Executed Date	Project Title	Project Description
10/01/2013	Creative Broadband Services Group Mission (CBS-GM): Establishing a Global Research, Demonstration and Utilisation partnership for next generation 3D Immersive Broadband-Enabled Services.	This group mission will secure interest and commitment to pursue the establishment of a global research partnership, commencing with a collaborative program to research & develop 3D platforms that demonstrate, utilise and commercialise immersive applications delivered across Broadband networks for services in Health, Education and Business Services. Uptake of Australian digital services will accelerate rapidly with the integration of a low cost, easy to use platform for the creation of 3D environments, buildings, spaces, gardens, museums, hospitals, showrooms, etc.
30/05/2013	Genetic Determination and Signal Transduction of Stress on Osteogenic Differentiation of Bone Marrow Stem Cells (BMSCs) and the Potential Clinical Application in Orthodontics (Project and Workshop)	This group mission will focus on ageing, one of the hottest topics in healthcare research recently. In oral health, it has been shown that ageing has strong correlation with periodontal diseases. With the development of Orthodontic techniques, more and more adults and aged people search for orthodontic interventions for the aesthetic improvement or space creation for dental implants. However, there is no effective treatment to control their periodontal disease before the starting of treatment. 1) A research workshop will be held to understanding the effects of osteogenic differentiation and expression of specific transcription factor of BMSCs induced under the inflammatory microenvironments and to provid evidences to control the periodontal diseases orthodontically; 2) A pilot research project will be carried out to determine the main signalling transduction pathway of the process via gene chips and to explore the mechanisms of bone remodelling induced by the orthodontic force.
28/08/2013	Determination of minimum optical and laser tracking data requirements for space debris	Researchers in Business supports the placement of researchers from universities or public research agencies into businesses where it is identified that such a placement would help to develop and implement a new idea with commercial potential.
23/12/2013	Novel chemical drug development against H. pylori infection using comparative genomics and computational drug design	This group mission will build a solid science and research collaboration between Sun Yat-sen University and the Marshall Centre for Infectious Diseases (UWA). It will set up a platform based on actual labs for visitor exchange of Australian and Chinese groups and achieve the innovative project goals. The group mission will specifically be used for Australian groups to travel and conduct research at Sun Yat-sen University. Achievements from this group mission will be published at international meetings and journals and further plan for joint research-related projects will also be conducted on this platform. A Marshall Centre Branch at South China could also be launched after the platform has been successfully set up. Dr Wei Lu has visited Sun Yat-sen University this year and held discussions with Professor Min Huang, Head of School of Pharmaceutical Sciences. Dedicated lab space has been confirmed and will be used to conduct laboratory work at Sun Yat-sen University.
24/03/2014	Australia-China Research Centre for Light Metals	The joint research centre will bring together world experts from industry and 1. Carry out impact-driven blue-sky research into the development of revolutionary, new light alloys and manufacturing processes for CO2 emission and energy reductions in transportation through weight savings, and component lifetime extension. 2. Enhance industry competitiveness by undertaking industry-relevant research and servicing their development needs through characterisation of their products and optimising their manufacturing processes through computer modelling. 3. Expand the high-value-add manufacturing capabilities in Australia and China via the underpinning of world-class research with new, close interactions with global endusers. 4. Establish Australia as a global destination for aerospace research and manufacture. 5. Create a platform for researchers from Australia and China to interact with each other, and with suppliers.
30/01/2015	Environmentally friendly Surfactants	The proposed project is to investigate several patented technologies which involve the synthesis of surfactants, in particular Gemini Surfactants.Gemini surfactants are described as a group of amphiphiles possessing, in sequence, a long hydrocarbon chain, an ionic group, a rigid spacer, a second ionic group and another hydrocarbon tail. Gemini surfactants are said to be about 3 orders of magnitude more efficient at reducing surface tension as they have remarkably low critical micelle concentration values and are considerably more surface-active than conventional surfactants of equivalent chain length. Gemini surfactants have good commercial utilization potential for many different and wide ranging industrial applications. The bi-layer structure of the Gemini surfactants makes it compatible with skin ceramides and provides skin barrier properties for use in pharmaceuticals and cosmetics. Known Gemini Surfactants have been prepared by long, complicated and non-cost-effective synthetic steps, therefore the main aim of this project is to synthesize various cost-effective Gemini surfactants. However, since lower amounts of Gemini surfactants are needed for a particular performance, cost-effectiveness may not stand in the way. Costly Gemini surfactants may, however, be used as additives to the conventional surfactants to enhance the surface-active properties. Proposed project deliverables: Synthesis of: - Surfactants for hydroliphlic wash-able paint - Surfactants for emulsion breaking - Surfactants for graphene based antimicrobial coatings. - Analytical data: surfactant concentration, 13CNMR,1HNMR, FTIR, Elemental analysis Testing data: -Contact angle measurements, micelle concentration, and performance as compared to the leading brands of washable paint. - Performance comparison against the leading brands of liquid detergents and other emulsion breaking products.- Antimicrobial properties, kill-zones, performance comparison against similar coatings
8/04/2015	Design and construction of a smart feed barge to service Petunas salmon farming operations in Macquarie Harbour	This project will form a vital step in Petunas expansion of fish farming operations. Petuna has recently made significant investments in developing our Macquarie Harbour infrastructure to support salmon production. The next project required to help meet the growing market demand for salmon, is the construction of a feed barge. Petuna will work with Haywards (Margate) to build a technologically advanced smart barge which will allow us to activate unused lease space and sustainably manage our stock through improvements in feed management, fish welfare and continued commitment to minimising environmental impacts. The total budget for this project is $2,379,471 (81% of the funds committed by Petuna) and once complete (June 2016), will result in a total of 19 new jobs (in addition to retaining 10 jobs during a 9 month construction phase). This project will generate employment on both the West and North coasts of Tasmania in addition to retention of jobs in the states South East.

27/04/2015	Fat Pig Kitchen will be a purpose built commercial kitchen, cooking school, and dining space on Fat Pig Farm in the Huon Valley, 45 minutes south of Hobart.	Fat Pig Kitchen (FPK) will be a purpose built commercial kitchen, licensed dairy, cooking school, and dining space on Fat Pig Farm in the Huon Valley, 45 mins south of Hobart. It will meet current visitor demand for a singular, hands-on farm experience; a truly local paddock-to-plate experience where visitors will learn about handling, growing, and cooking food, then eat it in the purpose-built, on-farm dining room. We will host farm tours and set menu lunches made with freshly harvested produce from the farm, including meat, honey, vegetables and milk from our heritage herds and orchard. We will also host workshops based around growing, handling, and cooking food, and sell produce locally and online from our farm and surrounding producers. FPK will be a hub where visitors can sample the best food in the Huon as well as a kicking off point to visit local cellar doors, cheeseries and restaurants.	
12/08/2015	Advanced Manufacturing Aerospace & Defence Project: developing new manufacturing capability for large and complex components for aerospace and defence applications	The project will involve the purchase and commissioning of advanced manufacturing equipment at APTs facility at Berwick. Equipment purchased include a DMG DMU 80 machining centre, an Okuma MB400HII Horizontal Machining Centre and tooling, a CMM Quality Assurance system and an Okuma 630 Machining Centre. The project will result in diversification of ATPs client base as well as growing overall sales by 44%, despite the expected decline in automotive component volumes. The project has both commercial and technical risks. APT has undertaken extensive consultation with both existing and potential customers in order to define emerging market opportunities in the defence and aerospace sectors. This has included discussions regarding specific product specification, design and quotation. Similarly APT has discussed machine capabilities, tooling, set up and software with leading equipment suppliers. APT has significant experience of similar projects using globally accredited suppliers.	
12/08/2015	Aerospace Manufacturing Centre of Excellence	Numetric have been selected by BAE Systems Australia as a key partner to support their advanced aerospace tail fin component manufacturing facility based in Adelaide, South Australia. In order to meet our new customers expectations, Numetric is required to establish an advanced aerospace manufacturing cell capable of supplying complex semi-finished titanium aerospace structures to exacting standards, on time and within budget. This program is expected to run for a minimum of twenty years.	
7/12/2015	Assessment of durability of polymer dispersed liquid crystal systems	The existing iGlass PDLC system has been shown to have strong market acceptance as a reliable technology for fast switching of glass from opaque to transparent on application of voltage. However the durability of the system in a range of operating environments was found to be limited by the photochemistry of the liquid crystal mixture coupled with the phase-separated structure of the polymer component. New formulations have now been developed through the first stage Research Connections project. This work needs to be extended to provide accurate information on the lifetime of the new PDLC formulations. Project activities will be: UV ageing will be undertaken under dry conditions in a Q-Sun accelerated ageing device using Xenon lamps for 3000h. Dry conditions will be used since the iGlass materials will not be subject to significant moisture fluctuations in-service as a result of the lamination and sealant systems used. Completely encapsulated and non-encapsulated samples of each PDLC generation to be tested will be examined. Eight samples per generation will be required for testing (4 encapsulated, 2 non-encapsulated and 2 non-encapsulated polymer matrix only). A maximum of 2 PDLC generations can be tested in this way due to space restrictions in the Q-Sun ageing device. Some non-encapsulated samples will be examined with and without UV filters to identify the effect of UV spectrum on the ageing of these materials. Half of the encapsulated samples will be switched on during the UV irradiation. Samples switched on during ageing will be compared to samples that are switched-off during ageing. Analysis of samples will be via non-destructive testing methods (visual and microscopic inspection, UV-Vis and NIR spectroscopy), with destructive testing (HPLC, FTIR) to assess chemical changes, and potential sites of failure.	
31/03/2016	Designing Hospitals for Team based Patient Care	This research proposal builds upon the 2015 research conducted by The University of Melbourne and HASSELL. A key finding was the lack of dedicated spaces (away from the patient beside) for hospital staff to conduct their work (communicating/sharing information; completing documentation/administrative tasks; problem solving; undertaking training and education, as well as social and rest spaces for staff inter-professional teamwork. Research Questions: What factors (amenable to spatial design) influence team-based care away from the patients bedside within hospital high acuity wards? What innovative spatial designs can facilitate the adoption, implementation and sustainability of team-based care away from the patients bedside within hospital high acuity wards? What influence do institutional support and working culture have on the interplay between innovative spatial designs and team-based care away from the patients bedside within hospital high acuity wards? What role and influence does social space (staff hubs, large or small, central or distributed) have on team communication and morale? These research questions will assist in addressing the proposed HASSELL Pre-Post Occupancy study of the Critical Treatment Hospital Hampshire, UK, which is currently in design: i.e., the research will enable the development of an Evaluation Plan, comprising of key evaluation questions; key evaluative success criteria; key evaluation approaches and key evaluation methods/data sources. In response to the research findings, HASSELL will seek to determine if hospital designs can adopt emerging spatial and managerial practices from other sectors (commercial, science and tertiary education) to address the issue of inadequate spaces for healthcare professionals to work, rest and learn in their workplace.	

6/04/2016	High velocity projectile system	In the current global strategic environment, there is a strong need for cost effective, advanced, precision defence capabilities. Very high velocity, self propelled, small to medium projectiles are of interest due to their armour piercing potential. The problem is that there are few propulsion systems capable of operating at the required high velocities. At Mach 5, the only practical choices available are rockets and scramjets. Scramjets have the advantage of not needing to carry oxidant, resulting in a higher specific impulse. There are a number of challenges associated with scramjets. Specifically, the fuel must be injected, mixed and burned within a very short timein order to develop useable net thrust. When considering the prospect of further scaling down a scamjet engine to the size of a small arms projectile, or even the size of typical artillery, the need for an innovative injection and combustion solution becomes critical. While this is an ambitious aim, Australia has leading expertise in the field at RMIT, University of Queensland and DST Group. Experience includes the joint Australia/US HIFiRE hypersonics program and the University of Queenslands SCRAMSPACE project. This includes development of the Quasi-Axisymmetric Scramjet, which is suitable for barrel launch, and has been shown to produce net thrust under certain flow conditions. Similar configurations were tested in a DARPA project and achieved Mach 7.1 for 25 mSec in free flight. However, this performance would need to be extended considerably to produce a practical system.	
22/06/2016	Integrated Subsystem Capability Development (ISCD) Project	Ferra Engineering is an advanced engineering company with a suite of capabilities to supply advanced systems to the global aerospace and defence industry. The ISCD project will transition Ferra toward defence systems development, including programmable logic control, electronics, software and smart weapon guidance technology to manufacture commercial quantities of complex subsystems for this industry. This builds on existing capabilities including production of aerospace assemblies and prototype quantities of subsystems. The project involves transformation in all business areas including technical, manufacturing and business management aspects. Ferra will develop capability to supply at global benchmarks in terms of quality and price, which are established by industry Primes. The capability is defined by production commencing at 20 weapons kits per month increasing to 120 kits per month within two years, with a 30% per unit cost reduction at the end of the ramp up phase.	
29/06/2016	Australian Subsurface Carbon Sequestration Simulator	Accurate simulation, forecasting, and monitoring of carbon dioxide behaviour is a prerequisite for safe and cost-effective subsurface CO2 abatement. Supporting the Australian clean coal and energy sectors in this quest, with tools and expertise that will boost productivity by transforming traditional discipline-separated sequential workflows, is the goal of this reservoir engineering - hydrogeophysics - simulation-guided engineering project. Via new multiphysics software integrating: 1) fine-grained parallel space-time adaptive injection simulation, 2) forecasting of the CO2-plume geophysical signature, 3) inverse analysis of the plume, and 4) simulation-driven design of injection and monitoring systems, we will improve subsurface knowledge and advance the understanding of Australias storage capacity. Demonstration and validation of this new carbon dioxide storage methodology will occur with datasets from Otway, Aquistore and a Chinese CCS site.	
29/06/2016	Aluminium alloy development for aerospace applications	This project aims at determining the optimal scandium and zirconium content and suitable thermo-mechanical processing route for extruded age-hardenable aluminium alloys. During the first part of the project, a combinatorial approach will be used to create extruded products with composition gradient. The combinatorial approach is the most efficient way for rapid alloy development as a range of compositions can be investigated from the one extruded product. The second part of the project will be focused on the optimisation of the thermo-mechanical treatment for a selected alloy composition. This study is performed on an Al-Cu model alloy. This system is often used for alloy development as it exhibits precipitation hardening (as all structural alloy). This model metallic system reduces the number of variables and will thus give an efficient way to observe the effect of scandium and zirconium content on texture and mechanical properties and to optimise the content of scandium and zirconium in extruded high performance aluminium alloys. The results will support the adoption of aluminium-scandium alloys in existing aerospace applications and allow commercialisation of Clean TeQ's scandium resource.	
16/09/2016	Indoor positioning using smartphone sensors	Indoor positioning using the unique magnetic field of the environment and an orientation free magnetometer is potentially a very cost effective and accurate alternative to other indoor positioning techniques. This project involves scientifically confirming the accuracy of the technology in an office environment, and comparing this accuracy to other more established techniques. This will enable Serraview to understand the true potential for the technology and guide further development. In this project, we aim to answer the following questions: What is the level of accuracy of this technology measured in cm for: - Open Plan Office - Indoor Open Space (e.g., lobby) - Retail Space (this is optional) What is the level of confidence of this accuracy? What is the maximum outlier distance when readings are inaccurate (i.e., histogram) How long does fingerprinting remain accurate (as the earth's magnetic field changes)? How long will it take to audit / can drones do the auditing automatically? How does this accuracy compare to existing low energy Bluetooth in the same environments? How does this compare in energy consumption compared to Bluetooth? How unique is the fingerprint for one location? - Is there a chance that this fingerprint exists elsewhere in the world? - Do we need to incorporate GPS to begin with? The indoor positioning system using magnetometer on smartphone works in two phases. We first site survey a space by collecting magnetometer readings from smartphone. All the magnetic field data and the floor map will be uploaded to a server which runs our algorithms. In the localisation phase, a users smartphone runs our client software which reads magnetometer readings, transfers the readings to the server for computing locations, and receives locations from the server and displays on the map in real time.	

6/02/2017	National Science Week at the Tanks: Science in the Tropics Rocks!	In 2017, Cairns will host National Science Week at the Tanks: Science in the Tropics Rocks! featuring three activities: 1) a Science-Art collaboration "Come and try!" space, which encourages people to interact directly with scientists and their research via an interactive platform; 2) Caf Scientifique: Why I became a scientist in the Tropics, featuring presentations from local researchers and postgraduate students to explore why they become scientists and providing a open forum for discussion with the general public; and 3) PechaKucha Night, selling science through stories. These events will bring together scientists, artists, musicians and the general public, both young and old, to explore and celebrate science in the Tropics.	
6/02/2017	Co-Lab: Science Meets Street Art	Co-Lab: Science Meets Street Art is a creative collaboration between street artists and young scientists that brings local science into the public space. Come down to Kingston Bus Depot to see how this blank wall is transformed into a hub for science-inspired art. All are welcome to watch these pieces evolve from 11am to 4pm as 10 Canberran street artists create works inspired by the research and discoveries of 10 local science PhD students and early-career researchers. The scientists involved will be on hand to answer questions. Visitors are encouraged to come and go throughout the day and enjoy the Science In Action festival nearby. This is a free, wheelchair accessible event.	
22/02/2017	Infinity and Beyond - 2018 Houston Space Camp: Engagement through STEM	Twelve physics students from Kyogle High School will travel to Houston Space Camp, USA to participate in a challenging 5 day camp centred around science, technology, engineering and mathematics (STEM). Combining classroom theory with cognitive and tactile tasks, students will participate in simulated astronaut training and real-world NASA experiences such as robotics, cryogenics, rocketry, scuba diving and Mars Habitat design. Students will go behind-the-scenes at NASA Johnson Space Center as well as tour of the Neutral Buoyancy Laboratory, the world s largest underwater training facility. Student will have the unique opportunity develop and improve critical thinking skills, fiscal responsibility, creativity and the drive to be successful.	
24/02/2017	U.S. Space Camp and Tour	Scouts WA has sponsored Joshua Sturrock, a Leeming Senior High School Science and Technology Academy student to travel to U.S. Space Camp at the Davison Centre for Space Exploration in Huntsville Alabama. The five day residential camp provides an in-depth exposure to the space program through participation in and use of simulators, lectures, and training exercises which are designed to promote science, engineering, aviation and exploration. The program immerses students in real-world applications of science, technology, engineering and math education and assists students to focus on university and career preparation. This experience will be invaluable for Josh as he aspires to and prepares for a career in the sciences.	
24/02/2017	INSPIRE, INNOVATE and INVENT - A STEM Enrichment Program	Ashbury Public School is sponsoring 61 students to participate in a year long STEM project being offered onsite at Canterbury Boys' High School. In 2017, Canterbury Boys High School is partnered the University of Sydney as a STEM Academy School. This STEM Science Engagement Activity will focus on the following curriculum outcomes: Stage 3 Earth and Space, Living World and Built Environments. There is also Stage 4 Physics and Mathematics outcomes for accelerated students. The STEM activity will culminate in a STEM Science Fair to be held at the completion of the project. Primarily this program will foster and excite the young science talent of the Inner-West of Sydney, broadening access to quality resources and experiences.	
10/03/2017	One Giant Leap USA Space Camp	Attendance of one student at One Giant Leap USA, which is running an exciting camp in the USA at world class astronomy centers. The students will visit Getty Museum, Californian Science Centre and the US Space and Rocket Centre. The students will also meet scientists from these fields of science as well as take on an enriching learning experience aimed at inspiring student to take up a career in science.	
13/03/2017	INSPIRE, INNOVATE, and INVENT in the INNER-WEST STEM project at CBHS	Canterbury Public School is sponsoring 37 students to participate in a yearlong STEM project being offered onsite at Canterbury Boys' High School. In 2017, Canterbury Boys' High School is partnered with the University of Sydney as a STEM Academy School. This STEM Science Engagement Activity will focus on the following curriculum outcomes: Stage 3 Earth and Space, Living World and Built Environments. There is also Stage 4 Physics and Mathematics outcomes for accelerated students. The STEM activity will also culminate in a STEM Science Fair to be held on completion of the project. Primarily, this project will foster and excite the young science talent across the Inner-West of Sydney, broadening access to quality resources and experiences.	
15/03/2017	Conrad Spirit of Innovation Challenge Summit	As finalists, we are amongst a select group of worldwide teams who have the unique opportunity to attend the 2017 Spirit of Innovation Summit at the NASA Kennedy Space Center Visitor Complex in Florida. The four categories of the competition are all STEM related - cyber-technology and security (our category), aerospace and aviation, medicine, and environment. Not only will we be able to achieve a high level of understanding and competence in our category, but we would also be talking to and collaborating with teams and experts int the other categories.	
3/04/2017	INSPIRE, INNOVATE and INVENT - A STEM ENRICHMENT PROJECT	Ashfield Public School is sponsoring 41 students to participate in a year-long STEM project being offered onsite at Canterbury Boys' High School. In 2017, Canterbury Boys High School is partnered with the University of Sydney as a STEM Academy School. This STEM Science Engagement Activity will focus on the following curriculum outcomes: Stage 3 Earth and Space, Living World and Built Environments. There is also Stage 4 Physics and Mathematics outcomes for accelerated students. The STEM activity will culminate in a STEM Science Fair to be held at the completion of the project. Primarily this program will foster and excite the young science talent of the Inner-West of Sydney, broadening access to quality resources and experiences.	

12/04/2017	The upgrading of processing facilities for Woodbridge Smokehouse.	The Woodbridge Smokehouse (WBSH) is a long established value adding seafood processing business operating for 12 plus years south of Hobart. Recently with the increased demand for its premium value added seafood products, the WBSH has seen an opportunity to update and expand its processing facilities to meet this growing demand. The proposed update and expansion will enable the smokehouse to meet this demand by overcoming its current throughput and processing bottlenecks within its facility. To achieve this end, and to enable its further growth and success, the project proposes to (1) purchase new fish slicing machinery (mechanising the slicing, skinning and packaging process); (2) incorporate a new dispatch and farm gate POS space at the smokehouse; and (3) increase staffing levels to meet and drive this demand. These three core changes will enable the smokehouse to operate to its fullest potential, increase current staffing levels and further drive the state economy.	
28/04/2017	The Agrarian Kitchen Eatery and Store	The Agrarian Kitchen is a farm-based cooking school offering paddock-to-plate experiences in a 19th century schoolhouse at Lachlan, in the Derwent Valley. The Agrarian Kitchen proposes to fit-out the historic Bronte Building in New Norfolks Willow Court precinct as an eatery, function space and retail store selling items that are either local, handmade, artisanal and which relate to the skills taught in The Agrarian Kitchen cooking experiences.	
2/05/2017	Entrepreneurial Thinking and Innovation Challenge-GLO@Logan	The GLO@Logan High School Entrepreneurial Innovation Challenge is a three day experiential STEM team challenge. Logan high school students will generate an innovative concept/solution and apply an entrepreneurial mindset to improve disability health and aged care in Australia using STEM skills. The students will generate innovative ideas, work with Industry mentors, learn the lean start-up approach, actively pursue ideas, engage in teamwork and network in a like-minded environment. They will have the opportunity to prototype their ideas at the GLO@Logan Innovation Maker Space using 3D printers, laser cutters, microprocessors and digital technology.	
11/05/2017	Students enrollment in the Advanced Space Academy program (USA)	Students enrolled in the Advanced Space Academy, held at The US Space and Rocket Centre, Huntsville, Alabama, are provided with a weeklong training program providing hands-on experience replicating the mental, emotional and physical challenges astronauts face. The program culminates in a simulated extended-duration space mission. Fields of study include Engineering, Aerospace and Space Technology. Both applicants have demonstrated a strong interest in aerospace and engineering, and have participating in a number of external STEM competitions, demonstrating both excellence and perseverance in achieving their goals. One candidate recently presented at the University of Sydney on a mind-controlled prosthetic hand project he helped develop.	
12/05/2017	International Space Settlement Design Competition (ISSDC)	The ISSDC, supported by NASA, recreates the experience of working on an aerospace company proposal. Teams envision space colonies in response to a RFP. 18 students from 6 Australian Schools have been selected to compete at the 2017 ISSDC following their success at the Australian semi-final. 12 international finalist teams qualify from regional contests to compete at NASA Kennedy Space Centre in Florida, with Aerospace engineers sharing their knowledge and experience in both engineering and management. Student engineers demonstrate creativity, technical competence, management skills, space environment knowledge, teamwork, and presentation techniques to conquer the problems inherent in siting and designing a Space Settlement.	
13/05/2017	Warrnambool East Primary School - Science Room Maker Space Project	The Warrnambool East Primary School Maker Space is a natural extension of our innovative Science program. As the 2014 winner of the Victorian Department of Education Innovation and Excellence Award the school is known for its focus on curiosity and creativity. The Maker Space encourages and allows for experimentation using a wider range of tools, materials and resources than was previously accessed through the Science program. As a regional school in Victoria our students need access to hands on learning in their own learning environment to enable them to have the same experiences and opportunities as for metropolitan school students.	
13/05/2017	Roslyn Rockets - Rocketing to Success	At Roslyn Primary School our 'Roslyn Rockets' are encouraged to think and create underpinned by our values of 'Respect, Optimism and Creativity'. With a new building space which includes our STEAM Corridor due to be opened mid 2017, the aim is to create a space that allows students to explore and create using design principles and applying problem solving and critical and creative thinking strategies. The school has previously invested in 'Little Bits' which students have thoroughly enjoyed exploring with, and these resources would be added to.	
15/05/2017	The 3D printing of luminaire light fixtures	LimeLite is seeking industrial design and engineering skills to advance prototype lighting products that Swinburne have created, using their 3D printing and additive manufacturing processes. The initial works by Swinburne created track mount luminaires with specialised heat sinks that work to draw heat away from the LEDs. Limelite are now seeking to combine optics with LED s for up to 8 different beam angles for architecturally designed spaces.	
16/05/2017	Advanced Manufacturing of high complexity, high value-add Inconel engine components.	BAE Systems Australia Limited is committed to the establishment of a major engine manufacturing capability and facility, servicing both defence and commercial aerospace and commercial markets. Bringing this new capability to Australia provides opportunities in manufacturing, assembly, and sustainment of major engines for Australian suppliers. The project will initially target medium to large sized complex machined mill turn Inconel components for delivery to Pratt and Whitney on the Joint Strike Fighter (JSF) F35 program on the purpose built (first of type in Australia) Starrag STC-1250-MIL-TURN.	
19/05/2017	Creating a Maker Space to be a Digital coding Hub	In 2017 Watsonia Primary School established a dedicated room for students to learn how to code and have timetabled weekly lessons for this purpose. We started this by using our existing older style laptops and invested in a single BeeBot for student use. We have visited Quantum Maths and Science Center on excursions and have been inspired by the equipment we used. In 2017 we intend to resource our Maker Space to include more BeeBots, Lego Robotics and Makey Makey equipment for use from Prep to year 6 to extend on our experience at Quantum. We want to ensure our students are using the current technology to develop and extend their Digital Learning.	

22/05/2017	Maker Space at the Chase	Berwick Chase Primary School endeavours to provide all its students with a wide range of engaging and meaningful learning experiences. We aim to expose our children to a range of skills and opportunities in which to prepare them for an ever changing future. To do this, we are currently preparing to open a Maker Space in which children will be able to explore and learn about concepts such as coding, algorithms and computational thinking. This new space will be used regularly by all classes during learning time, student leaders will use it during Code Club to teach others, and it will be open after school for passionate students to extend their skills further. Maker Space at the Chase will be the place to be!	
22/05/2017	Energy Maker Space	Greening Australia (GA) will run 6 Energy Maker workshops in two Energy Hubs & one mobile space aimed at experimentation and tinkering challenges with a range of technologies focussed on renewable energy. The Maker Space will use technical experts & engineers from TasNetworks, Sustainable Living Tasmania, Huonville Men's Shed and TASSAL, who will also fund engineer scholarships. Workshops on energy challenges will include energy auditing, bicycle-driven energy, biodigestors, wind turbines from waste materials, water turbines, solar technology &digital software. The Maker Space will be accessible to youth including those in regional locations through the mobile Maker Space.	
23/05/2017	Commercialisation of Laser-based Additive Manufacturing for Aerospace	The applicant is establishing a world-class capability in additive manufacturing (3D printing) of metal components primarily for aerospace and defence applications. The ability to print in metals allows large components to be made lighter, more quickly, with tremendous new design flexibility, requiring assembly of less components and with superior durability compared to cast/forged components. Accelerating Commercialisation support will be used to help Amaero Engineering commercialise this process by achieving a fully qualified manufacturing process to supply and develop global markets.	
24/05/2017	WeDo Robotics. Create, Problerm solve and code.	Whitfield District Primary School will have a creative space established for students to design, make, proram and problem solve - using WeDo Robotics - Lego and curriculum resources. In addition to formal lessons, the resource will be availble for student use in the library.	
24/05/2017	Eumundi Maker Space	The Maker Space project will enable students to have the opportunity to investigate, experiment, explore, organise data logically, break down problems into parts, interpret patterns and models and design and implement algorithms. These are critical 21st Century skills for knowledge workers and can be transferred and applied to a range of situations and experiences. The expected outcomes of the program can be understood in at least two ways, firstly in the practical and usable solutions that students create and secondly in the skills and process that are developed during the learning process.	
24/05/2017	STEAM Creativity and Innovation at Turner School	Turner school has been a leader of innovation in STEM for many years now. We have built this reputation in a knowledge rich environment without the physical resourcing to back it up. The grant and with it the establishment of the Maker Space would provide a zone where all students can create, innovate and explore. In 2017 Turner School has begun the implementation of a new five year strategic plan. A core focus of the plan is to equip all students with the skills and dispositions to be successful learners in the 21st Century. The Maker Space will allow further growth in developing these skills and dispositions, whilst at the same time meeting the requirements of the Digital Technologies Curriculum.	
25/05/2017	Harrington Technology Hub	Creating a technology hub MAKER SPACE in our current Library, where the basics of coding, circuits and construction is develped to support CLassroom hubs where robotics and STEM Prpject based learning will take place and grow in development and expectation from Kindergarten to Year 6.	
25/05/2017	Peregian Springs State School - Making for today and for tomorrow!	Our Maker Space sits in the cetre of the school in the Resource Centre and is accessible to all students and teachers. It houses a variety of materials including digital technologies such as drones, computers, 3D printers, projectors and iPads, tools such as drills, glue guns and measuring instruments, and materials for students to experiment with making and design. The resources of the library are close at hand which gives students access to staff and print materials for research and assistance. The space is learningful, messy and exciting and students and staff can't wait to get in there every day. The space is staffed for part of the week and used by all students and staff.	
25/05/2017	TIDE- Tinker, Investigate, Discover, Explore	Our Maker Space will be an area which encourages children to Tinker, Investigate,Discover and Explore with a variety of materials.It will encourage team work and creativity for all students from F-6 to enjoy and investigate.It will provide hands on learning opportunities for all students to have a go and reassess their project if they don't succed the first time allowing them to take risks with their learning.The Maker Space will be availble at lunchtimes as well as classtimes so that students that are highly engaged can work on their project not just in a designated period but also wor with a variety of cross age groupings.	
25/05/2017	Students attend One Giant Leap Australia's Space Camp USA Tour.	Barnier P.S. is facilitating two primary school students participation in One Giant Leap Australia s Space Camp USA Tour. Students attend Space Camp in Huntsville, Alabama to train like real astronauts. Students build and launch model rockets, experience astronaut simulators and learn about the past, present and future of space exploration. Students are taught real-world application of science, technology, engineering and maths. The sponsorship allows two enthusiastic Australian students to meet like-minded students from around the country and the world. As students cooperate in team activities, they receive an invaluable opportunity to grow in confidence and resilience whilst being inspired to study and work in STEM fields in the future.	

26/05/2017	Full STEAM Ahead - Creating a Makerspace at Coomera Rivers	Coomera Rivers State School is working towards the transformation of our Discovery Centre (STEAM classroom) into an innovative collaborative workspace for students from Prep to Year 6 to make, learn, explore and share. Students will be able to develop a maker mindset and use the space during STEAM lessons and lunchtime clubs to engage in activities like construction & engineering, inventing with electronics, robotics and arts. A makerspace will provide hands on learning, help critical thinking skills and even boost self-confidence while developing 21st century skills in the fields of science, technology, engineering, arts and maths. Our makerspace will also be used as an open classroom for visitors to tour on our Digital Pedagogy Open Days.	
26/05/2017	Further improvements to the Maker space "Discovery Centre"	Clayton North Primary School would like to apply for a maker space grant. The School has already identified and developed the Maker Space as a school Discovery Centre which is a space designed to foster critical thinking, collaboration and creativity. This area also has a planetarium, 3D printing, makey makey kits, robotics and LEGO mindstorms . The school has invested significant funding of its own but not through government grants. The school has appointed a full time technology teacher to this space to develop its space and to ensure that all aspects of STEM or in our case STEAM are integrated into classroom activities. The school is also a member of the FISO (Framework for Improving Student Outcom	
26/05/2017	Elwood Primary School Information Learning Hub MakerSpace	The Elwood Primary Information Learning Hub MakerSpace is a permanent 3D technologies creation/fabrication space inside our Information Learning Hub. The use of these technologies will be driven by the creation of a school-wide plan for the inclusion of 3D printing technologies in a STEAM focussed setting. 3D technologies facilitate opportunities for students to create digital solutions by defining, designing, implementing, evaluating, collaborating and managing. Through this process curiosity, confidence, persistence, innovation, creativity and cooperation are fostered.	
26/05/2017	Establishing a makerspace for 3D design and printing	We wish to establish a makerspace to enable our Foundation to year 6 students to develop and apply STEM based skills using The Makers Empire 3D Printing Learning Program. The 3D printing technology is supported with a learning platform that gives students the skills and confidence to explore this emerging technology. We aim to provide authentic opportunities for students to: Design solutions to real-world problems and ideate their entrepreneurial and innovative ideas. Foster critical and creative thinking skills through design processes Engage in problem-based inquiry learning Develop practical skills	
26/05/2017	Southy's Tech Experimental Maker Centre (S.T.E.M. Centre)	Our goal is to establish a permanent maker space that will embed STEM into our curriculum; providing students will high-level STEM skills and knowledge through engaging and varied experiences. Our school is passionate about science and we want to be at the forefront of Australia's STEM educators.	
26/05/2017	Rescue our Reef	Keppel Sands State School s Maker Space will be a collaborative learning hub where students can investigate, conduct experiments, brainstorm, design, engineer and create solutions to world problems. It will encompass a contemporary desk featuring a writable surface for brainstorming. The Maker Space will be a problem based learning area that will focus on threats to our world. In 2017 students will use the Maker Space to investigate the threats to our Reef, through Science, Technology, Engineering and Mathematics. Students will investigate and design solutions including a prototype vehicle/robot using Lego Mindstorms, coded through using ipads. Student portfolios of Maker Space Investigations and Designs will be created on ipads.	
29/05/2017	Establishment of a Tinker room that will serve as a design and maker space	We are establishing a Tinker Room to be accessed by all students during break times. We have also started to develop a STEM program to be implemented across the school. The Tinker Room will also serve as a Design and make Space. We have begun a professional learning package for all staff to undertake throughout this year and have made STEM an integral component of our school vision. These strategies will be the first steps towards that.	
29/05/2017	South Yarra Primary School: Permanent, but Portable, Maker Space	The aim of SYPS s Maker Space is to foster the application of STEM learning through innovation. A room of consumables and technology along with a set of teacher boxes, this permanent but also portable space students access to resources and experiences. Along with a lunchtime club for an enrichment of STEM-related experiences, this allows teachers to bring tinkering and hands-on problem-solving into their own classrooms. Developing these skills and passions at an early age gives our students the tools they need to face, and positively contribute to, their own futures.	
29/05/2017	Dream, Wonder, Inquire, Experiment & Making Place	At the geographical centre / heart of the school, the school library is used for before school activities, class-based learning experiences, recess & lunch time clubs and events and after school care. Transforming the school Library to include 'makerspace' zones and resources will support engagement with STEM based activities and experiences for students throughout the school day and beyond. Construction and making provocations will be provided for students to engage with before and after school, including Out of School Hours Care, class-based activities and learning will take place in the makerspace during the school day. Recess and lunch times the space will provide the resources and space for student play based tinkering and activities.	
30/05/2017	Cordalba Maker Space	Cordalba State School is a small rural school in Queensland. Students come from a wide variety of family backgrounds including - rural industries, farming, small crops. Developing a Maker Space focused on technology at the school would allow students to develop their skills in areas that they would not normally have an opportunity to be exposed to. Using technology such as computers, 3D printer and design programs would give our students real world experiences in the one space.	

30/05/2017	Robotics - The Beachmere Way	The space we have allocated is a classroom size however our school does not have the financial capacity to provide a maker space. With this grant we will be able to make an interactive, collaborative and design fuelled centre - allowing students flexible learning spaces to work on robotics programming with EV3 & Wedo2.0 and Bee Bots, catering for all levels of STEM learning and progression. This space will provide the inspiration, physical work space and tools (robots and programming mats etc) to prepare robotics competition groups, host robotics classes (currently year 1-4), robotics extension classes (currently year 5-6) and allow for student driven, creative STEM experimentation/design.	
30/05/2017	Sandringham Primary School (SPS) Community Library & Innovation Centre	In 2017, SPS Library will be updated to include a makerspace & be re-named our Community Library & Innovation Centre (C.L.I.C.) to reflect this exciting new development. Our students must continue to be future ready & learn in deep, authentic, personalised & purposeful ways, solving real-world challenges. Our C.L.I.C. will enhance opportunities for deeper learning by combining the richness of literature, 21st century literacies, STEM/STEAM, research & making. This will allow students to be highly engaged as innovators who research, design & make plugged & unplugged products that serve a specific purpose via access to contemporary learning resources including digital technologies to complement the new Victorian Curriculum.	
30/05/2017	Create a Maker Space - for coding, 3D printing, woodwork and Art	Our school would like to create a dedicated space as a Maker Space for the students to use in STEM sessions. The space is currently an Art room, however it is very large and has the potential for multipurpose usage. We would like to focus on furthering opportunities for coding and 3D printing with our students. Also more hands on opportunities in a workshop environment - to furter the opportunities the students have in creating, with a vareity of materials to meet challenges.	
30/05/2017	St Paul's Catholic Primary School Maker Space Project	The St Paul's Catholic Primary School Maker Space is a space for students to explore, collaborate, investigate, take risks, design, create and become our future innovators of the future. This space will integrate across all subject areas and be sued across all levels of the school.	
30/05/2017	Scotch College Junior School FabLab	Known as the "Fab-Lab", this cutting-edge space is designed to engage our boys in "STEM" (Science, Technology, Engineering & Mathematics) based initiatives which enable them to be creators in an environment that nurtures practical and hands-on learning. Promoting collaboration and innovation between students, making almost anything is possible with a range of technologies. The boys will truly be a part of the global education experience.	
30/05/2017	STEAM Leadership Program and Student Centred Learning Lounge	The STEAM Leadership Program (Science Technology Engineering Art Mathematics) and associated Maker Space (Student Centred Learning Lounge or SCuLL, promotes large scale access and participation of ALL students to previously restricted digital literacy (coding) and STEM (robotics) programs. The teaching of code and robotics in the Maker Space is conducted by the elected student STEAM Leaders and other student experts with the teacher acting as a facilitator. The program is an innovation on existing programs as it is designed to increase student engagement and participation in STEM by providing large scale ACCESS to previously restricted knowledge and resources via a Student Centred Learning Lounge. The learning lounge is for students	
30/05/2017	Maker Space - Montville State School	Our Maker Space will be a place where students can come together to use, and learn to use materials as well as develop creative projects. It will bring our current resources to one place for all the school to use.	
30/05/2017	Minden SS Maker Space	To help in the establishment of an area where students from Minden SS can come and experiment, play, design, fix something and create with a wide variety of materials ranging from electronics to computing to creative art type activities.	
30/05/2017	Bulleen Heights School Maker Space.	This maker space is specifically for children with Autism Spectrum Disorder (ASD) to explore create and learn. The space will be used to provide students with a range of materials and technologies to support individualised projects and store them securely while in the development phase. Both students and teachers will be supported as collaborative learners by a dedicated ICT coach and Leading Teacher. They will be provided with guidance as they work through ideas, enhance creativity and develop STEAM skills. Projects may include anything from designing and making and coding robots; planning, writing and building props to use in greenscreen clips for a movie competition; or, making a marble race to be used outside.	
30/05/2017	Kedron State School ENGINE ROOM	The Kedron State School ENGINE ROOM is a fluid and dynamic space that will be resourced with both technical, scientific, mathematical and Arts based resources that enable our young students to explore and navigate the endless potentials of the STEAM curricula space. looked with the philosophy of our school - Connecting every learner, everyday for success. This learning environment that will be designed to cater for the ever-changing interests of our students encourages the open ended and anylitical thinking skills that the contemporary curriculum and future learning demands of today require in successful students. The ENGINE ROOM is the place in our school where the 'brains trust' and 'thinking tank' merge to create powerful experiences.	
30/05/2017	Mount Stromlo MakerSpace	The Mount Stromlo High School MakerSpace will be a centre for students, staff and the community to challenge their thinking, problem solving skills, resilience and ability to try new things. Our MakerSpace will include work stations for robotics, coding, digital fine arts, upcycling, a wet lab for experiments, electronics and a micro manufacturing and fabrication area. Staff will provide guided workshops, embed activities into curriculum units and a makerspace club will be run during break times and after school that will also be open to local primary school students.	

30/05/2017	The Co-Creative Process Applied to Learning Environment Design	The research program that we want to run with WSU has three elements to it and will involve 2 @ honours students, a PhD supervisor and Sebel's Director of Learning Environment Research. The first element is to conduct research, test out ideas and validate our theories on how students and teachers can improve learning outcomes and student engagement within modern collaborative classrooms. The second element of the research enquiry is to understand how to create the required dynamics in individual learning space designs which, by our theory is affected by culture, personality (teacher & students) and pedagogy. These three variables require the development of a sophisticated process for personalised learning space design, which will then act as guide to Sebel and to the universities and schools that want to embrace Modern Learning Environments. The third element is that these classrooms will need new products developed for them which must be of a mass-produced but personalised.	
31/05/2017	EDIT - Explore, Discover, Investigate, Tinker	Our Maker Space will be an area which encourages children to Explore, Discover, Investigate and Tinker with different materials. Creativity and collaboration will be encouraged, with cross age groups working together. Designing will also be a focus where children can resolve problems and produce real life articles which serve a purpose, adjust their designs through trial and error, and make appropriate changes to improve their product. The Maker space will be used daily during lunchtimes where any child can access the space, as well as timetabled class times. This will allow flexibility for students to continue their projects, rather than having to wait until their next scheduled class time!	
31/05/2017	STEM Specialist Initiative - Makerspace Magic	To assist in supporting our approach to Project Based Learning and increasing participation rates for students undertaking Science (focus on female students in Science) as a school we have allocated STEM as a specialist subject in 2017 and beyond. We have had a high level of success with PBL and this has resulted in improved results within the school and STEM will assist students in developing their Critical and Creative Thinking Skills. Our Makerspace will be set up within a classroom that has a designated Technology, Design and working area. We aim to implement a portable aspect to our makerspace that can incorporate lunchtime activities or classroom based challenges. All students across the school will access our Makerspace area.	
1/06/2017	Knowing and Growing Maker Space	The "Knowing and Growing Maker Space" will be a dedicated classroom. Students will participate in a range of activities with changing and flexible educational goals and creative purposes. Children will come together to use, and learn to use materials as well as develop creative projects. This will facilitate informal learning opportunities where connections between home, school, and community are enabled and encouraged. It will promote learning through play with an emphasis on senior students teaching and guiding junior students. It will focus on developing a culture of creating as opposed to consuming with collaborative learning where everyone pools their skills and knowledge and share in the tasks of teaching and learning.	
1/06/2017	Equipment and Resourcing for the Sophia Centre for Innovation	The College has designated a newly refurbished space as The Sophia Centre for Innovation, taking the title from the Book of Wisdom, and creating an environment for creation, creativity, design and expression. Our application seeks to equip the centre with relevant resources to enable best use of the learning space and to focus on a constructivist pedagogy as this is what modern learning should look like: we seek to enable purchase of hardware such as 3D printers, laser cutters, electronics gear, craft equipment, computers.	
1/06/2017	STEM@ Mount Carmel Catholic College Makerspace	The STEM@MCCC Makerspace will aim to provide a broad range of up to date and innovative robotic, aeronautical, astronomical, scientific and engineering focused tools and equipment to enhance the learning of students in STEM. The maker space will be designed with the intention of lifelong learning to challenge students' thinking and build skills that can be extended beyond their secondary education.	
1/06/2017	Lanyon High School STEM Space	The goal of the Lanyon High STEM Space is to provide a space for STEM related activities to be completed within the school. Maths, Science, and Digital Technology staff will be involved in embedding the skills of problem solving, critical thinking, analysis, team building and group work into a cross curricula program that is sustained long term.	
2/06/2017	Makerspace: Critical thinking and innovation skills	Grant funding will assist the school's Maker space to further develop critical thinking skills and inspire innovation and grit.one lunch per week as well as one morning before school as well as offering free-making and group projects. These projects will include 3D printing, robotics and electronics and will grow to incorporate the neighbouring primary students in joint secondary and primary activities building a culture of STEM thinking within the school.	
2/06/2017	St Aloysius - BICOASTAL: Building, Investigation & Construction Maker Space	Our maker space is situated in a secure, covered outdoor space which provides opportunity for students to make noise and mess! It is primarily a construction space where students will bring to life their construction solutions to the problems posed by 'real world' investigations. Expert parent and grandparent school community members will be encouraged to participate in instructing and mentoring students in developing technical and physical construction skills alongside our teacher leader. Activities carried out in our maker space are not limited by curriculum area, age or year level or skill level - all students will have the opportunity to participate at their own level of ability and expertise.	
2/06/2017	Orange Christian School - Digital MakerSpace	This year, we are establishing a MakerSpace to provide a range of 'maker' activities for both our primary and secondary students. Initial activities and programs with 'low tech' challenges and projects have been piloted, and have been both well-attended and successful in maintaining student engagement. The next stage is to equip the new MakerSpace with a range of resources that will allow both primary and secondary students to learn and apply knowledge and skills related to digital technologies. Challenges and projects will relate to coding, programmable electronics, digital control systems and computer-assisted manufacturing (CAM).	
2/06/2017	Maker Your Future	The 'Maker Your Future' space will provide the students at The Ponds High School with resources to realise their projects.	

5/06/2017	Embedding interdisciplinary learning and teaching through makerspaces	Mullauna Secondary College has a rich history of hands on making as it was born from the amalgamation of a technical and a high school. To develop critical and creative thinking capabilities, problem solving, collaboration and other 21st century skills we have commenced building a purpose built makerspace in a former automotive workshop. With a newly appointed leading teacher for Interdisciplinary learning, the college aims to embed authentic learning opportunities in STEM across all learning disciplines. Staff will be trained in the use of technologies including robotics, programming, 3D printing and effective making and tinkering along with support and direction to change teaching practice to incorporate interdisciplinary STEM projects.	
5/06/2017	Bowral High School Maker Space	The maker space will be aligned to a fabrication style maker space space with the inclusion of 3D printers, CNC routers and laser cutters and computer packages to enable their use. It will contain a variety of other small hand tools and also be located close to established timber, metal and textile rooms allow easy access to larger specific equipment if needed. The room will be used to inspire students to innovate, tinker and explore both the design process and scientific method to produce creative solutions to real world problems.	
5/06/2017	Avondale School Primary Maker space	We will be creating a space where students from K-6 can come and explore, create and innovate. The space will be available during lunch times for guided and independent discovery, as well as being available to be booked and used by class teachers and groups. Weekly STEM lessons will be held for students in K-2.	
5/06/2017	St Patrick's Maker Space & Innovation Centre	St Patrick's Maker Space and Innovation Centre is located in the St Patrick's school library and is an exciting learning environment available to all students from Prep - Year 6. This space is for students and their teachers to create, design and experiment with innovative resources including 3D printers, drones, robotics, outdoor and indoor building and creation materials and Green Screen movie making among many others. Teachers engage their students in whole class learning activities in our Maker Space and encourage learners to develop creativity, problem solving and STEM skills. The outdoor elements of the space provide enhanced opportunities for students to engage in STEM concepts outdoors with natural materials.	
5/06/2017	Lithgow High School - iSTEM	The space will be a small inventors workshop within a classroom. The space will be used by students studying STEM course's and students competing in STEM competitions to design, build, experiment with robotics projects. It will have the tools and materials readily available to enable robotic and engineering concepts to be implemented into practical applications. It will cater for both beginner and experienced engineering enthusiasts in Yr7 to Yr12 to learn about computer programming of mechatronic and robotic systems.	
5/06/2017	Buddina State School - STEAM Train	Choo choo! The STEAM train team have been working in classrooms across the school every Thursday and are excited to turn classroom spaces into their very own 'maker space' for the day. Each class has a specialist teacher for 1hr/2hr rotations in the areas of Science, Technology, Engineering, Arts and Maths. Each space and teacher allows for students to play, discover and learn through hands on engaging environments. The students rotate around to each classroom space for the day taking part in the specialist teachers lessons problem solving and creating. This is an exciting innovative initiative for all students that we started in 2017. Sparks are set to fly and continue students love for learning in STEAM subjects.	
5/06/2017	Knox Park Primary School - Robotics Maker Space	The Knox Park Primary School Robotics Maker Space will complement our current commitment to STEM. We have developed an independent STEM room where our students currently participate in weekly Science and Technology activities. Our dedicated Robotics Maker Space will be a place where children from across the school will experience new forms of engagement through meaningful play and experimentation with robotics and programming. The learning will be relevant to students identities and interests and they will be provided with opportunities to create using a variety of media, tools and practices.	
5/06/2017	PCW Maker Space Project	The aim of the project is to * Encourage young women to explore STEM as a means of solving problems in fun and creative ways * Empower young women to see the potential for future careers in STEM related fields Increase digital literacy * Foster a sense of play, and experiential learning Introduce digital technologies across a range of curriculum areas * Provide a space for staff and student collaboration Foster a sense of curiosity, confidence, persistence, innovation, creativity and cooperation * Create digital solutions by defining, designing, implementing, evaluating collaborating and managing * Helping young women to see the cross curricular links between Science, Technology, Engineering and Mathematics	
5/06/2017	Golden Beach State School Makerspace	The Makerspace will be a hub for STEM related activities and projects. The space will provide opportunities for children from Prep to Year Six to design, create and tinker with a range of existing and emerging technologies. Through a combination of competitions, challenges and collaborative projects and opportunities our students will be encouraged to collaborate and experiment with creating solutions to problems imagined or real which may become part of our world in the future.	
5/06/2017	Mt Tarampa STEM Project	The Maker Space at Mt Tarampa State School will offer students an insight into the world of technology and robotics. Children will be involved in activities that require them to design and print 3D objects for a particular purpose. They will also be involved in different forms of coding to provide instructions to a variety of robots. This space will challenge the minds of the students by providing tasks that will require them to think outside the box.	
5/06/2017	Maker Education for our students future	Woodford's Maker space will provide students with an opportunity to tinker and learn through hands on learning. The Maker Space will include specialist equipment for the students to use that could only be afforded with the generous support of external funding. The space will include opportunities for all students to learn STEM skills such as Robotics, Coding and Reverse Engineering. Students and teachers working in the Maker Space will engage in deep learning through creativity, communication, collaboration, citizenship, critical thinking, and character. Some of the specific maker equipment will include programmable robots/drones, electronical plug'n play kits and numerous other construction/manipulative building materials.	

5/06/2017	Trinity Christian School - Maker Space	The TCS Makerspace will be located in a central location in the K-12 library where students work on self-guided projects using the tools and materials of their choice. The space will provide a variety of materials related to STEAM. This will include art and craft items and ICT equipment. I plan to utilise specialist skills amongst the staff to run session for interested children presenting particular skills.	
5/06/2017	The Knox School - STEAMING ahead	The STEAM room will be a cross-curricular multi-disciplinary space. It will facilitate design, experimentation and implementation across a range of integrated subjects, inspiring and engaging students throughout the junior school. Innovative, custom-developed furniture will be a cornerstone of its functionality. For this, the Knox School students will be involved in the design and manufacturing process in collaboration with RMIT Industrial Design. This would give them exposure to principles, practices and technologies - from conception to manufacture. After the initial brainstorm, with their mentors, the students would be involved in the prototyping and fabrication of their ideas first hand.	
5/06/2017	Space STEM Club - Central West NSW	Space STEM club is located in the Central West NSW, a programmed event + workshops related to STEM regionally, involving astronomy, agriculture, fossil identification, land, soil and waterways, lead by industry professionals from the DPI, OE&H, Astronomers, Architects, Designers, Doctors and local Scientists. Space STEM club will facilitate workshops for primary and secondary students demonstrated by 3D printing, microscopes, and telescopes. The maker space allocated for this project is the Age of Fishes Museum in Canowindra, NSW. The Cowra Cabonne Science Hub supported through Inspiring Australia. Councils and local stakeholders will assist with facilitation and programming of these events.	
5/06/2017	International Space Settlement Design Competition (ISSDC)	The ISSDC, supported by NASA, recreates the experience of working on an aerospace company proposal. Teams envision space colonies in response to a RFP. 18 students from 6 Australian Schools have been selected to compete at the 2017 ISSDC following their success at the Australian semi-final. 12 international finalist teams qualify from regional contests to compete at NASA Kennedy Space Centre in Florida, with Aerospace engineers sharing their knowledge and experience in both engineering and management. Student engineers demonstrate creativity, technical competence, management skills, space environment knowledge, teamwork, and presentation techniques to conquer the problems inherent in siting and designing a Space Settlement.	
6/06/2017	Maker Space Your Future	Sacred Heart's 'Makerspace Your Future' will allow students in our school to experiment, invent, create and collaborate while learning valuable skills for their future. Students will be given opportunities to master their understanding through problem solving and critical thinking while having a lot of fun!!! Many of our students have a very vivid imagination but in a busy curriculum, they can never fully explore their brain's full potential. Through providing them with a makerspace, this will allow them to expand their thinking beyond the 'typical' classroom setting.	
6/06/2017	Barham High School Maker Space	The Barham High School's maker space will allow the students a place to gather and create, experiment, modify, explore, discover and innovate solutions using a variety of tools and materials. It will extend learning and develop skills for 21st Century learners to assist them with creativity, critical thinking, communication and collaboration.	
6/06/2017	STEM HUB Where divergent thinking takes place.	The maker space will be a STEM Hub where solutions are found to problems that are yet to exist, with a focus on Science, Technology, Engineering and Mathematics. The makerspace established will allow students to learn formally and informally using both high-tech and low-tech materials in a formal and informal basis. Formally - in dedicated STEM EXCEL classes. The PBL tasks provided build the students competencies and interest and align with the outcomes and achievement standards of Australian Curriculum in the core areas of English, Mathematics, Science and Humanities. Informally - on a drop in basis where student thinking can move in diverging directions and the outcomes lead to novel ideas and identify solutions to problems.	
6/06/2017	Tallangatta Primary School STEM Club and Maker Space	Our STEM Club and Maker Space will support the implementation of the Science, Technology, Design and Digital Curriculums and allow students to think critically and creatively, and experience 21st century learning. They will be provided with experiences to develop their creativity by using 21st century technology and tools to design and create. Students will be given the opportunity to actually see their ideas come to life via robotics and 3D printers; and extend the work we have already been doing in the area of STEM education. With hands on access it will enable them to think about and see where technology can take and lead them into the future!	
6/06/2017	Merbein P-10 College - Step into STEM	Merbein's Step into STEM space will be housed in the new technology building. This space will welcome students from Year Prep to Year 10. Students of all ages will be able to investigate and explore with a range of materials and tools specifically designed to allow students to develop the skills of coding and design processes. As this space will be available for all ages, students will be able to access all STEM equipment and STEM projects will allow for multiple entry and exit points.	
6/06/2017	Robot Mania - Providing STEM activities for Primary students	This project will enable various groups of students to participate in a range of STEM activities. Many of these activities will occur at lunch times. One group will go on to compete at the First Lego League Competition at Swinburne University which is a STEM based activity. The space will be a portable one - sometimes in the school Library at lunch times and also in the Year 5-6 hub. Students will showcase their work to other students throughout the school and to families during Science Week and also during our Family Maths Night.	
6/06/2017	Clermont SHS Makerspace	Clermont SHS offers STEM as a subject in years 7, 9 and 10. Part of these subjects include an individual project where students create a solution to a individual, school or community issue of their choosing. To broaden the opportunity to explore their chosen issue we have found many students are looking to build a prototype product solution. To allow this to happen we have been accessing our manual arts facilities, however these are set up for wood and metalwork and are better suited to senior students. Our application is to source some of the more specialist tools that will allow all students (juniors especially) a broader range of options when developing/designing their solutions.	

6/06/2017	Makerspace for Agricultural Technology in the Community of Hawkesdale	The Makerspace for Agricultural Technology in the Community of Hawkesdale (MATCH) will build on the existing resources of Hawkesdale P12 College to create opportunities for students and community members to meet and work together. By inviting parents, retired tradespeople, farmers and other members of our rural community to share their various expertise with each other and our students, we will provide an environment where traditional skills are combined with new materials and technologies and youthful innovation. This project will enhance our relationships with the community while providing opportunities for rich, authentic, hands-on learning.	
6/06/2017	Woombye School Maker Space	Our maker space project will invite students to explore, share and invent ideas. It will be a space where students will work together to problem solve and make things happen. Our focus is on the Engineering aspect of STEM. Children will be involved in student directed activities that provide the opportunity to explore methods of construction. We will provide students with access to tools, materials and equipment that will encourage them to deconstruct, design, create and innovate. Students will work with everyday materials as well as more specialised construction materials to develop a Design Thinking mindset. They will be encouraged to record and collaborate on projects, allowing them to learn through building and sharing with peers.	
7/06/2017	St Joseph's College Lochinvar - STEM Lifts Off at Lochinvar!	St Joseph's College Lochinvar will create a transportable Maker Space in the STEM room. The Maker Space will include 2 additional 3D printers enabling students in STEM to have hands on access to the technology.	
7/06/2017	CreatIon of STOPS (Science Technology Opportunities for Problem Solving) Maker Space	The STOPS program will operate in our school library where a maker space will be provided permanently for our students to come in at class and lunch times to investigate, build, develop plans, and then build models controlled with Coding. Initially interested students will be offered daily lessons based on Coding, self-exploration and problem solving. The learning from the STOPS program will be taken to the rest of the school community through assemblies, school facebook and twitter accounts, as well as local media sources. This should ensure widespread student interest whereby year levels will take on the STOPS program.	
7/06/2017	MGHS Makerspace	Our school makerspace will aim to create, encourage and support non-curricular, student-driven, independent explorations. Makerspaces provide access to physical resources typically regarded as materials for crafting, engineering, design, robotics, or media. They encourage blending these specialties in the service of learning any academic or traditionally non-academic disciplines.	
7/06/2017	Callaghan College Wallsend STEM Enrichment Room	Callaghan College Wallsend (CCWC) will establish a permanent maker space that will be timetabled for students engaged in the range of STEM electives at the school. CCWC will also open this room during certain times to allows access to students across the school who wish to investigate or explore STEM initiatives in their own time. The space will reflect the needs of a range of STEM activities, from the iSTEM course through to Lego Robotics. The grant from the Australian Government will allow us to create a maker space with cutting edge technologies which should grow the STEM culture that already exists within the school. This grant will be one of the final pieces in the puzzle to create a truly 21st Century learning space.	
7/06/2017	Lakes Grammar, An Anglican School Primary Maker Space	We will be creating a space where students from K-6 can come and explore, create and innovate. The space will be available during lunch times for guided and independent discovery, as well as being available to be booked and used by class teachers and groups. Weekly STEM lessons will be offered/held for students in K-2 and 3-6.	
7/06/2017	Mueller College - Enabling students to create their futures	Mueller College maker space will enable students to explore challenge-based learning environments focused around the design and development of IoT (internet of things) prototyping and product evolution in a STEAM setting. Students will encounter scenarios and workshops that, at a lower primary level, focus on basic tinkering of shapes and designs with 3D printers and creating circuits that respond to the environment, whilst at upper primary, amalgamate these into purposeful community-driven projects. This might include water-quality sensors for our local creek for example. The maker space will cover tactile engineering problem-solving and digital solutions through coding linked to the 3D-printed prototypes and electrical circuits students produce.	
7/06/2017	Hands-On with STEM	As a College in its sixth year, we are committed to leading the way with innovation and best practice. At Surf Coast Secondary College, use of digital technologies has always been integral to leveraging learning, and integrated into all subject areas. Currently, there is access to technologies such as 3D printers in learning spaces that allow students to make representations of their learning and other tools that allow them to explore the realm of coding. The development of a maker-space at the College, as part of our Hands-On Learning program, will enable us to further enhance our ability to engage students in innovative thinking and practice in STEM learning.	
7/06/2017	GORDON INVENTION SPACE	The aim of the Gordon Invention Space is to spark the imagination of students to support them to take their first steps in becoming innovative engineer or scientist. The Gordon Invention Space is indented to be a space where students can learn STEM concepts by tinkering so as to invent, design and make solutions to engineering / science projects. Inspiration for the student led projects will come from their passions and curiosity the environment around the school. Through the Invention Space we plan to create a mindset within student where they believe that they can make a difference to their local environment.	
7/06/2017	STEM @ Carrington	Our Maker Space will be primarily used during our Design and Technology Specialist Lessons. It will provide all students at Carrington Primary School with the opportunity to make, play, experiment, discover and learn through open-ended challenges and tasks. As a flexible learning space it will cater for a range of age and ability levels ensuring an engaging experience for all learners.	
8/06/2017	Explorate - reinventing the way to book international container space.	Explorate is a new and innovative way of booking containerised ocean freight. Our cloud based platform will allow shippers and shipping lines to interact freely. The Explorate portal will be the first of its kind, bringing technology-driven efficiencies and unparalleled visibility to the pillar of global trade, international ocean freight. Entrepreneurs' Programme commercialisation support will assist Explorate to prove the commercial concept of its service offering, expediting the businesses ambition to become the best tech company in ocean freight.	

8/06/2017	Herons Creek STEAM Project	We are a small school of 36 students. Our marker space will be a resource space for our two multi stage classes to use for their STEAM activities. The space is a permanent adjoining room to our primary classroom. The area is large enough to set up a resource area for materials needed for our STEAM activities including robotics boards to use for our local and national robotics competitions. At the present we borrow our robotics equipment from our local high school. This space would enable us to purchase our own equipment for our two senior robotics teams to work in during class and lunch.We have also established a Coding Club this year that is run by the students through a mentoring program. This space will also be utilised by Coding Club.	
8/06/2017	Utilising learner agency to make a Maker Space	In 2017, St Peter Apostle Hoppers Crossing is aspiring to create a Maker Space which promotes real life problem solving through learner agency. Thus far the school has invested significant funds into providing students with a space in which they can 'problem solve, investigate, design and create' (our motto for the space). Students have been exposed to the skills of coding and had playful exploration with technological tools such as Makey Makey's, Little Bits and a variety of Robots. We have a teacher led curriculum team aiming to create a whole school shared vision around STEM and our Maker Space. With this in mind, we are trying to develop a growth mindset, for both students and teachers as we implement this new initiative.	
8/06/2017	Toronto Adventist School Maker Space	To establish a maker space for K-6 students to investigate, innovate and create, particularly focusing on robotics	
8/06/2017	Garran Primary School's STEM Centre	We would like to convert a storeroom in our resource centre into a space that all classes can use to support the hands on implementation of the digital technologies curriculum and STEM initiatives. This space will include open top benches for students to stand at and work, cupboards for resource and robotics storage as well space for 3D printers recently purchased through fundraising by our year 6 students. The space will be utilised for teacher professional learning run by Ms Erica Hediger (CBR Innovation Network, STEM specialist) for teachers at Garran Primary School and University of Canberra (UC) preservice teachers studying through the STEM program at UC.	
8/06/2017	St Joseph's Wingham - Makers for Life!	At St Joseph's Wingham we endeavour to provide learning opportunities in the area of STEM to ensure that our students maintain a high quality of life. From this vision we endeavour to establish a portable Maker Space in our school library to enable students an alternative learning space that focuses on scientific, technological processes with a focus on problem solving, creative and higher order thinking to essentially play, design and create. We envision that this Makerspace, called 'Makers for Life!' will foster collaboration between students, staff, parents and community members as they share and grow their knowledge.	
8/06/2017	St Margaret's Primary School Year 3 - 6 STEM Project	St Margaret's Primary School has identified the importance of STEM for current students and their future leading into high school and beyond. Our year 3 - 6 STEM Project will give students the opportunity to recognise their potential and pursue opportunities in science, technology, engineering and mathematics. They will be given the tools to develop ideas and projects that can enhance society through the use of technology. Students will be given key STEM skills such as coding, design and problem solving through a range of projects in our maker space.	
8/06/2017	Wyong Christian Community School - STEM Maker Space project	This space will be utilised by students from K-12 for STEM focussed inquiry based learning activities	
8/06/2017	Central Mangrove - Creative Collaboration Maker Space	To develop a portable maker space which inspires creativity through a process of collaboration, problem solving and risk-taking. This space will be used in conjunction with our STEM program recently established at the school to support a future focused approach through inclusion of advanced technology such as 3D printing and robotics.	
8/06/2017	Blakehurst Public School Futures Learning - STEM Maker Space	A dedicated classroom will house our STEM-focused maker space. Here, students from Kindergarten to Year 6 will access developmentally appropriate activities allowing them to apply creative and critical thinking skills while engaging with STEM concepts. It will host a range of activity stations and workspaces, including the use of drones, coding/programming, robotics as well as building materials and tools that will allow students to 'tinker', invent, design, prototype, build and make their ideas come to life. Students will become familiar with the design process, employ design and computational thinking, and become invention literate . Importantly, the space will allow students to collaborate and share their work and processes with others.	
8/06/2017	International Space Settlement Design Competition (ISSDC)	The ISSDC, supported by NASA, recreates the experience of working on an aerospace company proposal. Teams envision space colonies in response to a RFP. 18 students from 6 Australian Schools have been selected to compete at the 2017 ISSDC following their success at the Australian semi-final. 12 international finalist teams qualify from regional contests to compete at NASA Kennedy Space Centre in Florida, with Aerospace engineers sharing their knowledge and experience in both engineering and management. Student engineers demonstrate creativity, technical competence, management skills, space environment knowledge, teamwork, and presentation techniques to conquer the problems inherent in siting and designing a Space Settlement.	
9/06/2017	St Vincent's Primary Aranda - Maker Space: Code and Program Suite	The St Vincent's Maker Space project will allow children to design, create and invent through a connected play and explore space. The Maker Space will incorporate; Science through developing ideas of fair test, test and apply, re test and hypothesis, technology through building and utilising technological materials, creating real world technological problems to be solved with robots, engineering through creating of goals to solve and steps to engineer solutions and mathematics through coding in which the children must develop mathematical knowledge to work out angles, variables and step by step problem solving.	
9/06/2017	Kuraby Special School Maker Space- Inspiring learning	Kuraby Special School students from Prep to Year 12 inclusive will enhance their learning outcomes by establishing a science 'maker space' in their school. Kuraby students will be challenged by 'hands on ' learning opportunities to ignite their curiosity and learning regarding science. The science maker space will use the cycle of enquiry model to engage students with the Science Australian Curriculum. Students will embrace scientific concepts and accelerate their learning by experimenting with scientific principles and concepts facilited by a trained teacher using the environment of the science maker space.	

9/06/2017	Franklin Primary School STEM Project	At Franklin Primary the makers space will enable students Prep to Year 6 to engage in authentic real world challenges and contexts that require the integration of science, technology and mathematics. By creating, designing and developing solutions to real world problems, students will develop skills in critical thinking, literacy and numeracy. The makers space will provide access and challenge for all learners through a differentiated approach to learning. It will align with and integrate curriculum frameworks including the Australian Curriculum Design and Technologies.	
9/06/2017	The Kimberley Park SS TINKER LAB - Where Innovation Meets Design	Kimberley Park State School is leading the way in coding and robotics in the Logan district in Queensland. Our intended Tinker Lab space is proposed to be an extension to our existing Infinity Centre, a custom made Science and Robotics space. The Tinker Lab will be a space that supports design and technology projects, and these will be run through our Einstein Hour and IGNITE Elective program. As a potential school of excellence in STEM, the Tinker Lab will be partnering with Loganholme Library (3 -D printing), Fifty Six Creations (students making tablets) and Wonders of Science - UQ (problem based learning, Hacker-space thinking). All students will have access to the maker space to design, create, ponder and invent.	
9/06/2017	St Joseph's Primary School North Mackay - The Innovation Station	We aim to create a maker space that enhances STEM engagement at our school. We envision a space that can be used to engage learners in STEM projects across the curriculum, and to support projects in our extra-curricular clubs already established at St Joseph's. These include Coding Club, Lego Club, Technology Club and Drawing and Design Club. We have a dedicated space within our library that would become our Maker Space, incorporating robotics, green screen, lego/engineering materials, tinkering table, electronics and drone technology and the possibility of 3D printing. This builds on from our introduction of 1:1 devices, coding and embedding the digital and design technology framework across our school since 2016.	
9/06/2017	Project Community Maker Space	Project Community Maker Space will be about providing our students with a space where they can create, collaborate, communicate and critically think. We will aim to use the space as a place where Bloom's taxonomy is flipped so that students are able to create first through designing and tinkering. The aim of the project will be to create an inclusive environment where students who are connected to each other, connected to objects and connected to the problem-solving process regardless of socio-economic background and academic ability. Creatively crazy students and teachers will be highly valued in our maker space as they seek to find out-of-the box innovative creations and solutions to problems.	
9/06/2017	Makey Makey Portable Classroom	We will create a portable Maker Space that will focus on fostering imagination, solving problems and encouraging creative and courageous thinking that ignites passion in our students. We will create a portable space to allow all of our students from Kinder right through to Grade 6 to engage and utilise the Makey Makey software in their classrooms and workspaces.	
9/06/2017	Building Bright Futures - a new Centre for Science and Discovery	Concordia College is building a new Centre for Science and Discovery, due for completion in September 2017, which will include a specialist STEM related Maker space. This facility has been flexibly designed to facilitate state-of -the -art STEM education for at least the next 50 years. A major focus is to develop materials and resources that will offer all students a practical, hands-on experience and ignite their curiosity and interest in studying STEM subjects throughout their whole schooling. The space will allow students to engage with developmentally appropriate learning experiences that cross multiple learning areas and provide them with transferable skills that will be used beyond school in future pathways.	
9/06/2017	Maker Space Year 4 - Solar Energy Alternatives Tinkering Station	A Maker Space will be set up in the Year 4 area so that students will access the Maker Space during their units of inquiry - (I.B PYP) for designing, inventing and tinkering whilst deepening their understanding of the design process. The maker space supplies will feature solar panels, wheels, motors and arduinos/ raspberry pi s so that at the end of the year students will be able to make their own solar powered vehicles or other models (student directed) using renewable energy sources.	
9/06/2017	Kellyville STEM (Students Thinking Enjoying Mistakes)	We have established community links e.g. air force, universities and ensured the programs sustainability by investing in staff professional development and appointment of a Head Teacher STEM. The Mobile Maker Spaces will be used as a method for engaging learners in creative, higher-order problem-solving through hands-on design, construction, and iteration. They will provide powerful contexts and opportunities for students to learn and develop new skills.It is highly anticipated that STEM (maker space) learning can also empower students, helping them to shift from being passive consumers of information and products to active creators and innovators.	
9/06/2017	Imaginarium	At Caloundra we aim to create a STEM based makerspace. We are focusing on creating a space where kids can dream, invent, create, test and collaborate in a safe and supportive environment. The Imaginarium will provide a space where students are able to have creative time to build prototypes, fail and retry, bounce ideas off each other, ask and explore questions and build something together.	
9/06/2017	International Space Settlement Design Competition (ISSDC)	The ISSDC, supported by NASA, recreates the experience of working on an aerospace company proposal. Teams envision space colonies in response to a RFP. 18 students from 6 Australian Schools have been selected to compete at the 2017 ISSDC following their success at the Australian semi-final. 12 international finalist teams qualify from regional contests to compete at NASA Kennedy Space Centre in Florida, with Aerospace engineers sharing their knowledge and experience in both engineering and management. Student engineers demonstrate creativity, technical competence, management skills, space environment knowledge, teamwork, and presentation techniques to conquer the problems inherent in siting and designing a Space Settlement.	

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11/06/2017	Our lady of the Sacred Heart Catholic Primary School - Reaching Out with Robotics & Technology	The Maker Space at Our lady of the Sacred Heart Catholic Primary School will focus on Robotics and Coding technologies. Our Maker Space will be located in our school Library. In this space, students will be provided the opportunity to engage in whole school robotics based lessons and activities, together with sharing ideas, solving problems and competing in robotics challenges. Students will also be able to engage in coding and other technology based endeavours within this space.	
12/06/2017	Holy Family School Indooroopilly - SPARK and STEM Project	With support from the Maker Projects Grant Holy Family School Indooroopilly intend to establish a creative and inspiring space for children to be encouraged to think outside the square with engineering, maths, design and robotics activities and creations. Our focus will be on learning within each classrooms as well as on projects outside of class time inviting parents who have professional experience to be involved. We want our teachers to also learn from the expertise of parents particularly in engineering and robotics. We are already engaging teachers in STEM activities and professional development and have involved UQ University with our students from their ROBOGALS Project.	
12/06/2017	St Eugene College Burpengary - Hack Hub Maker Space	The St Eugene 'Hack Hub' is a unique maker space for students from Prep to Year 12 to engage in Science, Technology, Engineer and Maths. Students will have the opportunity to engage in computational, systems and design thinking in a project-based learning environment.	
12/06/2017	Talara Maker Space Design Lab	Talara Primary College prides itself on striving for excellence in education with current curriculum built around the 5 s enquiry model. This year eLearning and STEM is one of our core areas for school improvement. With the appointment of a STEM/ eLearning Teacher and a STEM committee consisting of 16 school representatives our school focus is on ensuring our students are receiving a curriculum that is innovative, solution focussed and that encouages our students to develop entreprenurial skills. With the establishment of a Maker Space Design Lab classes and lunch time clubs (including robotics and a Makers club) will be able to make use the resources and space to deliver the STEM curriculum while a mobile kit will also be made available.	
12/06/2017	Mansfield Junior Makerspace: Clever, Skilled, Creative	Mansfield will create a junior makerspace in addition to our existing makerspace, purpose built for our early years students from Prep to Year 2. The creation of a junior makerspace will complement our Age Appropriate Pedagogies trial, to ensure a range and balance in our school's pedagogical practices. Both AAP and makerspace share similar teaching philosophies, developing their creativity, decision-making, problem solving, innovation and collaboration. Junior Makerspace will be offered to all early years students as an extra-curricular club at lunchtimes, with additional pop-up sessions across the school. Portable kits will be based in a classroom and easily accessible for teachers to embed into curriculum based teaching and learning.	
12/06/2017	The King David School - The MER(IT) Program	Students engage in Science, Maths and Technology through their core subjects in class, however, we need greater opportunities available for students in the area of Science, Technology, Engineering, Maths, Makerspaces and Entrepreneurial skills outside of regular classes as well.The aim therefore of this program is to continue to develop the passion and interest of students by providing an avenue to further develop their creative and critical thinking skills.The MER(IT) program will incorporate a Makerspace area, Engineering(bridge building), Robotics(Lego) and IT(Arduino and Makey Makey). The program is designed to provide students with an opportunity to experience all of the above in a safe learning environment while guided by a mentor.	
12/06/2017	Pacific Lutheran College - Science, Technology, Engineering and Maths - STEM	A fixed maker space in the Library will enable delivery of Year 9 Elective STEM 1, and STEM 2 programs. Students have the opportunity to individual create and design their own projects allowing them to explore their area of personal interest, while developing skills in innovation, inquiry, collaboration and creative problem solving.	
12/06/2017	Algester State School - Maker Space	Participatory learning allows students to work in a collaborative and creative environment and the perfect way to achieve this is through the use of a Maker Space; this is why Algester State School is committed to developing such a space within the school. Our Maker Space will increase students' motivation through meaningful experimentation and tinkering. At Algester State School, we strongly believe that we need to foster and nurture an interest in the areas of STEM during the primary years of schooling to encourage our students to enroll in these subjects at a secondary and tertiary level. Our new Maker Space, combined with our existing Robotics and Coding Programs is sure to achieve this.	
12/06/2017	St Joseph's Primary School Bulli - Maker Space	St Joseph s Maker space - A place where our students can come together, use a variety of materials and technologies, to invent and create. Our students will be able to make things through code, robotics, art & craft materials, recycled materials, and much more. We will have a portable maker space in our outdoor learning area as well as a permanent location in our school library or stage 3 classroom area. Our maker space will be an innovative environment open to students from Kindergarten to Year6 where students will be encouraged to tinker, build, participate in hands on challenging projects or investigations to help promote and foster a love of mathematics, science, engineering and art.	
13/06/2017	Innovation Studio	The Innovation Studio aims to empower students for the challenges of the future through the elements of design, engineering and innovation. The Innovation Studio will challenge K-6 students in producing knowledge and form meaning through immersive, hands on experiences. The space will provide a variety of cutting edge equipment and resources, suitable to a range of ages, that will enable scaffolded learning to occur throughout all students' K-6 learning journey at Ss Peter and Paul Catholic Primary.	

13/06/2017	Donna Wright - Biological Science and Nature Play	The Maker Space will be a designated outdoor space to support the study of biology in primary school. We will provide a space for scientific study of Biology with a play space and with a focus on natural formations . We will plant a "nature" garden and identify habitats for different species. We will label our habitat so all children can learn about flora and fauna. Our biological playground will have a sandpit where we will bury "likely fossils" of the local region for children to dig for an learn about.	
13/06/2017	WWW.Beechworth Widening Worlds Workshop.	The school motto is Connecting Communities - Widening Worlds, and this project is aimed at doing exactly that! As a small rural secondary school in the historic town of Beechworth, our students will have opportunity to explore the world beyond their local experience. They have skills they can adapt to access the new technologies that is their future world. In a country community, they have limited access to the emerging technologies in their daily experience, but will be learning and growing in a world where this must be their reality. we can bring the wider world experience into their learning space so they can discover their talents and inspire a passion for self directed learning and discovery.	
13/06/2017	STEM Hub: Future-Focused Learning at Canterbury Boys High School	STEM teaching and learning strategies are relevant for all students in their ability to focus on creative problem solving, teamwork and the use of technology, skills for innovation and entrepreneurship. This initiative will deliver 21st-century thinking skills in a STEM context enhancing the future readiness of students in our community to engage in the study of technology and the sciences. The establishment of the STEM Hub maker space will allow students and teachers to access a specialist area with new equipment designed to further student skills and interest in STEM learning. The STEM Hub will be created through the conversion of a Science Laboratory to a multi-purpose area purpose-built for the delivery of STEM initiatives.	
13/06/2017	St Pius X Adamstown Maker Space	A shared space for St Pius year 7-10 students to undertake STEM projects and other creative "maker" projects across subjects. Access to 3D printers, robotics, electronics and fabrication equipment.	
13/06/2017	Quintilian School Maker Space	The Quintilian School Maker Space will be established as a space for teachers to take their classes during school hours and a space for after-school clubs, such as Robotics, to be held. The space will house equipment, such as 3D printers, computers and tools and that will enable children to design and make school-based and after school projects.	
13/06/2017	Makerspace Workshop Area	Currently at Kingswood Primary we run opportunities for students from year 3-6 to take part in makerspace activities. Our 3/4 students take part in "Junior Genius" hour and our 5/6 students undertake a unit called "Makey Makey" where they learn new skills and create something that will enrich the lives of someone else. Last year we had students make tables to donate to kindergartens, make clothes for the homeless and jewellery for sick children in hospitals. We did this without any formal makerpsace or tools. Students had to resource this themselves and bring the equipment to school that they needed. With this grant we would like to get some materials which we can store in long wooden containers that can also then become workbenches.	
13/06/2017	Raymond Terrace - The World of 3D Printing	Raymond Terrace Public School is focussed on delivering an integrated approach to teaching KLA's, incorporating a purposeful aim to deliver curriculum through STEM tasks, which demonstrate application of knowledge on creation platforms. Providing students with access to 3D Printing will promote engagement in Higher Order Thinking tasks. The maker space will be incorporated into the school computer room. Students will be able to plan solutions of real world challenges, promoting their abilities to think critically in 3D design. Our goal is to inspire students through integrated projects within engaging and challenging thinking classrooms. Access to specialist equipment will facilitate thinking in relation to variables, modifying design work.	
13/06/2017	Maker Spaces promoting STEM Learning at Congupna PS	Congupna P.S is a school of 50 students just north of Shepparton. We are a school dedicated to STEM and have a dedicated STEM specialist. We are currently refurbishing a general purpose classroom into a STEM Lab, complete with Lab Workbenches, LEGO robotics, class sets of iPads and 1 to 1 notebooks. Our students are well versed with Technology and are coding using a range of blockly programs, such as Scratch and Hopscotch. We would use this grant money to purchase materials for a maker space that encouraged engineering and design concepts for our newly refurbished STEM Lab. We would also like to purchase a 3D printer and explore the design opportunties associated with this technology. All teachers at CPS are committed to STEM education.	
13/06/2017	Makerspace at CWSC	We wish to create a maker space that will give the students the opportunity to apply their skills they have learnt through ICT, maths, science and the arts. This will involve the acquisition of a 3D printer to enable students to see their computer and arts based designs come to life in 3D representations. The space began as an art room but has recently had the addition of a tinker table featuring appliances and other items as well as tools for students to explore and figure out how these things work. We would like to embrace this interest and extend it to a wider school program that will be accessible to all teachers and used from preschool to year 6. Our intention of this program is to promote STEM thinking with our students.	
13/06/2017	Ellerston Public School Maker Space and STEAM Initiative	Our rural school is committed to the success of our STEAM and Maker Space initiatives. We aim to provide a learning environment that fosters the natural curiosity of children and develops their lateral thinking problem solving skills. We strive to provide students with the opportunity for collaboration and problem solving through Science, Technology, Engineering, Art and Mathematics. We encourage our students to think creatively and scientifically. This grant has allowed us to convert our old weather shed into a Maker Space workshop. A place where students don their lab coats and become scientists, engineers, artist, and mathematicians. STEAM and Maker Space at Ellerston are a large part of our future learning direction.	

14/06/2017	Establish a contract bureau for large scale 3D metal printing	AML Technologies was established to commercialize Wire-arc Additive Manufacturing, an innovative metal additive manufacturing technology for the production of high performance metal components and structures. It combines welding science, robotics and metallurgy to produce an automated 3D printing system, enabling fast, efficient and cost-effective manufacture of structures compared with traditional fabrication methods. Entrepreneurs' Programme commercialisation support will be used to establish the systems and software to demonstrate the WAM technology to aerospace and defence industries	
14/06/2017	Karridale Makerspace	Our makerspace will be a portable trolley for sharing across the 3 classrooms (P-6) to promote ongoing STEM projects that can be conducted within the classroom. We wish to add to the resource base available for students to access to create solutions to problems and lines of inquiry of importance to them and their interests, whilst building their knowledge and skills in collaborative and connected learning groups.	
14/06/2017	Toy Hospital- Reverse Engineering for understanding and conservation	The Maker Space will be an inquisitive problem based learning environment that is technology rich to allow students in Primary to quick feedback on design process. The space will allow for students to meaningfully participate in the design process including evaluation of design technologies. It will creates opportunities for students to produce structurally sound, solid products that have real-world applications. The space will also provide an opportunity to engage students both in class and at break through enrichment groups. The concept of establishing a toy hospital will be explored in the use of the space using 3d printing and design to create missing parts for students construction and damaged toys.	
14/06/2017	Lego Maker Space at Bees Creek Primary School	The initiative will be our first venture into a dedicated maker space accessible to all students. After much discussion and research, we want to start with a lego maker space, using a mixture of traditional and robotic lego. Our overall intention is to foster a sense of curiosity, tinkering and iterative learning, which we believe, in turn, will lead to determination, independent and creative problem solving. Collaboration and networking are key to setting up our maker space and we are committed to ensuring our student are involved in the planning stage. We have three teachers going to the National Futures Expo in Melbourne next week who will be attending specific workshops on Maker Space and they are directly involved in our Maker team	
14/06/2017	Woodbridge School and Marine Discovery Centre EnviroMakerspace	The Woodbridge School and Marine Discovery Centre EnviroMakerspace caters to students at our K-10 school as well as students from all around Tasmania who visit the Marine Discovery Centre (MDC). The MDC has multiple aquaria of living marine organisms for study and provides all Tasmanian teachers and learners with curriculum and teaching support to help them develop an understanding of important marine ecosystem concepts and processes and the practices used to develop marine scientific knowledge. Located in a coastal rural area, our school and MDC have a unique setting that allows students to explore the environment with self-built technology resulting in high engagement and attainment.	
14/06/2017	Hyden Hollow - Hyden Primary School	Our maker space, the "Hyden Hollow" will incorporate our children s favourite building material Lego. It will be a defined place in our school where students of all ages will come together as they use Lego to play, explore and actively participate in learning. It will be used for a wide range of activities with changing and flexible educational goals focused on Science, Engineering and construction. It will be a place in our school where a culture of creating is formed as students collaborate and share with each other their skills around a core focus science, engineering and construction.	
14/06/2017	Establishment of a STEAM collaborative workspace involving an integrated operational teaching plan	Rosalie Primary School is undertaking a project to establish an collaborative work space to support the delivery of its Science, Technology, Engineering, Arts and Mathematics (STEAM) integrated operational teaching plan. The plan provides for the purchase of equipment (ICT, robotics and electronics) equipment, the development of staff competencies in the development and assessment of integrated STEAM units of work, and the refitting of an existing classroom as a dedicated STEAM lab. The Rosalie Primary STEAM Lab is a flexible learning space for up to 64 students (Years PP-6), and is to be equipped with ICT (Chromebooks, wifi, printing, digital projection) equipment, along with full class sets of developmentally graduated robotics equipment	
14/06/2017	STEAM Makers	STEAM Makers project aims to develop a space which facilitates creativity, working collaboratively and problem solving. Our maker space will incorporate a dedicated room with the facility to use portable stations in other spaces. The space will be used by maths, science, art, digital technologies, design and technology classes and also be open at lunchtimes for a STEAM Makers club. The aim is for students to develop solutions to real-life problems incorporating knowledge and skills from multiple disciplines of science, maths, engineering, arts and technologies.	
14/06/2017	Katanning Primary School - Its Hot in the STEAM room	We will use the Maker Space funding to support the transition of our computer laboratory into a STEAM (Science, Technology, Engineering and Mathematics) integrated, and inspiring learning space: the STEAM Room. We will use the space for formal teaching and learning, for a before school STEAM club and as a lunch time Tinker Space . The STEAM Club will be run by the Science teacher and the school Digital Technologies curriculum leader. These activities will provide opportunities for staff and students to be creatively and purposefully engaged in formal, informal and self-directed learning, creativity, exploration of ideas and materials, invention and problem-solving. We plan that in the future, the space can be used for parent workshops.	
14/06/2017	Ashby Primary School - Full 'STEAM' Ahead!	The Maker Space in question will be two fold. The first initiative for the Maker Space will be to create a space that is engaging, exciting, and promotes the principles of STEM & STEAM. We will run our structured STEAM program out of this space. Visually, the space will resemble that of an 'invention' lab containing multiple workspace options and the necessary resources for students to carry out their investigations. Secondly, the space will be available to engage all students to foster a growth mindset in the area of STEM & STEAM. Students will be able to access and use all features of the space to ensure their natural curiosity is supported and encouraged. We would also run parent times out of this space for them to engage in this space.	

14/06/2017	Brookman Maker Space	Brookman Primary School wishes to establish two maker spaces, one indoor and one outdoors. The Indoor Maker Space will be attached to the current Science room allowing for a 'spill and build' area. A half wall has already been removed and replaced with a concertina door allowing this additional area to allow the flow of activities from the Science Room into the Maker Space allowing both areas to be used under supervision simultaneously. The outdoor Maker Space will utilise a former Gardener's Shed, storeroom and caged area to store tools and equipment for both lunchtime outdoor construction activities and class activities.	
14/06/2017	All Saints College, St Peter's Campus, Maitland - Maker Space	The Maker Space at All Saints College, St Peter's Campus is an extraordinary space in our school that encourages and enables innovation, experimentation, examination, analysis and application of ideas and thinking for the young minds that have access to and are encouraged to use this space in our learning environment. Expert teachers and mentors nurture and encourage the students who avail themselves to this space in pursuit of developing their ideas and testing the application of them. St Peter's, a member of the Hunter Valley community, seeks the development of new and improved ideas and ways of doing things in our world which complement the development of 21st Century thinking and innovation in our local industries and businesses.	
14/06/2017	Grant High School - Feasibility of compost heating on a small scale	Green Industries SA estimates that the region produces an excess of 6.4 million tonnes of Accessible Waste Biomass, that is, waste biomass which is deemed practically available for resource recovery purposes. Grant High School has been approached to investigate the feasibility of undertaking a small scale biomass project, in the form of compost heating. Schools are an ideal institution to conduct this investigation through STEM and also demonstrate to students that money can be generated through what people see as waste. A portable Maker Space will be developed for students to construct prototypes, run experiments to collect data and evaluate the success of the project.	
14/06/2017	Wondall Wonderings - The Genius Within	Wondall Wonderings - The Genius Within will be a permanent space within the school setting. Teachers will book the space through an online booking system. The maker space will provide resources and equipment to support student engagement in design thinking to prototype solutions to real world problems. The outcomes from the Maker Space will be to foster curiosity by creating a habit for good questioning and desire to understand more deeply along with collaboration of listening to and learning from others who have perspectives and expertise different from their own. Thus, generating associative and integrative thinking skills.	
14/06/2017	Making a Makerspace @ Trinity	We would like to build a Makerspace @ Trinity where students are encouraged to create, communicate and collaborate. The Makerspace @ Trinity will focus on exploring, creating, tinkering, coding, robotics and 3D printing. All students from Kinder to Year 6 will have regular opportunities to use the facilities in the Makerspace, including having input into the design and layout of the space itself during the inception phase.	
14/06/2017	KSA Digital Makers in the Making Project	Our school aims to provide students with the opportunity to immerse themselves in creative making investigations through our proposed KSA Digital Makers in the Making Project. We will establish portable Digital Maker Space kits. Our Digital Maker Space kits will enable each home classroom to set up their own Maker Spaces, allowing them to explore, create and innovate in their own environment with the world at their fingertips. These Maker Spaces will assist our geographically isolated distance education students to be regional and global citizens who are capable of challenging themselves and the world they live in, fostering innovation in the next generation. These kits will transform their classroom into Maker Spaces.	
14/06/2017	Moolap Primary School - Shape & Create Shed	Our Shape & Create Shed will focus on further developing students' design skills in art projects that include science-based experiments, engineering principles and design, & innovative use of recycled materials. The Shed will be a space where students can explore safely different materials used in these projects & utilise the tools required to manipulate these materials. The Shed will also allow students to have a dedicated space for experiments requiring monitoring/evaluation over several weeks. Ideally situated, the Shed fronts onto our back oval & vegetable garden and is in the perfect position to road test students' creations & conduct observations of the environment, including living/non-living things, both curriculum priorities.	
14/06/2017	Dodges Ferry Primary School - Project Seahorse: Explore, Innovate and Protect.	The Dodges Ferry Primary School maker space is an "Outdoor Classroom". The school's grounds include a wetland, community garden and beach. Our maker space is contextual and the heart of the school's STEM approach, it represents connection to past, present, the environment and community. The school library is being transformed into a learning hub, the launch pad for the Outdoor Classroom portable resources and technology. Our first extremely successful Outdoor Classroom STEM challenge for students with minimal resources was "Feral cats in our community", our ambitious second STEM challenge is to engage students through our marine environment by bringing attention to the fragile Seahorse nursery just a stones throw from their classrooms.	
14/06/2017	Creating Portable Maker Spaces	Our goal is to set up portable Maker Space Trolleys for each teaching block where students and teachers have access to a variety of consumable STEM resources as well as robots and circuit systems. These resources will be used as a key tool in integrating STEM across the school setting. Students will have the opportunity to gain practical knowledge and skills in design and engineering whilst encouraging their interest in STEM topics. These portable trolleys will allow all students access and freedom to explore, create and design solutions to real world problems. In using these trolleys teachers will gain experience and build their confidence in using robots and integrating STEM into their classroom practice.	

14/06/2017	STEM Advancement Centre - Balga SHS	The STEM Advancement Centre (STEMAC) comprises two adjoining spaces, a computer lab and an engineering design and make room. These two spaces are also adjacent to metalwork, woodwork and art rooms. Activities undertaken in STEMAC are Robotics, F1 in Schools Technology Challenge and after school Technology Club which has focussed on Robotics, 3D Printing, modelling using CAM and CAD, using Autodesk Inventor and 123D design applications. The school is now introducing Arduino and Raspberry Pi projects and through the STEMAC will implement integrated projects across the Maths, English, Science and Humanities curriculum using all of these technologies. This will advance our students and also our staff capability.	
14/06/2017	Rivergums Primary School - Portable STEAM Maker Space	Rivergums Primary School plans to establish an adaptable and portable space that can transform any classroom or wet area into a maker space. Our goal is to establish a space that will be used to inspire and motivate students in STEM inquiry, knowledge and innovation. The grant will be used to set up 4 maker trolleys and purchase sets of electronic building blocks. In this space students will be able to create, tinker, explore and discover. Students will learn to share resources and knowledge, work on projects, develop solutions, network and build interpersonal skills and teamwork. The space will provide hands-on, creative ways to encourage students to design, experiment, build and invent as the deeply engage in STEM.	
14/06/2017	Lesmurdie Primary School: A Makerspace in the Hills	The Makerspace in the Hills project aims to provide spaces where students can investigate and apply the disciplines of STEM in a hands on constructivist setting. The project provide students with opportunities where both explicit and constructivist learning opportunities can be facilitated by teachers. This will take the form of a well-resourced Makerspace. Through the Makerspace, teachers can facilitate and encourage students to follow their sense of curiosity and apply STEM disciplines in an integrated and hands on fashion. Through the Makerspace, the project aims to promote innovation, creativity, collaboration and student engagement in STEM.	
14/06/2017	Robinvale STEM Maker Space	The maker space at Robinvale College will be based around the STEM disciplines of Engineering and Technology, but will also include both Science and Mathematics experiences. The space will include Lego EV3 robotics equipment, Makey Makey invention kits and a range of tools and equipment that will allow students to design and create sustainable solutions to real world problems, including sustainable energy supply, materials for the future and sustainable agriculture. Students in STEM classes will use to address specific curriculum based learning, while the STEM club will more informal, with students being able to select the types of challenges they engage with. Students in the STEM Club will be encouraged to adopt longer term projects.	
14/06/2017	Maker Space at COHR	Christ Our Holy Redeemer Catholic Primary School (COHR) will establish a 'maker space' in the school library. This space will be available at lunchtimes to provide our students with a 'maker space club'. This space will provide our students with a learning environment that is rich with possibilities. Our students can explore, learn by doing and from other staff and students using new technologies and traditional tools.	
14/06/2017	imake@HilliardSS - STEAM Centre	The imake@HilliardSS - STEAM Centre at Hilliard SS provides all students, Prep to Year 6, with opportunities to engage with Maker Space and STEAM related resources and activities also related to the Australian Curriculum - Technologies and including Coding and Robotics. As an Apple Distinguished School, the STEAM resources and activities will be complemented through our World Class iLearn@HilliardSS iPad Program. Hilliard SS proudly hosts Open Days for school staff across Queensland and the imake@HilliardSS - STEAM Centre is a feature of this day.	
14/06/2017	Tahmoor Public School Maker Space	This project will develop a old Principal's cottage, which is currently utilised as a teacher professional development centre, into a maker space/hacker space. As a maker space, the centre will be used for student and teacher training visual coding, 3D printing, electronics, robotics, construction and design technology using recycled and re-purposed materials. As a hacker space, the centre will be used for student and teacher training in computational thinking, app design, block coding, animation (including Claymation), and programming. Existing WiFi access will be upgraded, and touch screen technology will replace existing LCD projection. Modular benches and interactive tables will augment existing built-in storage and table space.	
14/06/2017	Explore...	A maker space for students and teachers to explore, tinker, design and make with tools both new and old.	
14/06/2017	Carlton North's Creative Coders Space	Proficiency with and access to devices for digital projects is an essential part of preparing children for life and work in a technology-driven world. Carlton North Primary School is a leader in the delivery of computer controlled robotics programs that stimulate students' computational thinking and proficiency in applying STEAM skills to practical problem solving. Recent developments in hardware and software connectivity have led to exciting new avenues to build on our successful robotics program to open up more learning opportunities for students. This grant will enable the school to upgrade our current robotics equipment to introduce students to emerging technology.	
14/06/2017	Leeming Maker Space	Leeming Primary School intends to develop students skills through a designated Maker space. The school has a second enclosed undercover area that is not currently used. The Leeming Maker Space will be developed to provide a facility that students can safely work with tools and materials to build projects. Planning and design will be undertaken in class and the space used to develop the STEM skills required. Staff will be given Professional Development from the Maker Project Champion	
14/06/2017	Yule Brook Makerspace	In YBC Makerspace, a multidisciplinary, cross-curricular space, students will design, build, test, prototype material representations of what they learn (or want to learn) using a range of materials and tools. These will range from the low-tech cardboard, glue to hi-tech 3D printers and robots. The main goals of YBC Makerspace will be to act as: - a school-wide catalyst for STE(A)M activities through student-generated projects - a vehicle for social inclusion and engagement of all but particularly Indigenous and refugee students - a space to connect students with expert mentors and (particularly local) businesses sharing the same or similar interests - an opportunity for staff and school leaders to expand their knowledge and skills	

14/06/2017	Pally Maker Space	Palmyra's Maker Space will be a space where students can be creative, invent and solve problems. It will focus on collaboration, interaction and hands-on learning. The purpose of the space will be to address both design and digital technologies whilst integrating science, mathematics and electronics.	
14/06/2017	Bits and Bots Collaboratory	The Bits and Bots Collaboratory will transform an unused classroom into an interactive learning zone designed to inspire students to explore possibilities and create innovative solutions. Our Maker Space will provide students the opportunity to explore digital technology, from design using computers and Ipads, to production using 3D printers. They will be able to code, design and modify robots to meet specific needs and they will have the chance to design and create with concrete materials, developing skills in engineering. Whether through tinkering or technology, our program will allow them to develop the skills that will enable to become life long learners, problem solvers and valuable contributors in our modern society.	
14/06/2017	International Space Settlement Design Competition (ISSDC)	The ISSDC, supported by NASA, recreates the experience of working on an aerospace company proposal. Teams envision space colonies in response to a RFP. 18 students from 6 Australian Schools have been selected to compete at the 2017 ISSDC following their success at the Australian semi-final. 12 international finalist teams qualify from regional contests to compete at NASA Kennedy Space Centre in Florida, with Aerospace engineers sharing their knowledge and experience in both engineering and management. Student engineers demonstrate creativity, technical competence, management skills, space environment knowledge, teamwork, and presentation techniques to conquer the problems inherent in siting and designing a Space Settlement.	
15/06/2017	Saint Joseph's Primary School Denman - STREAM Project	Saint Joseph's Primary School Denman will create a maker space within the school hall. This will incorporate integrated workspaces that can fold down when not in use and additional lighting to assist in student project development.	
15/06/2017	St Jude's Primary School - Sustainable 3D Printing	The maker space will be housed in the school library. It will be available three mornings a week before school during our maths club and for classes during the day. The students have some coding and robotics experience along with a lot of collaborative work in MInecraftEdu. We would take the collaboration a step further by 3d printing Minecraft models. Many of the students collaborate with Minecraft projects, sharing ideas, thoughts and imagination. Earlier this year a small group of three year 5 girls designed a Minecraft model for a new Frankston Railway Station competition. It was an undersea station as Frankston sits on the foreshore of Port Phillip Bay. Imagine the learning and excitement derived from a printed model.	
15/06/2017	Innovation and Creation Centre	We plan to provide a space for our students to explore, design, make and experiment;to create and innovate.	
15/06/2017	St Mary's Anglican Girls' School Maker Space	Our project is designing scientific equipment utilising engineering, mathematics, design and technology and digital technologies concepts for a real-world purpose. This project is designed to extend what we have previously known as users of technology, to becoming innovators of technology and digital systems; thinking beyond the normality of the classroom walls and truly encompassing the Australian Digital Technologies Curriculum as well as Science, Maths and Design and Technologies.	
15/06/2017	The Design Hub	The Design Hub is a centre for innovation where student work independently and collaborative to develop creative solutions to real world challenges. The Hub incorporates traditional Maker and Hacker space elements that will provide a wide range of construction and digital modelling tools to allow students to develop their understanding of STEM concepts, System and Computational thinking through project based learning. .	
15/06/2017	Emmanuel College MakerSpace	The MakerSpace focusses on getting students to think and solve problems. Students will be encouraged to design and build items using a 3D printer. They will be encouraged to explore a changing variety of activities, such as electronic kits (LittleBits) to construct electric circuits. Students will have the opportunity to play with Sphero robotic balls and construction kits such as Lego and Meccano.	
15/06/2017	Observing the microsphere	A portable trolley with stereo and monocular microscopes that can be wheeled to different areas of the school during lunchtimes. The trolley would be stored in the High School science prep room. The students can collect samples from the playground to observe. Students will be encouraged to draw what they see and calculate the overall magnification of the field of view. Further extension could include work inspired by the scientific artist Ernst Haeckel. This maker space will foster students' curiosity with the natural world.	
15/06/2017	CREANEY STEM SMART SPACE PROJECT	This is a permanent STEM SMART SPACE. The purpose of this project is to bring STEM to the classrooms by providing STEM interactive work areas and STEM resource storage in shared activity areas that adjoin clusters of classrooms. This STEM SMART SPACE will enable students to work independently or in small groups to complete tasks throughout the day. STEM can then be integrated across the curriculum as a process of learning and not just restricted Science, Technology, Engineering and Mathematics.	
15/06/2017	Collaborate and Create	Developing further the focus that is already placed on, the Maker Space will allow so many more students to access this area of the curriculum. Within an already flexible learning space, the Maker Space will allow students from across the College to engage in exciting projects that will extend their understandings and allow them to be creative and explore more possibilities than previously. At Roleystone Community College, we have specialist classes in this area in Years 7 and 8 and we are currently developing a group of Year 6 students with a focus on girls and technology. Additionally, this will allow our teachers to ensure that lessons are more engaging and hands-on, fostering more interest and enthusiasm.	
15/06/2017	STEMing Ahead at North Mandurah Primary School	Our maker space will enhance our school community's capacity to provide enriched STEM projects to our students. The necessity to provide engaging and challenging learning opportunities for our students is vitally important, especially given North Mandurah's social disadvantage. Our maker space will assist our efforts to encourage our students to reach for the stars and contribute to our belief that all students can be high achievers. Students will develop higher order thinking skills and critical analysis and be able to solve problems and innovate in a collaborative environment. The focus would also be on the team work and collaboration skills of our students.	

15/06/2017	Craigie Makers	We will expand our current Makers activities to become more cross curricular and increase the capacity for entrepreneurial projects that involve high level problem solving and creativity. The space needs to be filled with tools and devices to enable the process of enterprise to occur fluently and ensure that all students involved have reasonable access to them.	
16/06/2017	Re-modelling of a traditional Library space for learning involving digital technologies and STEM related disciplines	This grant seeks to assist with the re-imagination of a traditional Library space at St. Mark s Primary School is located in Dingley, Melbourne, Victoria. Currently, the Library is heavily focused on traditional literature and literacy opportunities for students. Primarily, students use the Library to read and borrow books, or to conduct research for their projects. The vision for the Library is to provide a dynamic and supportive setting for exploratory learning and knowledge / product creation, that assists members in becoming thoughtful users and creators of information and products with an emphasis on improving society through lifelong learning, through the use of Digital Technologies, STEM related disciplines and Maker dispositions.	
16/06/2017	ESTABLISHING A MAKERSPACE WITH 3D DESIGN AND PRINTING	To establish a Makerspace to maximise the potential for students to develop and apply STEM based skills through 3D technologies including: Hands-on experience working with emerging and advancing technologies Authentic opportunities for students to design solutions to real-world problems and ideate their entrepreneurial and innovative ideas Fosters critical and creative thinking skills through design processes Provides a vehicle for engaging in problem-based inquiry learning Development of practical skills and safe practice with tools and equipment Allows for rapid prototyping, experimentation, iterative design and tinkering Builds students repertoire of skills, tools and processes for making	
16/06/2017	Inquiry Based Learning for Future Solutions.	The makerspace we wish to establish will compliment and cohabit the existing dedicated technology room. This room currently stores our robotics hardware and 3D printer and serves as a technology learning hub for the school. The space will be used as an environment for students to build, design, explore and solve inquiry/problem based activities using the latest technology available.	
16/06/2017	Annesley College - Studio 28	Collaboration is at the heart of Studio 28. Annesley's students, parents and staff positively connect with the wider community including services clubs and the University sector through thinking, tinkering, creating and deconstructing. Rich formal and informal conversations and actions occur in line with clearly defined academic outcomes. Studio 28 is a stand alone space, dedicated to ensuring participants are challenged, supported and educated to take risks, play, explore, be innovative in their learning and create a culture of creation! Studio 28 has various break out spaces attached to the 'heart' of the Studio, meaning it is a space that is versatile and can facilitate multiple uses at the same time.	
16/06/2017	Maker Space and STEM lab @ Roxburgh College	Around our school, jobs are transitioning from Manufacturing jobs to high tech and innovation jobs. We want our students to be exposed to new technologies, we want to them to think differently about the world that they live in, we want to them to experiment with new technology and we want them to be a creator not just a consumer. Innovation is key! The maker space will be used for our students to come in with a problem or a issue they have identified and use the space to creatively come up with solutions to the problems. Our students could use 3D printers to engineer and print solutions to their real life problems. They will create programs that will run on micro-processors to help automate their lives or to assist around the home.	
16/06/2017	St Norbert Maker Space	A student centred, collaborative space, where students from any year group can come and work together to create solutions to problems in their world that needs solving. The maker space will be full of both high tech and low tech, plugged and unplugged equipment, allowing students to combine what they already know, with the emerging world of technology that they are not yet familiar with, to devise, invent and create solutions to problems in their immediate world.	
16/06/2017	KAS Maker Space	The KAS Maker Space will be located within the school's new purpose built K-12 STEM facility which adjoins current science and industrial technology facilities. The KAS Maker Space will allow for project-based learning to occur in an area free from the constraints of a more traditional classroom setting, where furnishings, resources and pedagogy combined to enable creativity, communication, critical thinking and collaboration in a manner to best-prepare students for the workplaces of the future.	
16/06/2017	Bentley Park College's Robotics Maker Space	The Bentley Park College's Robotics Maker Space is a physical space for students in secondary school to expand their knowledge and understanding of robotics and a space for developing innovative digital solutions to presented and discovered problems. The students will be working on creating robots for junior school students at our primary sector as well as for students in our feeder primary schools and smaller rural schools in the southern corridor of Cairns as a part of presented problems. The students will also be able to work on solutions to problems that they have discovered as a part of their learning in different subject areas or as a part of their personal life.	
16/06/2017	Dayboro STEAM Team	The Dayboro STEAM Team lab will provide a space for students to work on independent and collaborative projects to solve real-life and simulated problems using tools and materials to engineer solutions. 3D printers are an important creative and engineering tool for the 21st century and the Dayboro STEAM Team lab aims to provide experiences needed for children to be digital citizens, this includes the use of 3D printers.	
16/06/2017	HSPA TAS Design Lab	The HSPA TAS Design Lab will be used to provide opportunities for students from years 7 to 12 in STEM and Design education. Programs such iStem and Future Focused Inquiry in stage 5, along with stage 4 Technology and Stage 6 Design & Technology and multimedia courses will benefit from the space. The lab will provide a permanently set up space allowing students to collaborate and work individually with Arduino and thinker shield, 3D printing and laser cutting in an engaging and comfortable learning environment.	

16/06/2017	Hunter River Maker Hub	Hunter River MakerHub will be a standalone designated area located within Hunter River High's 21st Century Library. The MakerHub will be a space designed to generate creativity, invention, inquiry learning, collaboartion and critical thinking. Students will use modern technology, along with science, electronic, design and construction materials to foster their knowledge creation and growth in STEM. There will be practical opportunities and experiences designed to develop deep knowledge in aspects of innovation and entrepreneurial thinking. Hunter River MakerHub will be established with a focus on technologies which are shaping the future world of the 21st Century student, such as virtual reality, 3D printing and wearable technology.	
16/06/2017	Developing critical and creative thinking through maker space.	Our maker space aims to provide our year 5/6/7 students with an opportunity to engage in meaningful learning experiences that challenge their thinking in order to solve technology related problems. With the equipment being able to be stored in an organised way, making it available and easily accessible and appropriate bench space that allows for the safe handling of tools and materials our students critical and creative thinking skills will develop further. The space will be used during science and technology lessons as well as during "Genius Hour" where students work in small groups or individually on self developed projects in areas of interest where the only directive is that their project must benefit the school community in some way.	
16/06/2017	Currimundi State School - Full Steam Ahead	Our 2017 project goal is to establish a Makerspace that builds learner capacity and upskills teachers and students, helping develop fundamental capabilities and knowledge relating to the new digital technologies curriculum. Students will be able to collaborate and engage in fun challenges that help them understand how STEM is applied to the real life problem solving, promoting curiosity and learning where students can explore and be innovative, leading to greater exposure to computational thinking. By applying our school s ethos Riding the Waves to Success as an analogy for our maker space, it promotes growth mindset so students develop to their full capacity, building creativity and confidence to become the best they can be.	
16/06/2017	Calwell Inquiring Minds Maker Space	Students at Calwell High School are challenged to think outside the box and to answer inquiry questions as part of their learning and assessment. They use their Maker Space as a Flexible Learning Area which facilities a wide range of learning styles and projects to happen simultaneously.	
19/06/2017	Development and Commercialisation of a Kinetic Manufacturing 3D Printer	Effusiontech Pty Ltd has developed a world first Kinetic Manufacturing 3D printer for industrial markets including automotive, aerospace, medical, motors, batteries and electronics. The technology is up to 1000 times faster than existing metal 3D printers enabling 3D printing to move from prototyping to production. Accelerating Commercialisation support will be used to help Effusion develop a commercially ready printer that can be used to manufacture parts quickly in a range of materials.	
19/06/2017	Establishment of an outdoor tinkering studio that will promote deep thinking.	At St Bernard s our aim is not to prepare children for the 21st century but to prepare children to transform the 21st century. We hope to do this by creating an Outdoor Tinkering Studio that will help unleash the power and potential of students to transform their world. This space will be a place where children imagine, tinker, explore, create, experiment, play and share delightful ideas.	
19/06/2017	Mater Christi College Maker Space	The Mater Christi College Maker Space will provides a hands-on approach to learning for all students. It will be a space for tinkering, problem solving, experimental and personal learning. Access to 3D printers electronic kits and equipment for laser cutting will be provided. The space will be located in the Learning Commons (library) to provide access to all students and staff at any time of the school day, from 7.30am - 5.00pm each weekday. It will be a welcoming place where all students can work collaboratively and be encouraged to experiment and fail and learn from their experiences. Scaffolding will be provided by teacher-librarians to support student learning and project design. Teachers can integrate the space into their subject areas	
19/06/2017	Dandenong West Primary - Making Imagination become Reality	Dandenong West Primary have an established school workshop that is used by a Men's Shed and Community Hub. Our Maker Space will link this work with our students through a focus on Science and Technology. Combining existing resourses with maker equipment such as Makey and Makey, Arduino, the school space focuses on linking community expertise in engineering and construction to support students to have their imaginations come alive.	
19/06/2017	STEM Project	Schools that include 3D technologies such as 3D design software and 3D printers when establishing a Makerspace are maximising the potential for students to develop and apply STEM based skills. Hands-on experience working with emerging and advancing technologies Authentic opportunities for students to design solutions to real-world problems and ideate their entrepreneurial and innovative ideas Fosters critical and creative thinking skills through design processes Provides a vehicle for engaging in problem-based inquiry learning Development of practical skills and safe practice with tools and equipment Allows for rapid prototyping, experimentation, iterative design and tinkering Builds students repertoire of skills	
19/06/2017	Tarneit P-9 Maker Space	At Tarneit P-9 College we value student learning. With the introduction of our new double story learning space in 2018 this project will contribute to fitting out our custom designed Maker Space. Class sets will be available for all of students P-9 as part of their exploration of STEM.	
19/06/2017	Bargara State School - Building Hub at Creation Corner	We seek to supplement our existing Maker Space with a 'Building Hub' allowing students to explore robotics through age-appropriate lego. In our existing Maker Space (Creation Corner for Prep - 6), we currently provide: * Weekly exposure to engineering projects - eg building of marble runs, water wheels, electronic circuits etc * Contests that encourage creative thinking/exploration - eg build a robot hand, design an outfit from paper, annual built-machine 'fly off' * Creative pursuits - origami, colouring, art media * Robotics - Edison, programming Purchase of a set of WeDo 2.0 kits would allow students to enhance the construction and coding skills already built through the activities in the existing Maker Space.	

19/06/2017	Girton Grammar - Makers Empire 3D Large Solution	Schools that include 3D technologies, 3D design software and 3D printers when establishing a Makerspace maximise the potential for students to develop and apply STEM based skills. Hands-on experience working with emerging and advancing technologies Authentic opportunities for students to design solutions to real-world problems and develop their entrepreneurial and innovative ideas Fosters critical and creative thinking skills through design processes Provides engagement in problem-based inquiry learning Development of practical skills and safe practice with tools and equipment Allows for rapid prototyping, experimentation, iterative design and tinkering Builds students repertoire of skills, tools and processes for making	
19/06/2017	Maker Space: St Peter's Girls' School	St Peter's Girls' School has identified STEM as a key aspect of the School's Strategic Plan. As a forward-thinking girls' school we are ideally suited to increase the engagement and participation of girls in STEM. The Maker Space will enable girls to play, innovate and work with an entrepreneurial mindset on projects that are trans-disciplinary. The flexible space will be strategically located between the Resource Centre and the Science areas, enabling students to move seamlessly between research, creative thinking, problem-solving and prototyping their designs. It will accommodate one entire class at a time, purpose-built for students in Years R-12. The space will also be used by individuals and small groups in co-curricular activities.	
19/06/2017	Aranmore Catholic Primary Making Space for Young Creators	The ACPS Maker Space will be a large room with a number of different areas designed to cater for specific aspects of STEM. there will be a dedicated space for building with the use of cutting boards, recycled material, electronics and basic tools, tables and benches of appropriate height will be provided for work that needs to be carried out whilst standing. Conversation and creativity areas will be furnished with comfortable lounge chairs for sitting to provide a relaxed environment where students can share ideas and allow their creativity to flow so that they can be inspired to design and generate original and functional products. There will also be a technology area where students can use a range of modern devices and gadgets.	
20/06/2017	Technical Centre Maker Space - Enigma Code Breakers	The "Code Breakers" maker space will enable students from Year 1 to Year 6 to explore a range of different coding applications and devices. The "Enigma Code Breakers" Makerspace will support teachers and students to use coding a robotics in innovative learning contexts. From wearable "coded" art to problem solving solutions of a humanitarian nature to "make the world a better place", we would like students to innovate, discover and create solutions to real world problems or to use their imagination to fuse the world of coding to the fashion world.	
20/06/2017	Kaleen High School - UCHSK MakerSpace	2016 is the first year UCHSK has delivered an iSTEAM course. We have started with an aeronautics course, which starts with walk a long gliders and paper planes and then progresses to the water bottle rockets and then to the StarLAB Mars Rover. We have also been gifted a 3D Printer which students are using to make their nose cones and fins for their rockets. We would like to procure items to make a specific space to deliver the course. This grant will provide the school with vital equipment to provide the students the opportunity to have a dedicated space to extend their design thinking and become innovative problem solvers in a Human Centred project based learning environment.	
20/06/2017	Cedar College - STEAM Connections	The makerspace will be a great opportunity for students at Cedar to develop STEAM skills and hopefully inspire them to choose STEAM career pathways. It will also be a way to enhance our curriculum and increase student engagement. It will also enable the development of critical and creative thinking. It will eventually have a variety of equipment, including 3D printers, robotics and circuit kits. The STEAM Connections project will investigate and explore ways in which the Makerspace equipment can connect to the Australian Curriculm.	
20/06/2017	St Johns Lutheran School - Creative and Critical Thinking (CCT)	As an IB PYP school we will endeavour to provide inquiry learning through the establishment of our (CCT) room being fully resourced to provide engaging STEM learning opportunity. It will include wet area facilities and work bench space for making and creating. Storage of resources including devises like Arduinos, electronics kits, magnetics kits, 3D printers, craft equipment like glue guns, baloons, nails etc, science equipment and consumables will all be available in this space.	
21/06/2017	Merewether Heights Maker Space	Our intention is to establish and maintain a maker space focused on science, technology and engineering. This space will be for students at MHPS to develop their skills and knowledge in STEM learning areas. The space will be used for formal lessons during class time, and it is intended that the space will be open during some lunch breaks for students to continue on their projects. It is envisaged that we will invite community members into our school to pass on their skills and knowledge to the students using the space.	
21/06/2017	Kingborough Makerspace	Kingborough Council is collaborating with the Hobart Hackerspace and Kingston LINC to create a place for imagination, learning, making, creating, tinkering, exploring and discovering using a combination of hi-tech and low-tech materials and resources. The project will focus on concepts such as robotics, coding, circuits, electronics, computers (building and taking apart), 3D printing and design, laser cutting, traditional woodwork and metalwork with a digital focus and soldering. Experts in the different fields will be recruited from the Hobart Hackerspace, LINC and UTAS Peter Underwood Centre to run after school, weekend and school holiday workshops targeted at young people under 18 years of age.	
23/06/2017	Advanced manufacturing of new high entropy alloys	This project addresses the global demand for new, high-performing materials, driven by demand for improved performance efficiencies. High entropy alloys are a new class of alloys with outstanding potential for providing enhanced durability and energy reductions in energy, aerospace and mining applications. However, manufacturing these alloys in large and complex components is a challenge. This project will pioneer new high-entropy alloy components and compositions using advanced manufacturing.	

23/06/2017	Students from across Australia attend YMCA Space Camp	The YMCA Space Camp Powered by WorldStrides is an action-packed experience you won t want to miss! For 5 days we ll learn all about space and meet real scientists and engineers working on NASA missions. We ll look through giant telescopes, map the earth in real time, fly drones, build Mars Rovers and explore some of the big equations scientists have to solve before we can get to Mars. The sponsorship provided allows young students from across Australia to join together in Canberra for one of two action packed weeks. Students are mentored by university students studying STEM subjects, and the focus of the camp is inspiring young people to undertake a career in STEM and follow their passion for Space and Science	
26/06/2017	The Studio Incubator	As a new Australian incubator, The Studio will foster, support and enable innovative and new startup enterprises in the media-tech and creative-tech space with a focus on assisting them to trade internationally. This support is a mix of incubator services; accelerator programs; specialist workshops, masterclasses and conferences; mentoring and business advice; links to private equity and capital; links to a global network of mentors, incubators, accelerators and creative tech hubs; access to facilities that support creative/media-tech initiatives such as test devices, new technologies, green screens, studio and editing facilities; and serious networking events.	
5/07/2017	Scholarships to UN Youth ACT Space Summit	UN Youth ACT has funded the place of 30 low-SES school students at its Space Summit. The organisation is a Division of one of Australia's largest youth-run organisations, and annually engages with about 2000 students in the ACT and regional NSW. The Space Summit follows a long history of similar events, including a National Conference on Innovation in July. The funding will allow the most enthusiastic local budding scientists, selected in consultation with their low SES schools, to attend the event for free. There, they will learn about space, and its technological challenges and opportunities, from UN Youth volunteers and authoritative special guest speakers. Most importantly, the event will foster attendees' passion for STEM.	
17/07/2017	Kennedy Space Station- Space Camp	This sponsorship grant provided real life opportunities to 30 students studying Science and Mathematics, providing a once in a lifetime experience for girls to engage in activities with like-minded young scientists, promoting careers in Science can be undertaken by anyone who has a passion for the subject. It is hoped the trip will help students to choose more challenging levels of Science in the senior years of the College. TRIP DETAILS & EDUCATIONAL HIGHLIGHTS: Participate in a simulated shuttle mission. Lunch with a real astronaut and hear first-hand about life in space. Get up close to Space Shuttle Atlantis. Learn about the science behind the rides at Islands of Adventure. Engineering challenges at the space station	
17/07/2017	Participation at the Junior and Senior Space Camp	HASSE Space School is specifically designed to encourage females to participate in STEM. Travelling to the Houston Space Centre, 9 students will be immersed in Engineering through talks from Astronauts and Engineers and hand on experiences such as building and testing heat shields and rocket launchers. Students will also attend RICE university to gain experience in university life.	
31/07/2017	Australian Space Design Competition	Teams of up to 12 respond to an engineering Request For Tender (RFT) and design a futuristic space settlement, planning structural engineering, operations and infrastructure, personnel factors, automation, and business development. The ASDC Finals is a high-tempo industry simulation event held annually over a weekend in mid January. Finalists from the ASDC Qualifying Round are formed into four aeronautical engineering companies, and are given a new RFT, with a brand new space settlement scenario. They then have 30hrs to meet these RFT requirements, and submit a presentation outlining their design to a panel on industry expert judges.	
3/08/2017	Workshops and intensive one-on-one's for Social Enterprise Startups	Will Rosenzweig currently Social Impact Fellow and Lecturer, Haas School of Business, UC Berkeley, will be providing mentoring and workshop training for startups and social enterprises resident in the iAccelerate program and engaging with iAccelerate IMPACT Conference and Bootcamp for a 6 day period. He will also be providing intensive one on ones with selelcted startups. Upon his return William will be providing mentoring advice and assistance with making connections in the International Social Impact space including investment opportunities.	
8/08/2017	SHE FLIES @ BALMORAL HIGH	She Flies, a company that specialises in giving girls confidence in STEM by flying drones, is coming out to run a course for students at Balmoral SHS as part of our Aerospace Program. They will be running two sessions for 30 girls aged from Grade 6-8 on the 11th of September and another for 30 girls years 9-11 on the 12 September 2017. Students involved in the program will learn how to control and fly a drone in groups using a tablet device, and compete in a variety of fun challenges. This link will give you more information: http://www.sheflies.com.au/ .	
9/08/2017	Australian Conrad Spirit of Innovation Challenge	The Conrad Spirit of Innovation Challenge invites Australian students from years 9-11 to work together in teams of 2 to 5 members to use Science, Technology, Engineering, Math (STEM), innovation, and entrepreneurship to develop world-changing solutions to create a more sustainable world for this and future generations. The Australian Conrad Challenge is an annual, multi-phase competition that brings together a dynamic community of innovators and entrepreneurs driving a collaborative movement to develop extraordinary and viable solutions to benefit our world in one of four categories: Aerospace & Aviation, Cyber Technology & Security, Energy & Environment, and Health & Nutrition.	
10/08/2017	Yandina Makerspace - Create/Collaborate/Evaluate	Yandina State School is a low socio economic school that is committed to the promotion and implementation of STEM across all year levels. The makerspace we are planning will focus on the use of recyclable, reusable and repurposed items to assist in the delivery of current curriculum. The Makerspace will promote creativity, collaboration and evaluation. It will be a space where students are encourage to create in a safe and supportive environment.	

11/08/2017	3D Printing Robots	We are living in the age of robots. This project will provide students with the opportunity to open their eyes to the robots that encompass them every day. This project will be conducted in a shared classroom space providing students with an area to unleash their creativity, students will develop their knowledge of the applications robots are used for around the world by exploring their current uses and needs that they fulfil. Students will find their own need and then set about designing and creating their own robotic solution to fill the need. The use of an onsite dedicated workshop during the creation phase will assist students with crafting their own accurate working models with the use of 3D printers.	
15/08/2017	Maker Space- Making Solutions	The Redeemer Maker Space will pair the STEAM curriculum with an inquiry approach to encourage our students to engage in innovative design and problem solving. Through this process, the students of our school will develop the design, engineering and programming skills necessary for success in the 21st century. Our Maker Space will be established within a specified general learning area. Having the MakerSpace established in this way will encourage maximum utilisation by students from both the primary and middle school campuses. The space will be used by students to try and create innovative solutions to problems posed by the MakerSpace Champion as well as for free, open ended discovery and design sessions.	
15/08/2017	GCC Makerspace	The GCC Makerspace will provide access to a wide range of tools and technologies that engage students in Science, Technology, Engineering, and Maths (STEM) related activities. Meaningful projects that align with curriculum requirements, providing opportunities that encourage play, exploration and independent inquiry will seek to harness students passion to create and innovate. Students will be encouraged to develop a maker mindset; to make, build, create, tinker and share ideas, inspiring critical thinking, problem solving and collaboration.	
15/08/2017	Creative STEM Commons Makerspace	The Creative STEM Commons Makerspace will build on the existing resources of Wodonga Senior Secondary College to create opportunities for students to engage their creativity and apply their knowledge of STEM to the world of making. This will provide students opprtunities to discover, explore and develop their passion for making in a supportive environment.	
15/08/2017	The Cranbourne Carlisle mobile Maker Space	Through the use of The Cranbourne Carlisle mobile Maker Space, children from over 50 different language groups will be exposed to a variety of engaging learning opportunities revolved STEM concepts. A mobile set of materials will be moved throughout the school allowing children from over 50 different language groups to tinker and develop a new set of creation, construction and solution skills. A lunch time club will also be formed to cater for children who are inclined to problem solve or create, as opposed to play tiggy or basketball.	
15/08/2017	Space Camp USA	Students from Richmond North PS attend Space Camp USA in Huntsville AL, USA where they will complete an immersive educational program which includes activities such as participating in mission simulations, rocket construction, space history lessons, science experiments, multi access trainer activities and flight simulations. Also included on this excursion are visits to the Northrup Grumman facility in Los Angeles where the students learn about rocket construction and space exploration. We also visit the California Science Centre where students explore a range of 'hands on' science activities and participate in classroom lessons where the design and build items such as a rollercoaster in order to conduct science tests and experiments.	
15/08/2017	STEM experience at NASA	This project is on behalf of thirty year 9 students. Students have been giving up their after school time to work on an extracurricular project that involves them programming/writing a code that controls sensors on a piece of computer hardware. This code is then sent to NASA and their program is run on the International Space Station (ISS) for a 15-minute duration. Upon completion of the experiment, students will receive the raw data from the ISS, and analyse this against their initial hypothesis.	
17/08/2017	School Community Maker Spaces	We are going to establish mini-maker spaces in our grade 5 & 6 community as well as our secondary community. These spaces will allow students to have access to advanced technology - including the Hummingbird robotics kits. As these maker spaces are a permanent feature of the school community, students will be able to access them at all times - no matter what they're studying! This will mean that when students have an idea, they will be able to immediately try it out!	
17/08/2017	Workshop and Resource Centre, Rosanna Primary School STEM Garden	Rosanna Primary School has undertaken to develop a STEM garden dedicated to encouraging and fostering STEM learning in an outdoor environment. The STEM garden will draw inspiration from the natural setting of the school and provides ample space for a range of learning activities and building. Phase one of the STEM Garden project will be the development of The Workshop and Resource Centre . This element is pivotal to the overall project and allows staff and students to immediately start using the STEM garden area. This initial phase is designed to inspire and motivate staff and students to explore the natural environment and the experiment with a wide range of STEM activities at various levels.	
17/08/2017	Lysterfield P.S. Maker Space	The Lysterfield P.S. Maker Space is a dual purpose environment. - It provides a creative environment where students engage in exploration of ideas and skills, create, tinker and share ideas with others and work on projects of interest to them and their community. This is facilitated during lunchtimes, with allocation of different days to different Levels allowing students to access equipment in a comfortable environment while working alongside peers. - The space also exists as a project space where classes schedule times to use equipment and resources to facilitate projects with links from science and technology extending to a wide range of cross curricular capabilities.	
22/08/2017	Terang College Creators Corner	The Creators corner is primarily a place where students can gather to makes things. Students of all ages will have the opportunity to work on both class projects and tinker with their own personal projects throughout the day. 3D printing is a big component of the Creators corner, where students design, create and refine their projects by printing 3D models. Unfortunately, 3D printer filament isn t cheap, and with so many students using the technology, filament will be running thin in no time. Hence, the makerspace is designed to be self-sufficient. Not only will students make be able to make 3d printer filament, but they will do so by using recycled materials such as empty coke bottles or milk cartons using a filament extruder.	

22/08/2017	Pine Rivers SHS maker space enhanced by codable robotics equipment.	This project will focus on providing equipment for a recently completed maker space that was developed and furnished by the school, with an investment of over $50 000. This grant will be used to enhance the maker space within and beyond our school. Our Junior students will use this equipment to compete in the First Lego League Competition in term 4 and we have also invited two feeder primary schools to use the maker space and devices to participate in activities to enhance their digital knowledge and skills. These kits will also be used to enhance curriculum activities to provide students with opportunities to deep learn as part of our school focus.	
22/08/2017	Ludmilla Learning Maker Space	The activities cater for all primary school levels, and include tasks exploring Aboriginal perspectives. Students work collaboratively or individually when exploring Maker Space themes using hands on materials to explore the world of design concepts, engineering and technologies in the world they live in. This learning space is engaging and challenges the learner to use problem solving strategies and higher order thinking to develop their scientific and engineering understanding. This learning space is in the library to encourage students to explore their understanding outside of formal classes.	
22/08/2017	Myrrhee Maker Space	The maker space at Myrrhee will be utilised by all students on a weekly basis to teach the STEM areas of the curriculum. Myrrhee has had a long history with making and innovation and we wish to continue this on into the future. A space has been dedicated in the outdoor learning area which is undercover and partially enclosed. The area connects well with the outdoors and the adjacent bushlands where many STEM activities such as biological science and technology is also conducted. The outdoor learning area is also a hub where workbenches, power tools and electronics can be utilised. Once a week, all students from prep to grade six are involved in 'Making Day' where students work with mentors (local volunteers) to make personalised creations.	
22/08/2017	Junior School Maker Space	Emmanuel College has established a STEM-related maker space for Year 5 and 6 students to increase their awareness and understanding of STEM, and provide them with opportunities to give practical application to their gained knowledge. This grant will enable the purchasing of further tools and technologies to support the maker space. The Junior School Maker Space will give students an introduction and understanding of STEM, while allowing them to be hands-on with emerging and advancing technologies, while helping them to develop the skills and attitude to confidently innovate in the 21st Century. It is an area for them to learn, create, collaborate and innovate.	
23/08/2017	Building capacity for STEM at Elonera Montessori	Elonera Montessori aims to foster student engagement in STEM by establishing a designated robotics space and purchasing robotics kits and sensors to use in this space. The maker space will house a multipurpose STEM table which doubles as an equipment storage unit and a robotics tournament table. Students will work in the robotics space during science lessons, and will be given the opportunity to design and program robots that can be used for scientific measurement and data capture. The robotics space will also enable the school s active and enthusiastic robotics club to engage in robotics lessons and participate in robotics tournaments.	
23/08/2017	S.M.A.R.T. Maker Space: Collaborating, communicating and creating	The SMART (St. Mary s Adaptable Resource Trolleys) Maker Space draws together existing and new resources, tools and materials to make them more accessible for the whole school from Foundation to Year Six.This portable learning resource will be used by all students to develop, explore and express their thinking across the curriculum. A range of community partners--parents, grandparents, local businesses and organisations will support students and teachers by providing expertise in their field.	
23/08/2017	Inquiry Learning Centre where creative minds have no boundaries.	Our Inquiry Centre will be accessible for all students from Prep to Year 6. We will continue the conversion of a centrally located classroom into a dedicated maker space learning area. This will allow for exploration of the Digital Technologies curriculum and other STEM related activities in a designated maker space environment. Our maker space will incorporate a variety of materials including recyclables, purchased consumables, Lego, robotics and other technologies. Students will interact, innovate and challenge each other as they work through projects. Various staff will use the maker space for lunchtime interest groups. The space will also be used to upskill teachers as they work with a mentor through a collaborative coaching model.	
23/08/2017	Dynamic Dimensional Designers - 3D's	Pullenvale State School is committed to creating a MakerSpace that is highly engaging and gets students excited about learning. Our attending students (Dynamic Dimensional Designers -3D's) will visit at lunch, be given a STEM design challenge then be immersed in the design inquiry cycle It will be a safe place to creatively construct, problem solve, and question current thinking and ways of doing. The space will include low tech methods such as craft supplies, K'Nex, balsa wood, hot glue guns. High tech methods such as a 3D printer and electronic equipment will be available to cater for our Year 1 to 6 students. Our 3D's will be engaged in challenges to enable them to be strong critical and creative thinkers and problem solvers.	
24/08/2017	Microcontrollers The world of automation	This makerspace will engage middle and upper secondary students in the use of electronics with a focus on Microcontrollers. Students will first engage in simple circuit building activities and then progress into solving problems that utilise control technologies based on real contexts. E.g. Home security systems, shopping centre car park indicators, food vending machines, etc. Students will program Arduino microcontrollers to operate their system but also engage in the design and construction of the simulated context themselves. Students will utilise existing workshop facilities including CAD/CAM resources to complete the projects.	
24/08/2017	Garden Suburb Public School Maker Space	Garden Suburb Public School is dedicated to improving outcomes of our students through implementation and use of STEM based learning in the classroom. The school has the support of the P&C who has already donated money for our implementation phase and are committed to continued support of STEM learning in our school.	
25/08/2017	The Melton Makerspace Project	This grant will be used to help transform our current STEM classroom into a Makerspace that will be available to all students before school and at lunchtime. We want to enhance this current space with 3D design and printing. The purchase of 3D Design Software and Printers will allow students to design solutions to problems they are presented with and quickly prototype those solutions to test their efficiency. It will allow them to get a true hands-on experience of their designs, rather than just a basic design on paper.	

25/08/2017	Wanniassa School Junior Campus Makerspace	The maker space will encourage students to be creative with their learning, develop solutions to problems, engage with technology and incorporate investigative learning opportunities through experimentation and tinkering in a fully supervised, purpose built space. This flexible learning space will be located centrally within the school allowing students from Years K-6 access to the facility. It will provide both class groups and lunchtime STEM club student members the opportunity to participate in investigations and activities in a purpose built space equipped with a variety of materials and equipment. The materials will be stored in mobile trolleys, allowing them to be moved to different locations as required.	
28/08/2017	Coding with Innovation	This Maker Space will be used to engage students with coding activities that are relevant to their generation. By coding the DJ tool, MPC (Music Production Centre) students will be creating their own music and light 'shows'. They can make something spectacular, while learning how to code with a real life tool and be using the language of 'looping'. Our maker space would be set up in a spare space alongside our senior room . We will provide the computers to run the software. We will also provide furniture as required. The space will be introduced during class time and offered for selected lunchtimes. There is space for students to sit and chill.	
28/08/2017	Merri Maker Space: The Travelling Tech Trolley	The Merri Maker Space will be a portable trolley that will be used to introduce all students to the world of design, prototyping, coding and construction. The project will allow students and teachers to access the equipment they need to create a meaningful and productive makerspace within a classroom environment. This project will introduce students and teachers to world of STEM, through hands on, student led creations. Through this project, we hope to empower students to solve real life problems through a design and construction process.	
28/08/2017	Gen Makes - a space for challenge, curiosity, creativity & innovation	Gen Makes is a place where our Junior School students can immerse themselves in a variety of creative, iterative and stimulating learning projects where technology can meet art, where building can meet design and where the sky is the limit. A culture of creativity and discovery will nurture a passion for posing problems and answering questions in a space students will want to explore over and over. Interest can be harnessed in Gen Makes through the development of student leadership roles, weekly challenges, parent/child maker sessions and the sharing of projects through our College Newsletter and Learning Management System 'GenConnect'. This project has no end date we see this as just the start of something that can continue to evolve.	
28/08/2017	Year 3-6 3D Printing Maker Space	In our school, each learning neighbourhood has a dedicated construction (maker space), which compliments our learning common, performance, art studio and discussion spaces. This project will provide for the addition of a 3D printer to enhance this space in two of our learning neighbourhoods (3-6). This 3D printer will be used to produce 3D prototypes of designs, create 3D artwork, build resources to support our learning, create characters to enhance writing. This project will be led by the Digital Leaders in our the school and is in response to them identifying a lack of digital technologies in our construction (maker) spaces. They chose a 3D printer as a tool that can be used across different year levels and enhance their learning.	
28/08/2017	Mossie Park Makerspace	Mossgiel Park Primary School intends to repurpose the current general-purpose room as a student-centred maker space. The project aim is to provide students and teachers with a purpose-designed and equipped learning space for STEM-based activities, particularly robotics, engineering and digital coding. The space will be permanently redesigned to facilitate and support the students exploration of, and experimentation with, the various materials and new technologies, in order to promote the development of problem-solving and creative thinking skills. Student work and learning will be open-ended, project-based and cross-curricula, linking the STEM learning areas and the capabilities from the Victorian Curriculum.	
29/08/2017	St. Michael s College Project Maker Space	The St. Michael s College motto of Wisdom Through Growth remains at the forefront of our vision for Project Maker Space. We strive to provide our students with opportunities & skills that prepare them for successful lifelong learning in a society undergoing rapid growth and change. Our Maker Space will be a place where all student s & members of the College Community are welcome to create, invent, tinker, explore & discover in an environment where failure is embraced & continual experimentation encouraged. It will provide flexible hands on learning opportunities with designated construction/invention & tinker areas. Additionally resources will facilitate development in coding skills as well as creative design in stop motion & movie-maker	
29/08/2017	St Brendan's Maker Space	We'll be establishing a maker space with 3D design and printing at its core. Coupled with our Spheros, it will strengthen the STEM opportunities for the students in our small country community.	
29/08/2017	Loganlea State High School's STEM Maker Space	An unused manual Arts room will be converted into a STEM based Maker Space. This project is to cover the costs of purchasing the technical equipment to be used by the students of our high school and the students from the ENABLE primary schools. The Maker Space will be used by lunchtime hobby groups, Primary school days of STEM excellence program and by curriculum subjects that have embed STEM components.	
29/08/2017	Portable STEAM Project Kits	Our school delivers a program through distance education to isolated students, including on cattle stations, remote indigenous communities and ranger stations. Lessons are delivered daily via satellite technology. Once a term, students travel to Alice Springs to participate in a week long school program interacting with class members and teachers. The school will provide a multilevel session once a week to build students skills in Technology and Design and Engineering using a universal design and development framework. We will be providing a portable maker space kit for each remote family which they will use during the weekly STEAM lessons as well as a portable maker space for when students visit the Alice Springs based school.	

1/09/2017	The Sims Room Stem inspiring maker space	At Gagebrook Primary we are proposing the creation of an interdisciplinary maker space where the curriculum is coupled with real-world project-based learning. We envision the SIMS room to be a central base of resources, in a stimulating and engaging environment where students can go to be inspired and challenged to reach their full potential through the use of play, exploration and participatory learning. We are aiming to set up an area to develop a culture of creating as opposed to consuming. Our teachers will facilitate learning opportunities where connections can be made between our school and the wider community.	
1/09/2017	Forest Primary School Makers	A key value for our students at Forest Primary School is for them to become innovative. Creating a maker space that allows our students to have access to technology that enhances their learning will enable them to become creative and critical thinkers. The portable Makers Space will support teachers in transforming their teaching, challenging them to adapt their traditional teaching strategies to embed STEM teaching across the curriculum and ensure technology is a part of their every day teaching and not a stand alone subject. Our rural context allows this Makers Space to not only be used within the classroom but used to convert our school garden into a technology hub and digitising our school farm and learning.	
4/09/2017	Launching a Space for STEM	Following the endorsement of the Digital Technologies Curriculum, St Brigid s plan to implement a focus on developing teachers' knowledge and skill in Digital Technologies, integrated with Maths and Science with a particular focus on inquiry based learning. In 2017 the school is investing in developing a STEM Space through the purchasing of hand-on science resources and by making minor renovations. Our project aims to extend this current program to include the use of high tech, low tech and no tech tools. Providing the right environment along with the appropriate resourcing will be essential in engaging students in activities that expand their curiosity, willingness to explore and speculate on the changing world in which they live.	
5/09/2017	Innovative STEM flexible learning kits	The project aims to develop student-centred, flexible learning spaces for K-10 through the creation of mobile Maker spaces that provide hands on learning to create a deeper understanding of STEM concepts. This will create collaborative workspace for innovation minds to come together through a mentoring program between students.	
5/09/2017	Mater Dei College students go to USA Space Camp and Educational Tour	Mater Dei College is sending a group of 20-30 students to the EDU School Tours Space Camp/STEM Tour in to the USA. This tour is fully endorsed by NASA and offers hands-on training for students. They will participate in a rigorous program that teaches them about the mental, emotional and physical demands astronauts face and provides leadership training as well as learning the importance of teamwork. Computer and engineering skills are put to the test as the students design and test a virtual reality Mars rover as well as 1/6 gravity simulations, a Multi-Axis trainer and a Neutral Buoyancy Trainer. In addition the students will visit various air and space museums and engage in the history of US space travel.	
6/09/2017	CSPS Learning Hub Maker Space	The project at Casuarina Street Primary School (CSPS) will develop a "Maker Space" within CSPS Learning hub incorporating opportunities for student to build on core competencies / STEM capabilities. The Specialist teacher leading this project is identified as the ICT coach within the school and will work with all teams (P-6) to introduce and support the effective use of a maker space across curriculum and assessment design. This coach has worked previously in IT delivery and support across 13 regional and remote government schools supporting teachers to integrate digital and design technologies throughout their practice. Continuing this work as part of her current role at CSPS will be the integrated use of the maker space.	
6/09/2017	Digi Tech Options- Full STEAM ahead at Lansdowne Crescent Primary	The Lansdowne community have collaboratively identified a desire and a need for our students to leave Lansdowne as collaborative, creative,critical thinkers, problem solvers and communicators. During 2017, the Grade 4-6 staff have created Digi Tech Options , where students go to different spaces within our school and opt into courses including: Coding with Scratch, 3D printing,Robotics, Stop Motion Animation, GameMaker, MaKey MaKeys,GarageBand, & STEAM challenges.These vertical groupings allow our students to lead the learning of others and teach one another and staff. If successful, we will add to our digital equipment/storage, so that we can continue our journey of sharing our skills within Lansdowne but also the wider Hobart community.	
6/09/2017	Portable 3D Printer Stations	Glenelg Primary School has an enrolment of 820 students and space is at a premium. For this reason we aim to develop multiple portable 3D Printer Stations that can be used across the school to inspire students in the co-designing of STEM learning. Students will explore inaccessible objects and develop their skills as innovators and creators utilising 3D printing.	
6/09/2017	Curiosity Headquarters Juniors	Curiosity Headquarters Juniors is a hands-on creative maker space designed to support and connect 4-8 year old children s science, technology, engineering, art and mathematics (STEAM) learning. It provides young children with opportunities to gain practical knowledge and skills in innovation, design and technology, and to develop curiosity, inquiry, exploration and creativity through play and guided access to a variety of physical materials and digital media resources. It is a place where STEAM learning is active, fun and engaging. Participants will be introduced to the idea of entrepreneurship through the iterative design thinking process of designing, prototyping, testing, analysing, and refining a product.	
7/09/2017	Riverside Primary School Mobile, Pop-Up Maker Space	Our project will see the creation of a mobile, pop-up maker space that will be accessed by our whole school community. The pop-up space will be transported from classroom to classroom in order to provide students with a range of authentic and kinaesthetic learning opportunities. The project will include a range of scientific equipment, tools, digital technologies, safety equipment and consumable materials for students to utilise during their learning experiences. Embedded within all of these experiences will be the Australian Curriculum and the STEM framework.	

7/09/2017	Transformative Futures	The Lilydale Heights College Maker Space will have a focus on Robotics and Electronics. A current classroom will be utilised and used for lunchtime competitions to invigorate interest in the space and then an ongoing club will be created. The long term plan is to incorporate the use of the space into the curriculum in accordance with STEM initiatives.	
8/09/2017	St Michael's Collegiate Maker Space Project	St Michael s Collegiate School aims to provide a well-rounded education for girls. As part of our commitment to educating tomorrows leaders, we place a high emphasis on STEM through the curriculum. By creating a portable Maker Space, we aim to give all students, from Kinder through to Year 12, the opportunity to explore STEM and gain an understanding of the opportunities available to them.	
8/09/2017	The Tinker Space	The St. Jude's Tinker space will encourage creativity and problem solving skills. Through the use of various materials students will be able to bring to life their imagination as they seek to design, build and share their inventions.	
8/09/2017	Students are Inventors and Makers	The establishment of Maker Spaces in our school will provide an engaging environment for the effective exploration of STEM subjects. All students will have access to a large variety of both open ended and closed tasks and will be encouraged to further develop their knowledge and understanding of STEM concepts outside the classroom structure.	
8/09/2017	'When Technology and Art Collide.' - Using STEM to Create Art	The portable maker space will give students access to equipment that will assist them to develop and extend their skills in the area of STEM. Students will work collaboratively to follow the design process to use all or part of STEM to create original pieces of multi-modal art.	
8/09/2017	Vineyard I-Lab	To resource a specialist but flexible Innovation Lab (Maker Space) that would be utilised by the whole school to create, innovate and make, both within classrooms lessons and at lunchtimes to encourage student and staff engagement in STEM. The space would allow participants to work collaboratively and create prototypes which could be tested in the adjoining stadium. Resourcing would include consumable equipment, tools and construction materials and would enable students to utilise their Ipads and other hardware / software options provided. The space would facilitate optional after-school programmes to engage interested students into deeper investigations and inspire community participation.	
8/09/2017	Coburg Creatives Lab	Coburg Creatives Lab will become a senior school hub for design and technology. The space will contain elements of electronics, robotics, digital fabrication and construction. It will be portable, with equipment stored in a centrally located storeroom (The Creatives Lab) and transferred to classrooms as needed by dedicated trolleys. Bringing together existing and newly purchased equipment spread throughout the school, students will encouraged to design experiment and invent.	
8/09/2017	STEM Makerspace	We have reclaimed an unused environmental science room within the school to establish a STEM maker space and coding room. We are apart of a Questacon s Pilot Primary STEM Program and have begun professional development in STEM based activities to use in science programs. To implement this program we need a maker space for students to experiment with these hands on practical activities. This grant will facilitate the setup of this space and give teachers a space to integrate these activities into existing programs. The space will also facilitate a dedicated coding space for our Raspberry Pi coding project we have begun with industry professionals.	
8/09/2017	Project name for new STEM/MakerSpace Hub "Grow it, Make it, Solve it!"	Convert old Activity Room into a STEM Maker Space Hub that is directly adjacent to School Community Garden, thus creating a large indoor/outdoor hub to engage the minds of K - 6 students. It is a school priority to establish a creative space that is user friendly for staff, students & volunteers. The space will be used to develop 21st Century skills in our students, particularly collaboration & creativity. It will allow teachers the opportunity to deliver genuine, authentic learning experiences linked directly to the Australian Curriculum. This space will appeal to our students sense of inquiry & creation through hands on learning whilst blending it with engineering, gardening, entrepreneurship, Mathematics, technology & ultimately fun.	
8/09/2017	RDHS STEAM factory	The STEAM factory is about providing a space for staff and students to access and develop skills using industry level equipment. The space provides training and development sessions with a STEM focus, allowing staff and students to apply these skills in their teaching and learning.	
8/09/2017	St Martins Innovative Learning Environment	The SMILE is a space where students from ages 5 to 17 can gather and engage with current and emerging technology. The SMILE will incorporate 3D printers and scanning technology to whet student's appetite for innovation and creativity across the school. Students will be able to further develop industry relevant skills as they choose STEM elective subjects in secondary school. An additional aspiration is that this project will provide a stimulus to further development in the library to transition it to a Interactive Learning and Information facility.	
11/09/2017	Modifications to Innovation Space at the school	The Innovation Space will be a room that students can come to in order to bring to life projects that they have imagined in class. This is a space where innovation and design will engage and ignite student creativity. It is space where students can choose and use a variety of materials that are on hand and in ready supply. Tools will be accessible and used to complete designs. 3D printing will be available for them to design and make components that were once limited to their imagination. Students will be able to access the room with a specialist teacher as a part of their STEM lessons or as a smaller group working on class based individual learning projects with support from a teacher.	
11/09/2017	If you can imagine it you can make it.	This project is part of a vision to enable students to bring their imaginations into reality and develop their creative, innovative, entrepreneurial skills. Inquiry based transdisciplinary units currently give students the opportunity to use the TELSTAR process to explore STEAM subjects. The addition of this equipment into our makerspace will enable the act section to go to a whole new level of product, skill, understanding, thinking and creativity level.	

11/09/2017	WestTHINK Makerspace	WestTHINK is the umbrella term for STEM learning and teaching and the pedagogical approach focusing on building foundational skills in STEM learning areas. Our Makerspace Project will: - develop mathematical understanding - build scientific literacy and inquiry skills - increase their technological skills and literacy - focus on using digital skills for enhancing learning - use art and design principles to connect learning and allow innovation - promote the development of problem solving, critical analysis and creative thinking The grant funding will allow the STEM Steering Group to realise the Makerspace Project. The identified learning space will house the furniture and resources we require to develop the above skills.	
11/09/2017	Establishment of a 3 Dimensional Makers Space	Establishment of a 3D Makers Space within Parafield Gardens R-7 School's newly renovated STEM Works facilities to inspire, engage and enrich the STEM teaching and learning outcomes of the students.	
11/09/2017	The Collaboratory A space for creative collaboration	The GNLS Collaboratory will be a vibrant, welcoming space, frequently used by students, staff, parents and community for a variety of innovative and collaborative STEM projects. As a dedicated space, it will provide a permanent place within the school for students and teachers to explore STEM related ideas. It is anticipated that the establishment and promotion of the Collaboratory would result in innovative and meaningful cross-curricular projects involving STEM subjects, leading to improved student learning outcomes. The Collaboratory will provide opportunities for sharing and showcasing of student creativity and increased partnerships between the school and wider community.	
11/09/2017	Portable Pro-bot Maker Space	We are establishing a portable Pro-Bot Maker Space to bring logo programing into our classrooms. By developing a trolley/box system, based in our library and including site licence software, we are creating a flexible model to meet the needs of our classes as they implement the Australian Curriculum.	
11/09/2017	Laser cutter to enhance STEM learning at Tumby Bay Area School	Tumby Bay Area School is keen to build its capacity to engage students in STEM related learning activities. At present STEM related activities are delivered across the primary and secondary school predominately through the Science and Design and Technology learning areas. This currently happens in existing workshops, laboratories and classrooms. Our site is currently looking to bring these activities together into a common space that can be readily accessed by primary students. A laser cutter has been identified as the most effective tool to readily engage students from varying levels in STEM learning activities. This is a technology students to which our regional students are not currently exposed.	
11/09/2017	SJCC Maker Space on the Move	The SJCC Maker Space on the Move will be a portable workstation that will provide access to valuable resources required for the successful development, integration and experience of STEM skills by our primary students. The storage of the maker space in a communal area and the portable nature will ensure that all teachers are able to use the maker space to improve student outcomes in Science, Technologies, Engineering and Mathematics. The SJCC Maker Space on the Move will be used by all classes from Kinder through to Year 6 and will provide the resources required to encourage students to tinker and apply their knowledge of STEM in a creative way that is centred on inquiry based learning.	
11/09/2017	STEM Makerspaces building inquiry, across the primary curriculum.	This project aims to incorporate a wider variety of STEM based future-focused resources (3D design and printing, electronics and programming) to develop students critical and creative thinking skills within the primary classroom through the use of a portable maker space. Students will experience different strategies to approach problems and work to bring the STEM disciplinary knowledge together to develop diverse, robust and innovative solutions. The aim of these experiences is to enable a deeper understanding of and engagement with the curriculum beyond the classroom environment. It also allows students to see how disciplines integrate to provide varied solutions to real-world challenges. The project will also resource a science club.	
12/09/2017	FABLAB Makerspace	The FABLAB Makerspace will be a place where students can come together to collaborate; to share and initiate ideas in an environment that is conducive to risk-taking. A place where students can investigate, devise and create; use a variety of tools and materials to develop dexterity of mind and body in activities as broad as bridge building to CAD/CAM and 3D printing. This will be a space that students can take responsibility and ownership of, using it independently or facilitated and guided by mentors. Teachers will have the opportunity to utilize this space within and across the curriculum or with small groups before, during and after school.	
12/09/2017	Elanora State School Maker Space	Elanora State School Maker Space is a designated place in the centre of our school where students can gather to create, invent, tinker, explore and discover using a variety of tools and materials. Students are encouraged to use tangible materials to design, explore and test their innovative ideas.	
12/09/2017	Malanda Farmbot integrating robotics, science, agriculture and coding.	The Farmbot maker space at Malanda State High School integrates the future of growing food where students can program a robot that can plant, water and weed crops. Students will have access to a range of rich learning opportunities with the farmbot that can be integrated into a range of subjects including maths, science, computer studies and industrial design. The Farmbot is open source meaning that the computer coding and the tools that it uses can all be modified by the students allowing for a range of problem based learning scenarios. This maker space will provide an ongoing experience for Malanda State High students in the future of automation and food production.	
12/09/2017	The Neerim District Secondary College - Laser Engraving Lab	The NDSC Laser Engraving Lab will allow our students to revolutionise the way they interact with materials technologies and arts across the school, inspire creativity and make links between disciplines, using the exciting technology of laser engraving and cutting. The dedicated space in our school, will be fitted out with school safe engraving equipment, which will be accessible to teachers and students during class time, to add creative flair to their projects. As well as be an exciting way to engage our students in lunchtime programs and show them the full potential of this emerging technology and industry.	

13/09/2017	St Andrew s STEM Centre Maker Space	St Andrew's will establish a STEM Centre Maker Space which will be both a permanent and portable Maker Space within the school's dedicated STEM Centre for all students to use. The space is currently predominantly used by Year 6 and 7 students but, with the resources purchased using the grant, the school will improve the access to design and technology equipment supplementing our already established science resources. The Maker space will be more accessible to all students from ELC to Year 7. Further, a dedicated Maker Space trolley will be organised and stored in the STEM centre but available for classes to move about and use in different spaces within the school.	
13/09/2017	Redeemer Maker Space	The weekly Redeemer maker space will provide opportunities for all students from Reception to Year 7 to gain experience in, and develop a passion for the STEM subjects. It will further develop the student s knowledge of technological advances, by providing them with equipment such as drones and 3D printers and will support the implementation of the Digital Technologies curriculum. By engaging students in this field we hope to help develop individuals that are passionate about technology and may become lifelong learners and entrepreneurial leaders of the future.	
13/09/2017	LRPS Maker Space: Fostering innovation and collaboration	LRPS will develop a STEM-related collaborative & creative learning environment to provide opportunities for students to design, create & collaborate to produce creative solutions for problems. While based in the art room, as a portable solution it will provide maximum accessibility and use. Initial activity will include guided activities so students and teachers become familiar with the design thinking process and with creating, experimenting, failing and succeeding. The program will then move to open enquiry-based investigations. The expertise of the Champion, along with school community members, will provide teachers with professional learning to ensure continued success. Showcase events will allow student sharing and feedback collection.	
13/09/2017	littleBits for big learning at Beaconhills	Our Makerspaces started early in 2017 in a dedicated space in each campus Library (Pakenham and Berwick) to support the STEM curriculum with resources to facilitate open-ended maker learning opportunities and provides STEM co-curricular activities for Junior, Middle and Senior students. To extend the reach of STEM making into the curriculum, we will purchase littleBits STEAM kits. Initially (2018) these kits will be used by Year 5 students in their integrated STEM units as part of the classroom curriculum. The project will gradually roll out to other year levels. From 2018, the littleBits kits will also be available for independent creating and tinkering by all students from Year 2 to 10 outside of class time.	
13/09/2017	Making The Future at King s Christian College	The King s Maker Space will be a space where students can develop and practically apply their STEM knowledge, develop entrepreneurial skills and gain experience in working with emerging and advancing technologies. With a key focus on developing greater creativity and innovation in our Primary age students, the maker space will provide a hub for every student from Prep to Year 6 to engage in STEM based research, collaborative discussion and activities with teachers and peers, and innovative ideation and design. Ultimately the maker space will provide a platform from which students can access the tools, equipment and resources required to bring their innovative ideas to life.	
13/09/2017	Developing Drones and Robotics with the ADHS STEAM Club	Recognising that we had a core of nearly 50 interested students, the ADHS STEAM club was started in 2017. Our goals are to enable the interests of students to be pursued and their skills in STEAM subjects enhanced through individual or group projects. We have 2 dedicated teachers trained in technology and science and a workspace we hope to enhance in the future that will house the necessary resources. This grant will enable student projects in Robotics and drone development to go beyond simplistic designs and cobbled together models toward valid engineering construction. This will enable our students to fully engage in the problem solving, hands on nature of STEAM topics and allow them to become problem solvers of the future.	
13/09/2017	STEAM Spaces Maker Project	We are seeking a grant to expand our commitment to a learning culture of Innovation with the objective of increasing the STEAM opportunities of our learners along with the confidence of our staff to provide learning experiences within the Digital Technologies curriculum requirements along with supporting parents to understand education in the 21st century. The objective of our STEAM Spaces project is to have a school wide focus on with a dedicated STEAM boxes and spaces through out the school for all stakeholders in our community. (parents, educators, support staff & learners) to work collaboratively on innovative and creative digital technology projects.	
14/09/2017	Spensley Street Maker Space	The school will establish a flexible learning maker space to enable its 370 students to engage in creative thinking, design, problem solving and collaborative learning, by transforming a 52 square metre space, formerly a boiler room. Students will have increased opportunities to develop digital skills and to create longer term, individual and group projects. All sixteen classes, plus a Makers elective group, Solar Boat challenge students and an elective group for girls will use the space. The maker space will enhance the school s existing Digital Technologies specialist program, encourage students to apply their STEM knowledge, and extend their experience working with advancing technologies.	
14/09/2017	Maker Library	The Maker Library will store makerspace equipment and resources that is catalogued, can be viewed on the Library catalogue and can be borrowed out to different classes and teachers for a variety of makerspace projects across our three campuses.	
14/09/2017	An Innovation station for every child.	Maker spaces are becoming increasingly popular in schools throughout Australia. As we set out to create and identify our own space, we will keep the following in mind. Our maker space will be unique to Camp Hill IPS. It will be a place where students can come together to use, and learn to use materials as well as develop creative projects. The important idea is that it is a place that can be used for a range of activities with changing and flexible educational goals and creative purposes. The Maker Space room will be available to all year levels and all abilities. During breaks and in the afternoons extension and enrichment groups with an entrepreneurial theme will be conducted.	
14/09/2017	WeDo Robotics, Create, Problem Solve and Code	Edi Upper Primary School will have a creative space established for students to design, make, program and problem solve - using WeDo Robotics - Lego and curriculum resources. in addition to formal lessons, the resources will be available for student use in the designated room which will be known as the maker room. This space will be set up with workstations where students can work individually, in pairs or small groups.	

14/09/2017	Mount Gravatt State School Workshop and Construction Centre	Our Maker Space will support student engagement in Technology by providing hands-on experience in the design, construct and appraise process, and by offering students the opportunity to develop practical skills and apply their knowledge in a real-life situation. We will use the Maker Space to support not only our Technology program, but also as an adjunct to our Arts and Science curricula, particularly through creating props for the annual school play and in supporting construction challenges associated with our existing STEM and Robotics programs. The Maker Space will also be used as a means to better engage students who have specific learning needs and who require significant differentiation in their educational program,	
15/09/2017	Citrus - a self-service auction based advertising engine	Citrus International Pty Ltd has created a self-service, easy to install advertising engine that enables retailers with online stores to monetise their online shelf space by auctioning the premium positioning on a page to participating FMCG advertisers on a dynamic, real-time basis using a proprietary algorithm. Entrepreneurs' Programme commercialisation support will help accelerate the rate of development of the generic product, its scalability and availability to international retail and FMCG manufacturers in Australia and the USA.	
15/09/2017	Maker Spaces and Tinker Tables	The school intends establishing a creative and stimulating Tinker Table in each of our Year levels R-2, to be shared with all year group classes. This focus will continue throughout the school by introducing a portable STEM Maker Space area in the library which can be used by Years 3-7. Parents and the community would also be encouraged to participate in the Inquiry process through community events.	
15/09/2017	The Meriden Maker Club	The Foundry is Meriden School s makerspace, a dedicated place for exploring maker learning and STEM related projects. Meriden has made a strong commitment to encouraging young women to pursue interests in STEM through education and co-curricular clubs, like Maker Club. Meriden offers classes that allow students to explore robotics, engineering and 3D printing. Now The Maker Club allows girls to extend that interest and play with technology. The overarching ethos of The Foundry is to empower students to become the creators of tomorrow rather than consumers of technology.	
15/09/2017	Holy Family STEM Makerspace	Our Holy Family Makerspace will be established to cater for all students within our school. This space aims to provide creative time and space for students of varying ages to build prototypes, explore questions, fail and retry, bounce ideas off one another and build something together. We endeavour to purchase materials that will allow our students to enjoy all aspects of STEM. It will be available for all classes to access and will be established as a permanent fixture in our school.	
15/09/2017	STEAMarvellous	While we endevour to integrate STEAM into the classroom and into all curriculum areas as much as possible, having a designated and centrally located area in the school in which our STEAM technology and resources can be stored and maintained would help us to better manage and plan how we use all of our STEAM resources. This space would also be used for specific class projects and our afternoon STEAM club activities that run every Friday. Any grant money received would be put to use in the readying of the identified space (storage, power outlets etc.) and the purchasing of more equipment to add to sets we already have.	
15/09/2017	Developing Skills for Tomorrow s World Integrating Technologies	We will establish a maker space to be used across the high school year levels. In their junior years students will use the space to identify creative solutions to electrical and 3D design problems and, in so doing, develop their skill and knowledge base in electrical circuitry and the materials and tools used for 3D printing. In the middle years the space will be used to extend their skills to the use of microcontroller-based technology and coding to create digital solution to student identified problems. In their senior years students will combine their skills within a Systems Engineering course. Throughout, the use of the maker space will be integrated into existing technology classes and tied to knowledge gained in other STEM subjects.	
18/09/2017	MakeIt! CreateIt! @TyndaleSE	The Tyndale Salisbury East Resource Centre will be establishing a portable maker space to use in variety of areas in the School, though it will be stored in the Resource Centre. Students in Years 2 to 5 (Junior School) will be able to access and use the maker space under supervision at lunchtimes during the week as part of our MakeIt! CreateIt! group. In addition, the maker space will be bookable for Tyndale Salisbury East staff to use with small groups or individual students in regards to maker space and STEM activities. We would also like to run and facilitate PD sessions for staff on digital technologies using this portable space.	
18/09/2017	STEM across the school	Our project aims to provide portable, easy access Maker Spaces that can be shared between classrooms. The Maker Spaces will be used to enhance student learning in the STEM areas. We are developing an age and ability appropriate STEM curriculum across the school. Teachers will be given access to the equipment needed, through the Maker Spaces, to develop engaging learning activities that are designed to meet multiple curriculum objectives for all year levels. Our school is currently working to develop a STEM curriculum and are at the beginning of the process. An ICT committee has been established at the school for the first time, with the purpose of implementing STEM in the curriculum and resourcing classrooms in order to do so successfully	
18/09/2017	Technologies - STEM Project - Constructing a Digital Light Cube	Students will work in teams in the maker space to construct a digital light cube following the maker principals of hands on learning. During the project they will learn about digital electronic components and how to solder these onto a circuit board to build an Arduino computer system. They will then assemble a cube lattice of LEDs using soldering irons to a circuit board. They will then attach the LED cube to the Arduino. They will learn how to program the Arduino board to create a series of flashing patterns. They will then use a CAD package to construct a housing for their light cube. Depending on access to resources they will print their design on a 3D printer or laser cutter.	

18/09/2017	Wendouree Primary's 3D Printing Hub	We wish to establish a 3D Printing focused Maker Space at Wendouree Primary School. Students will be taught how to use CAD software to solve STEAM-based mini challenges, designing, modelling and printing prototypes using 3D printers purchased through this grant. Links to the Victorian Mathematics, Science and Art Curriculum will be made throughout the planning of activities and will provide our students with a hands on approach to bring their ideas and creations to life. Students will be printing objects using a variety of different filaments including ABS, PLA, PVA, nylon, flexible plastics and wood. They will investigate the strengths and properties of each filament and determine which projects each would be useful for.	
18/09/2017	Star of the Sea Maker Space	To improve student engagement and understanding of new and creative technologies, Our Lady Star of the Sea School will develop a 'Maker Space' providing students with digital resources and teacher support to develop innovative skills, build new knowledge and utilise technology in new ways through projects and tasks that are based on real life scenarios and problems.	
18/09/2017	Portable Maker Space & Robotics	Our maker space will be portable and shared. It will be a trolley that incorporates digital technologies and an electrical tinkering maker focus for all primary levels. Students will engage with Sphero, Makey Makey, Bee-bots and circuits to increase their understanding and problem solving in programming, design and cause and effect. We are an inquiry driven school and these hands-on tools will then be used within student inquiries in all areas of the curriculum to improve student outcomes and engagement for students. Teaching teams will be supported in facilitated planning to look at ways to embed STEM skills and ways that using these hands-on tools will address the curriculum and future work place skills required by our students.	
18/09/2017	Make, Tinker, Innovate, Collaborate and Create	Rosanna Golf Links Primary School has begun in it's push to drive STEM projects and student learning in school already. A team of students with teacher support built a 3D printer in 2016 as part of a project to engage girls and reluctant readers in engineering and STEM. The printer has been used for students to engage with the Victorian Curriculum across a broad range of activities. We are wanting to build a Make, Tinker, Innovate, Collaborate and Create space in our Art Facility to become a purposeful space to grow our students skills, knowledge and enthusiasm towards STEM. We have a culture and passion for inquiry and believe with some additional resources we can grow this into strong lifelong connections for our students to STEM.	
18/09/2017	Newlyn Primary Makers	The maker space at Newlyn Primary School will be designed to cater for our mixed age classes. Students will work together in small teams made up of students from all year levels to allow for valuable peer and collaborative learning. It will be a multi-technology space incorporating electronics, robotics, coding, woodworking and soft material construction. Students will work on student and teacher directed STEM projects using the technology development process to solve problems. The maker space projects will be STEM based and have strong cross-curriculum links.	
19/09/2017	St John s College STEM Double Helix Maker Space	The need to boost interest and capacity in STEM has been identified as a national priority crucial to Australia s future. With this in mind, St John s College has been running our STEM Enrichment Program for a number of years. The program includes enrichment days, competitions, Olympiads, Double Helix clubs and Tournament of Minds. Our aim is to provide equipment to address STEM outcomes and provide a greater opportunities to inspire, engage, challenge and extend using a flexible portable STEM trolley that would house tools, sphero robots, solar cars and sustainable housing kits. Activities take place in the classroom and outside, within the curriculum and extra-curricular. Our STEM enrichment program challenges the head, heart and hands.	
19/09/2017	Developing an innovative space to nurture our future creators.	The project will leverage the current STEAMakerspace lunchtime activities transforming to a well resourced fully functioning dedicated STEAMaker classroom timetabled into the Digital Technologies curriculum for Years Prep to 6 in QLD s predicted largest Primary School. A Digital Technologies Coach will plan and work with Year Level teachers to design and co-teach a STEAMakerspace program integrating the Australian Digital Technologies Curriculum with Year Level STEM cross-curricular opportunities. Using an Inquiry-Based Learning model students will identify problems in the local community and explore opportunities and create digital solutions to real world challenges using a collaborative peercoaching method.	
19/09/2017	STEM Lab upgrade	Dookie PS endevours to develop a STEM laboratory for students to continue thier development of Robotics, Coding, Engineering projects and Science lessons. We plan to develop a space that allows students to plan effectively, discover through experiments and trial and error projects and design solutions to problems using 21st Century learning marterials.	
20/09/2017	Notre Dame Thinkers and TInkers Space	The Notre Dame Thinkers and Tinkers space will be located in the Notre Dame School Library. There is currently an unused corner space in the library that would be able to house the maker space. This will recreate the library from being the traditional library model to a contemporary space that supports and encourages hands on activities and fosters creativity, problem solving and computational thinking. If we are successful, the space will cater for students from years 2-6 who will have opportunities to be involved in hands on activities that challenge them to seek solutions to problems. Students will be able to use their library times for collaborative group work, deconstructing and reconstructing knowledge and discovering and creating	
20/09/2017	Calare's Future-Focused Learning Hub-Makerspace	Our Future Focused learning vision is to extend our current key focus areas of Creativity, Collaboration, Communication, Critical Thinking, Reflection and Technology through the development of a Makerspace. The conversion of an annex off the Future Focused Learning Hub (previously library space), would allow the development of two symbiotic learning environments that would immerse students in rich STEM based learning tasks, further enhancing their access to the latest technologies, whilst developing their entrepreneurial skills through learning based around creative design and innovation.	

20/09/2017	Gilgandra High School Maker Space	The maker space will be used to foster creativity and inquiry based learning. This space will be used to experiment, design and make projects that are STEM related in settings such as STEM classes and lunchtime mini maker project activities. The space will be collaborative and accessible to all students and teachers as well as the local primary schools. With lessons designed to allow student to gain experience and develop skills in design, technology, innovation and entrepreneurship. Teachers will be encouraged to observe maker lessons to enhance their professional skill set, and use the maker space for their own classes and to gain professional development in STEM related activities that they can use to further enhance student engagement.	
20/09/2017	O'Connor Makerspace	This grant would enhance the work started at O Connor and provide students from rural and regional areas equal access to high quality facilities. The project will lever off existing facilities to establish cross curricular creation/fabrication space - O Connor Makerspace. We will create a cross curricular space for the implementation STEM subjects in all year levels to ensure access to 21st Century Digital Prototyping and 3DCAD/CAM equipment. The project will transform an existing classroom into a makerspace environment. The grant will create a space that is project-based, collaborative, contemporary and engaging. It will also enhance cross subject collaboration and provide a space enhance students' skills necessary to live in 21st centur.	
20/09/2017	Creation of Maker Space for STEAM Implementation	The purpose of the grant is to establish a Maker space to support the work of the TAS, Science and Visual Arts faculties in developing and delivering Stage 5 STEAM as well as supporting the work of the students through our Enrichment programme.	
20/09/2017	Geraldton Grammar School Maker Space	The Maker Space will provide an area for students to learn both coding and 3D printing skills together with other skills in STEM education. The purpose of the project is to increase engagement of students and staff in the innovation and enterprise made available through the maker space.	
20/09/2017	Trinity Maker Collaboratory	Trinity's Maker Collaboratory is a central facility in the school's ambitions for a comprehensive and systematic integration of STEM learning into the lives of students at the College. It is intended that the result of this space is more students undertaking formal and informal experiences that allow them to tinker, design, develop solutions, problem-solve and generally engage more with their learning particularly in STEM related subjects and to prepare for STEM futures beyond school.	
20/09/2017	St Mark's College - STEM trip to the 2018 Space Academy USA	Students from St Mark's College attend the Space Academy where they experience STEM immersion activities such as astronaut training exercises, mission simulations, space history lessons, science experiments, multi access trainer activities and flight simulations. Students then visit the Northrup Grumman facility in Los Angeles where they learn about rocket engineering and construction. We then visit the California Science Centre where a range of 'hands on' science activities, such as a roller coaster construction; and classroom lessons to learn team building and project management skills.	
21/09/2017	Banksia Montessori School - Little Hands Learning	Younger children often have difficulty mastering their left and right. Practise is needed to follow a sequence of instructions. A sequence of instructions such as left, right, backwards and forwards can be beneficially mastered by applying them in different contexts using different technologies. Coding a robot to go in different directions gives the children an exciting opportunity to practise these skills. After mastering these skills they can extend their literacy and numeracy skills by designing, creating, using and evaluating their own Directionality boards. The children will use materials in the Maker Space to create these Directionality boards. The making of these boards will incorporate skills in areas of literacy and numeracy.	
21/09/2017	Making the abstract real through Virtual Reality E-STEM.	The Makerspace to be established will focus on the world of Virtual Reality, allowing students to explore, experience and be involved as if they are actually present in the environment or place. This virtual reality makerspace is an effective way to engage with students of all personalities and with a variety of learning styles. Virtual reality offers scope for product design, electronics, coding and design. It also promotes empathy and understanding of people s differences thereby contributing to solving the challenges of a complex world.	
21/09/2017	St Lawrence Maker Space	This project will allow our school to establish our Maker Space with resources that will benefit all students at the school. Our current school focus is integrated learning through the use of STEM and Project Base Learning.	
21/09/2017	Bundalaguah Primary School Maker Space Project	Our project will be focussed on giving our students located in rural areas access to new technology for coding lessons, problem solving activity and to build their creativity and design skills. We will be purchasing Lego Minstorms materials to assist with students learning tasks. We will be using our library as a base for the learning space which will allow focus lessons for teacher and use during lunchtime activity. This could form basis for an introduction of a lunchtime coding/design club for students.	
21/09/2017	Holy Rosary Maker Space	Our library Maker Space will foster creativity, problem-solving and computational thinking for our students. Teachers will build students curiosity and connect STEM learning to solving real world problems through enquiry based hands-on learning experiences. We are transforming our library from a traditional model to a contemporary one that encourages real world problem-solving skills and inquiry based learning in an engaging, hands-on environment. Students will have opportunities to tinker, explore, discover and create new things using a variety of tools and materials. There will be a particular focus on using digital tools and robotics with other natural or recycled materials in the problem-solving process. As we gain confidence in us	
21/09/2017	Binya Maker Space	Binya PS Maker Space is an area where students can use creativity, problem solving, resilience and collaboration to enable programmed, curriculum based learning. They will be able to use and enhance their robotic and technological skills as well as experimenting and building solutions to problems.	

21/09/2017	Mayfield Make and Create!	St Columban's will crate a new learning space in an existing unused classroom. This space will be used to encourgae creative and critical thinking through 'hands on' maker projects. Teachers will be able to utilise the space with their classes for collaborative group work, and targeted small groups of students will undertake extension projects in the maker space. The maker space will be a permanent facility for the use of students and staff. It will be an evolving project with additions and improvements made as time progresses.	
21/09/2017	Lakes Entrance Primary School ThINKER Club	Lakes Entrance "Thinker Club" will allow students from our school and members of the wider community to participate in our Maker Spaces, Robotics, coding, Information and Communication Technology and Engineering Challenges within our new STEM room. Spaces are available to create, design, make, tinker, invent, learn and embrace necessary skills of the future. Our aim is to provide hands on opportunities to close the digital divide, increase understanding of digital technologies, enable differentiation and develop confidence and interest from our indigenous population (25%) and girls. Participation in STEM competitions created by the ThINKER club and other organisations will increase opportunities and empower our rural community.	
21/09/2017	Stella Maris STEM Initiative	Stella Maris Catholic Primary School has identified STEM as a focus area as part of our ICLT three-year plan. We are going to create a maker space to encourage students to experiment with STEM.	
21/09/2017	STEM it! makerspace	Our STEM it! makerspace will provide a central 3D printer and software to encourage students to get excited about creating. The student's planning, designing, and creative-thought processing will be rewarded as they see their creations literally grow before their eyes. Although STEM it! supports Science, Technology, Engineering and Maths, the tools provided will give opportunity for all Victorian Curriculum Learning Areas and Capabilities to benefit. Students could design a model for a new-age museum, create miniature figurines for a Humanities assignment, or build a robot for Technology - the possibilities are limitless.	
21/09/2017	J.E.P.S.' Maker Space - Creating our future	The school library already has the basics for a maker space - providing the students with a limited opportunity to design, collaborate, explore, test, modify, make mistakes and have successes. Also allowing the class teacher to develop new skills. This grant would be an incredible enhancement of our basic beginnings. It would allow classes to use a much wider variety of materials, and also allow for the library to open twice a week at lunch for extra maker time, where students can complete challenges, design, build and test. Our students see STEM time as one of the highlights of their week. This would be invaluable.	
21/09/2017	THLHS STEM Maker Space	A former computer room is being transformed into a maker space room for use by STEM and digital literacy classes. This room provides appropriate furniture and tools allowing students to work collaboratively on activities involving algorithms and programming, 3D printing, preparation for the Science and Engineering Challenge, and other timetabled STEM classes as well as incursions. Students will gain skills in investigating, designing, producing and evaluating projects and products. This space will champion our school's How 2 Learn focus being an area where an open mindset is encouraged, mistakes embraced and persistence fostered.	
21/09/2017	Let's Dream, Create and Innovate	A dedicated makerspace will be established at the school in 2018 for all students K-6 can access before school and after school, during STEAM lessons (team-taught with the STEAM specialist and the classroom teacher) and during lunch times. This makerspace will be utilised to ensure that all students' love for design and make through Project Based Learning is further exemplified. Students will work collaboratively with other organisations and community services where they will receive mentoring & have many opportunities to proudly showcase their work. Teachers will receive extensive professional development, data will be collected and the school to be a lighthouse school to other schools within the community such as the Wingara community.	
21/09/2017	Robots - Realizing Our Brilliant Opportunities(with)Technology	For too long technology has been confined to devices. We need our students to be able to create, plan, apply, access and adjust their ideas. I see robotics as the perfect, logical link between the cyber and physical worlds as robotics is the perfect avenue for students to apply their coding to the "real world." To date our students have been mainly tinkering and coding in our maker space. This is predominantly done through lunchtime clubs. I would love to start bringing classes to the maker space, through a more formalized program, that would sequentially build on student knowledge and creativity throughout their school years. I would use this grant money to purchase robotics that would support and enhance this concept.	
21/09/2017	Create, Construct and Collaborate - CCC Space	Our Create, Construct and Collaborate CCC Space will focus on further developing the STEAM skills of all our students. This will range from nurturing the engineering and design principles behind creative play and construction with lego for Prep students to older students using the space for creation with digital technologies and for science based experiments. Our CCC Space will be on wheels so that it can be located in open space at the centre of our small school, or scoot off to classrooms for specific lessons. The space will be enable children to gather round to engage, collaborate and problem solve together, with the central focus being a huge lego construction or white board tray. STEAM and inquiry learning are curriculum priorities.	
21/09/2017	To Infinity and Beyond: Challenging young learners through play	As we prepare our students for a world where current challenges may no longer exist and new ones are yet to emerge, the importance of strengths and skills, such as persistence, imagination, co-operation and teamwork, resilience and coping with failure, will only increase. This space is designed to provoke thinking, by providing the students with opportunities to explore how things work, how things go together and how we can build things with what we have. For generations, tinkerers and inventors have been providing ways around problems, using a little bit of know how and a lot of trial and error, so to this next generation of builders, innovators and problem solvers can begin their own journey of exploration.	

21/09/2017	Sacred Heart - Making the future happen now	The central aim of our project is to positively resource our school Maker Space so that it can be positively utilised by the whole school community. We have designed a STEAM based extracurricular program, as well as enrichment clubs which run across the school for students from Kindergarten to Year 6. The STEAM enrichment program provides all children with opportunities to explore and develop their knowledge of coding, 3D modelling and printing, engineering, electronics and robotics. To maintain the positive development of this program the school infrastructure needs to be improved to meet to the growing technical demands of facilitating these learning opportunities, ensuring that the school is able to keep up with the natural progression.	
22/09/2017	St Mary's Catholic College Gateshead - Creation & Imagination Station	St Mary's Catholic College Gateshead believe the most important focus of any makerspace is about creativity. Many institutions have made the mistake of purchasing the latest technology and not focusing on the mindset of the students. The art of making/tinkering and the beliefs behind that are a key part of 21st century education. While we have a very successful STEM program the opportunity to embrace 'design thinking' across the whole school is now our priority. While the latest technologies are valuable it is imperative that the fundamental purpose is kept in mind, students using their hands and minds to create and solve problems. It is important that the space remains as flexible as possible to cater for all subjects working on a diverse range of projects simultaneously.	
22/09/2017	DHS TEC Space (Tinkering, Engineering, Crafting)	We are developing a space that can be used by our students in their breaks to test out their engineering skills, craft new objects and repurpose old objects. Students will have the opportunity to develop skills in design, prototyping and testing, coding and electronics, as well as generally hang out with like minded people. Regular challenge events will give students an opportunity to see how their solutions to problems compare to others and they can collaborate on how to improve their own designs. We are promoting design thinking and problem solving skills, while having fun and using STEM skills.	
22/09/2017	Futures Learning Maker Space for Tuncurry Public School	As a regionally-based Primary School in a low socio-economic area we need to ensure that our students do not miss out on the opportunities, afforded by a move to Futures Learning in NSW Public Schools, that are available to big city and wealthier schools. To provide them with the resources, challenges and excitement that will develop the skills required for jobs in the new Digital Age we will update our Library to become a Futures Learning Commons. We will incorporate a Maker Space, update our Technology Hub by replacing desktop computers with laptops and add flexible furniture including sit-to-stand options to promote collaborative learning. Our Maker Space will use the existing Library Mezzanine Floor and adjacent break out area.	
22/09/2017	Tiny Entrepreneurs - LittleBits Maker Space.	With our LittleBits Maker Space we intend to challenge our students with this provocation: Investigate the attributes and skills of a successful entrepreneur. Use design thinking processes to plan an entrepreneurial venture and develop prototypes of your ideas. Your venture must identify a need within our community and a designed solution. Children will experience: - Hands-on experience working with emerging and advancing technologies - Authentic opportunities to design solutions to real-world problems and ideate their entrepreneurial and innovative ideas - Critical and creative thinking skills through design processes - Problem-based inquiry learning	
25/09/2017	Australian Islamic College: Dianella will set up a permanent workshop style designated Maker Space.	A permanent maker space will be incorporated into a workshop style classroom for ease of access and in-corporation to current systems in place at the school. Students will be given an opportunity to use applications and software as well as learn how to code and program electronic devices in this designated room. During schools hours it will be available to all teachers through arrangement via an appointment system as needed for individual class lesson plans. I will manage the maker space on a regular basis and will make sure students/teachers get an opportunity to utilise the maker space with appropriate equipment present as requested for the class room this permanent maker system is set up in.	
25/09/2017	Teach me the way iLearn - The iDea Lab	At Chatswood Hills State School we have planned to develop an iDea Lab which will be a STEM Lab with maker space. Our maker space will be a project based space that students can use to collaborate, create, communicate and think critically in - the 4Cs of our school's digital technologies and digital literacy programs. With the introduction of the Technologies Curriculum and HASS to our school in 2018 and a part time Digital Technologies Coach who champions project based learning, the Maker Space would be ideal for our goals. Our implementation plan includes using a maker space for Genius Hour, Kidrenpeneur Challenges, Code Clubs, robotics, design thinking and showcasing STEM projects to the community, managed by Year 6 Digital Leaders.	
26/09/2017	Fairbridge College - EV3 Minestorm Robotics Maker Space	Fairbridge College will provide a dedicated Maker Space within our existing STEM building. The area will be the permanent home of the EV3 Minestorm Robotics equipment and a dedicated place for students to apply their STEM knowledge and progress their skills in advancing technologies. STEM is a core part of Fairbridge College curriculum, with all students spending time in the STEM building each day. The EV3 Core set is ideal for 10 students (our class sizes) and will give the students an opportunity to use real-world robotic technology to complement existing curriculum.	
27/09/2017	St Pius X Windale Invention Room	The maker space at St Pius X will be an area where students can explore and create their own imaginative projects. Through experimentation and building prototypes, the students can engage in STEM activities of their own design. Teachers will develop this interest further through explicit STEM lessons, which will also utilise the maker space.	
27/09/2017	CFS Way Maker Place	Clyde Fenton School (CFS) has a large open plan library with adjoining usable space that can be utilised for a variety of uses. If successful with this grant the area will be adjusted to accommodate a Maker Space for use for classes (class time) and students (personal time - recess, lunch, clubs etc). Lockable and open mobile units will be utilised according to the needs / preferences of the teachers and students. Being able to expose the students to the technology and resources in the STEM area is a priority as they would not otherwise be able to access these types of technologies.	

27/09/2017	All Hands on Deck in the Maker Space	In 2017, a purpose-built open learning area opened in the Junior Learning Community at Hillcrest Christian College, complete with break-out rooms including a Maker Space facility. The Maker Space is designed to be a place for deconstruction, design and production. This grant will enable this space to be fitted out with furniture, tools and materials which will enable students to design, iterate, create and review, as a part of innovative Design Centred Learning (DCL) tasks that are a part of the skills-based curriculum being offered this year. So far students are using donated materials or tools on loan, and so it would be fantastic to have a supply that could be kept on hand for students to use indefinitely.	
28/09/2017	ICT Lab - Imagine, Create and Tinker Lab	This Makerspace will provide opportunities for students to gain experience with emerging and advancing technologies. It will be equipped with various tools, materials and technology based resources to encourage exploration, innovation and assist in the development of team building and problem solving skills. Primarily it will encourage learning through making and sharing, while supporting the implementation of Digital Technologies across the grades. Furthermore, it will support upper primary students as they transition to middle school in our local rural area that has recently received a substantial government grant to build a STEM learning centre. Students in this low socio-economic, rural area have had no access to such an establishment.	
29/09/2017	Lennox Head Public School's NXT Generation Makerspace	The NXT Generation Makerspace will compliment the existing dedicated technology room and be housed in this environment. The mobile space will be utilised for students to collaborate, build, design, explore and solve problem based activities using the latest technology available.	
29/09/2017	Churchlands SHS STEM Makerspace	The Churchlands SHS STEM Makerspace will be designed to fully complement the existing STEM programs and successful after school STEM Club. The Makerspace will comprise specialised furniture with additional tools and resources to stimulate creativity, based in a centrally located room where classes across the school can access the resources. Portable storage options combined with movable furniture will provide a flexible learning space where students can collaborate as they engage with new challenges.	
29/09/2017	Tuart Hill Primary School Maker Space Project	This project will establish the Tuart Hill Primary School Maker Space outdoor learning environment. Once operational it will enable teachers to improve student s access to a range of materials and hands on collaborative opportunities when implementing the Technologies curriculum. The THPS Maker Space will foster students critical thinking skills, problem solving skills, collaboration, motivating students to boost their self-confidence and resilience. This project will also allow the current STEM Specialists an area to enhance their lessons and provide ongoing professional development to the staff at Tuart Hill Primary school to help promote a STEM/ STEAM cross curricular approach to learning activities in all classrooms.	
29/09/2017	Deanmore Primary School: The Hull Creation Station - after Chuck Hull inventor of 3D Printing	The Hull aims to provide every student with the opportunity to explore the endless possibilities that the future of 3D printing holds. What can we 3D print? I think it s more of a case of what can t we 3D print! Recently we have had examples of sustainable housing, tools being printed and used in space, solar cells for buildings and human cells. We are on the edge of being able to use this technology to not only improve the lives of many but also give people the ability to work in dangerous, remote or isolated environments. If we are to open the minds of our students to the possibilities of 3D printing we need to provide them with opportunities to explore and create, to use their minds to develop their own ideas and solutions.	
29/09/2017	John Willcock College Maker Space & Innovation Lab	The JWC Maker Space is an interdisciplinary space where students can access materials and equipment to work on personal and group projects. At JWC we believe students learn by doing, and we wish to encourage the enthusiasm and passion that drives our makers.	
29/09/2017	East Hamersley Maker Space Project	At East Hamersley Primary School we intend to create a portable maker space for use with the year 3-6 students. This maker space will be housed in the communal area where these year levels work.The Maker Space will be housed in a portable trolley which will allow it to be moved into different classrooms on a timetabled basis, used in the communal area and accessible for 'STEM Club' times. The trolley design will allow teachers to remove individual items if that is the focus of their lessons as well as easily rotating the contents. This will also allow students to practice the skill of identifying, locating and returning items for use and after use. This will also increase the students access to a variety of materials and experiences.	
29/09/2017	Lego - Tinkering Time at Ashburton Drive Primary School	As a primary school with 4 blocks of classrooms we require a transportable STEM maker space. All students from PP - Year 6 will have the opportunity to be involved in planning solutions, working collaboratively and building design solutions. The portable maker spaces will be equitably timetabled to ensure all grade levels have the opportunity to contribute to an investigation of components and materials required to construct whilst caring for the environment and participating in technical discussions. The maker spaces will be focused on hands on activities with a significant amount of time blocked to each group to allow for maximum participation, creativity and collaboration.	
29/09/2017	Glendale Primary School: Creating Solutions in STEM based classrooms	Students will be encouraged to use their knowledge of the STEM subjects to solve real world problems. With a focus on the Early Childhood area of the school, the student's 'real world issues' are problems that affect them such as playgrounds and the school environment. The maker space will allow the students to have a hands on approach to solve the real world problems presented to them. The STEM approach will be embedded in the classroom practice and will connect with the WA curriculum across all learning areas. A Maker Space will encourage STEM thinking through collaborative projects, effective communication, flexible thinking create a space with the relevant resources to support 'create solutions' to engage students in learning	

29/09/2017	Bright Sparks - Pomona State School Makerspace	Pomona State School would like to create a Makerspace that will encourage our students to embrace the maker philosophy and extend their systems, computational and design thinking. We are aiming to create a Makerspace that stimulates students creativity, but also introduces teachers to a range of activities that are suitable for the classroom. With this in mind, we plan to operate a weekly portable Master Makerspace ir our Resource Centre, but we envisage that these resources could then be split into smaller Mini Makerspace Classroom Kits to support teachers as they implement the Digital Technologies Curriculum.	
29/09/2017	The Capel Primary School: i-Design Maker Space	The Capel i-Design Makerspace will be a collaborative work space inside the Capel Primary School library for making, learning, exploring and sharing that uses high tech to no tech tools. This space will be open for all students K-6 and also the local community after school and will have a variety of maker equipment including consumables, 3D printers, laser cutters, glue guns and even sewing machines. Also it will include cardboard, lego and art supplies. It s will have the maker mindset of creating something out of nothing and exploring your own interests which will be at the core of the Capel I-Design Makerspace.	
5/10/2017	Macksville High Makerspace	MHS Maker Space will be a production space where students have hands on access to 3D printers and a laser cutter as tools for production. The space will integrate traditional hand and machine tools to enable students to produce real products using the most appropriate technologies. Our Maker Space will be accessible to all students from Year 7-12 including Technology classes, elective Engineering and Software Design students, Robotics Coding club students and our Year 9 Integrated STEM class commencing in 2018.	
5/10/2017	Citipointe Christian College is sending ten students to Flight Camp in Florida 2018	Citipointe Christian College is sending ten students and two teachers to Flight Camp in Florida 2018. This event is an incredible opportunity for students to participate in hands on Flight Camp activities coordinated by the Florida Institute of Technology. They will also participate in an Astronaut Training Day and visit the Kennedy Space Centre where they can experience the International Space Station first hand. This event exposes the participants to all fields of STEM.	
6/10/2017	St Joseph's Maker Space: linking real world skills to real world learning	The aim of this project is to equip our students and teachers with the skills and understandings for the digital age. We are striving to inspire all students, boys and girls, in the areas of Science, Technology, Engineering and Mathematics. By encouraging our students to be creative and innovative through communicating and collaborating, we are enabling them to be problem solvers and logical thinkers. We embrace flexible and adaptive learning environments at our school and creating a permanent Maker Space in the Library would cater for the various ways our students learn. Students will be given an opportunity to think in depth about the world around them and develop their creative intelligence.	
9/10/2017	Carmel School: New Innovation Lab Maker Space for 3D Printers and Learning Program	As part of the new Design and Technologies curriculum to be implemented next year and the opening of the new Innovation Laboratory, the school will establish a complete 3D printer learning program. The teachers will be collaborating with expert educators in the field of the Makers Empire, to deliver high quality lessons and units to all students. Students will receive hands-on experience working with emerging and advancing technologies and be given opportunities to design solutions to real-world problems. An engaging problem-based inquiry learning approach will be implemented.	
9/10/2017	The St John s Maker Space will be established in a permanent location, in a room between two current classrooms	The St John s Maker Space will be developed to assist all students from Year 1 - 6 with their learning across all areas of STEM. The space will include a range of resources that encourages design thinking and problem solving. Teachers will be able to utilise the space for their STEM lessons, with flexible seating options and a range of technology our space will be designed to provide opportunities to develop creativity and innovation.	
9/10/2017	Maker Space i-Lab at Infant Jesus School Morley	The Australian Curriculum: Digital Technologies states that schools should provide students with authentic learning challenges that foster curiosity, confidence, persistence, innovation and creativity. This year at Infant Jesus School an outdated computer room underwent a makeover and named the i-Lab as a way to meet the demands of the new Technologies Curriculum. The i-Lab is a whole school, cross-curricular makerspace where educators and students can tinker, play and create and in effect, realise their innovation quotient. Our staff believe we are doing students a disservice if we teach today the same way as we taught yesterday and it is our hope that through this grant we can purchase some robotics equipment to be used in the i-Lab.	
9/10/2017	St Peters Maker Space	A maker space that can be used by all faculties in the school across all entire curriculum. A dedicated area for a 3D printer, computer and green screen with the appropriate software to allow students to be creative in both the technological and physical worlds. As well as the tecnological components, there will be materials available to students to create 'Rube Goldberg' machines. The project will culminate in a competition for the best designed machine.	
10/10/2017	Winmalee High MakerSpace	The addition of the MakerSpace to the school library will enable interested students to develop teamwork and organisational skills as they attempt to solve practical and real-world challenges using technical, design and ICT skills. The space will initially be used as a lunchtime activity area with a focus on Stage 4 students. Input from students will help us to develop project kits suitable for use by teachers across a range of KLAs, encouraging the inclusion of problem-based learning and STEM in student learning experiences.	
10/10/2017	Santa Clara School Maker Space Hub	Our Maker Space will be a contemporary learning space, one that the children will feel inspired when they walk though the doors. The space will be used during classroom time, in which the teachers will teach their students the skills to become the next generation of problem solvers and critical and creative thinkers through computational thinking skills and focus on the real world applications of problem solving. The students will have the opportunities to tinker, explore, use, and create with the latest in technology.	

10/10/2017	Maker Space, Repurpose underutilised area to engage, explore & design.	Tuntable Falls Community school is a beautiful little family and community run school in regional NSW. There is an underutilised area that we would like to repurpose into a Maker Space, this space would be used by the students to engage in STEM subjects and inspire them to have a understanding of, and fascination with science, innovation and design technologies, we would install a 3D printer as well as have a space for students to create new from old through recycling, giving them hands-on experience, practical skills and develop entrepreneurial thinking. The space would be used to hold structured lessons however it would also be open for students to access in other times, this would allow for creativity and confidence in discussions.	
10/10/2017	Maker Truck - STEAMing ahead	'Maker Truck -STEAMing ahead' is a portable maker space which can be used by the Primary and secondary teachers at Australian International Academy, Kellyville to deliver innovative and experiential STEAM projects linked to the curriculum. The maker truck is all you need to run curriculum related projects relating to Robotics, 3D printing, electronics, coding and hands on tinkering. It encourages students use the 'Design Thinking cycle' to explore the endless possibilities of imagination and creativity. The aim of the project is to prepare graduates who have the required 21st century skills to advance Australia by encouraging them to come out of their comfort zone and use tools and technology to build memorable maker experiences.	
11/10/2017	Bringing STEM Learning to Life	The portable makerspace will provide all mainstream students and all students in the multiple autism and emotional disturbance/ behavioural disorder classes the opportunity to engage in innovation and build 21st century learner capabilities. With a unique combination of WeDo 2.0, building bricks, classroom-friendly software, and engaging, inquiry-based prompts the makerspace will make science, technology, engineering, mathematics, and coding come to life. Students will create and share their scientific discoveries as they build and modify projects. Through collaboration, they will deeply engage with STEM and the Digital technology curriculum; sparking a passion for experimentation and investigation.	
11/10/2017	Hills Adventist College- Maker Space Clean Tech	Hills Adventist College aims to equip a maker space for clean technology to support the STEM program for middle school (year 5-8) and expand access to the rest of the school K-12 to new technologies and problem based learning. It is part of developing resilience in our students and allowing them to learn through failure and develop a growth mindset to address growing anxiety in our community, whilst promoting and developing skills in the STEM area.	
11/10/2017	St Columbkille's Maker Space	The maker space will be to support STEM based learning in our school. There will be two spaces, one in the Library, and one in an outdoor covered learning space. There will be a range of learning experiences based on STEM research, both in support of classroom lessons as well as standalone activities. There will be two teachers who oversee the planning and implementation of learning experiences. They will encompass K-6 students, providing opportunities for all students in the school to experience STEM based problem solving learning experiences.	
11/10/2017	Riverbank Public School students will attend Space Camp USA in Huntsville AL, USA	Riverbank Public School students will attend Space Camp USA in Huntsville AL, USA where they will complete an immersive educational program which includes activities such as participating in mission simulations, rocket construction, space history lessons, science experiments, multi access trainer activities and flight simulations. Also included on this excursion are visits to the Northrup Grumman facility in Los Angeles where the students learn about rocket construction and space exploration. We also visit the California Science Centre where students explore a range of 'hands on' science activities and participate in classroom lessons where the design and build items such as a rollercoaster in order to conduct science tests and experiments.	
12/10/2017	Richmond North Maker Space	Richmond North PS will be establishing a workshop style Maker Space which will include a range of design tools and materials as well as 3D printers and design software. We are seeking funding in order to purchase 2 x 3D printers (Up Box and Up Box mini) as well as PLA filament and Makers Empire 3D design software including teacher training. The Maker space we are establishing will be located in a large empty office/storage space in the school. It will be a permanent space.	
12/10/2017	Kanwal Public School Maker Space and STEM Laboratory	Kanwal Public School promotes creative thinking, experimentation and collaboration. Students are encouraged to use a STEM design process to identify and solve problems that are relevant and meaningful to them. Our maker space will be used in dedicated STEM lessons for all classes K-6, and also at lunchtimes as a space where students can come to work on special interest STEM projects, coding, designing and building.	
16/10/2017	St Francis of Assisi Warrawong - Let's Make it Great in Maker Space	Our plan is to create a space that gives students the opportunity to participate, explore and experience STEM to support their learning. Some examples include the use of coding on devices (Mac and iPad) as well as LEGO Mindstorm/Robotics that would support the Science and Technology syllabus; the creation of bridges/catapults/other devices that link Engineering with themes covered in English; coding with games and activities connected to the Maths syllabus.	
16/10/2017	Insect Hotels - Entomology for the Early Years	The Early Start Discovery Space at the University of Wollongong will deliver an entomology program for 3-5 year-olds. Children will learn about insects as they design and build their own insect hotels. The program will be delivered on-site at the Early Start Discovery Space, and piloted in up to 8 local childcare centres before being replicated in a minimum of 10 early childcare centres in regional and remote NSW focussing on regions of identified disadvantage. Developed by Early Start early childhood educators and academics in conjunction with Big Fat Smile experts, the program will also provide professional development to early childhood educators to ensure high quality delivery of the program.	

18/10/2017	St Nicholas of Myra students will attend Space Camp USA in Huntsville AL, USA	St Nicholas of Myra students would like to attend Space Camp USA in Huntsville AL, USA where they will complete an immersive educational program which includes activities such as participating in mission simulations, rocket construction, space history lessons, science experiments, multi access trainer activities flight simulations. Also included on this excursion are visits to the Northrup Grumman facility in Los Angeles where the students learn about rocket construction ann space exploration. We will also visit the California Science Centre where students explore a range of "hands on" science activities and particapte in class lessons where the design and build tomes such as a rollercoaster in order to conduct science tests and experiments	
30/10/2017	Students from Bede Polding will attend the 2018 Space Camp USA	Students from Bede Polding will attend Space Camp USA in Huntsville AL, USA where they will complete an immersive educational program which includes activities such as participating in mission simulations, rocket construction, space history lessons, science experiments, multi access trainer activities and flight simulations. Also included on this excursion are visits to the Northrup Grumman facility in Los Angeles where the students learn about rocket construction and space exploration. We also visit the California Science Centre where students explore a range of 'hands on' science activities and participate in classroom lessons where the design and build items such as a rollercoaster in order to conduct science tests and experiments.	
1/11/2017	Marist College North Shore os sending 36 boys to NASA Space Camp in Orlando Florida	Marist College North Shore os sending 36 boys to NASA Space Camp in Orlando Florida. The boys have a genuine interest in Mathematics and Science and the connection between the two.This experience will give the boys first hand insight into how the applications of STEM work in the the real world.	
1/11/2017	Loreto Ballarat Limited is taking 20 students to NASA space camp in Huntsville Alabama	We are taking 20 students to NASA space camp in Huntsville Alabama then to Washington DC followed by Orlando Florida. It an immersive STEM camp followed by other STEM events. There is a strong focus on physics, engineering and maths through out the trip as well as a focus on collaborative learning and creative thinking to solve real world problems.	
6/11/2017	Cerdon College is sending one student to Space Camp USA 2018	Cerdon College is proposing to send at least one student to Space Camp USA 2018. Space Camp USA visits a number of STEM related organisations including the California Science Centre and the US Space and Rocket Centre. This event allows the student to visit significant STEM installations.	
20/11/2017	Seven students from St Aidan's Anglican Girls School pitch their designs at the Conrad Innovation Summit at NASA in Florida, USA.	The Conrad Spirit of Innovation Challenge is an international competition where teams of students design and develop innovative solutions to problems identified in one of the following categories: Aerospace & Aviation, Cyber-Technology & Security, Energy & Environment, Health & Nutrition. This funding will support several teams of Australian high school girls to attend the Conrad Innovation Summit at NASA in Florida, USA. The teams will mix with students from around the world and present their designs at an innovation fair. The six top teams will have the opportunity to pitch their designs to a panel of industry experts. One winning team will be named in each of the five competition categories and recognized as "Pete Conrad Scholars."	
21/11/2017	Students from The Riverina Anglican college to attend Space camp USA in Huntsville AL	Students from The Riverina Anglican college to attend Space camp USA in Huntsville AL, USA where they will complete an immersive educational program which includes activities such as participating in mission simulations, rocket construction, space history lessons, science experiments, multi access trainer activities and flight simulations. Also included on this excursion are visits to the Northrup Grumman facility in Los Angeles where the students learn about rocket construction and space exploration. We also visit the California Science Center where student explore a range of 'hands on' activities and participate in classroom lessons where they design and build items such as a rollercoaster in order to conduct science tests and experiments	
24/11/2017	Urangan SHS is sending 50 students to Canberra to engage in STEM related activities by visiting Questacon, Deep Space Communication Complex, AIS and National Zoo	Urangan SHS is sending 50 students to Canberra to engage in STEM related activities by visiting Questacon, Deep Space Communication Complex, AIS and National Zoo. There are many varied and innovative STEM activities across a range of fields in one place and this excursion will allow students to have hands on experiences not available in their regional area. A lot of our students do not have many opportunities for such a trip due to distance and financial barriers and the inspiration provided by enjoying such an excursion would be immense	
27/11/2017	MLC students attend HASSE Space School in the USA	MLC is sending 25 students to the 2017 Houston Association for Space and Science Education (HASSE) Space Camp in Huntsville, Alabama and Houston, Texas. Over 12 days in the USA students will take part in enriched Space Science and Earth Science activities, including mission planning and simulations, robotics and habitat design. The camp encourages leadership development, and personal development, as well as inspiring students with the options that education and employment in a scientific field provides. On their return the students will share their Space Camp information with other students and use their experiences a a basis for further studies in science.	
30/11/2017	Santa Sophia - 10 students will attend the 2018 Space Academy USA	Santa Sophia is a new STEM school with students 12-13 years old. 10 keen students will be selected to attend 2018 Space Camp in September. The event provides hand-on activities in astronaut training, rocket engineering, space history, collaboration and project management skills. To provide this opportunity to students in their first year at a new STEM high school is a once-in a-life-time opportunity.	
1/12/2017	Four St Stephen's School Students will attend Space Camp USA in Huntsville AL, USA	St Stephen's School Students will attend Space Camp USA in Huntsville AL, USA where they will complete an immersive educational program which includes activities such as participating in mission simulations, rocket construction, space history lessons, science experiments, multi access trainer activities and flight simulations. Also included on this excursion are visits to the Northrup Grumman facility in Los Angeles where the students learn about rocket construction and space exploration. We also visit the California Science Centre where students explore a range of 'hands on' science activities and participate in classroom lessons where the design and build items such as a rollercoaster in order to conduct science tests and experiments	

1/12/2017	Corinda State High School is sending 12 (twelve) students and 2 (two) accompanying teachers to the finals for the Australia Space Design Competition to be held at University of Queensland	Corinda State High School is sending 12 (twelve) students and 2 (two) accompanying teachers to the finals for the Australia Space Design Competition to be held at University of Queensland. The event is a competition where students respond to an engineering Request For Tender (RFT) and design a futuristic space settlement, planning structural engineering, operations and infrastructure, personnel factors, automation, and business development. The event is a competition where students meet and work with like minded students from other schools and be mentored by experts in this field during the competition. This event covers all fields of STEM.	
5/12/2017	Corporate Accelerators powered by Collective Campus	Collective Campus will use grant funds to expand the scope and size of our upcoming Corporate Accelerator programs. Our programs combine the domain expertise, networks and resources of large organisations with the agility of startups, increasing the likelihood of success. Our accelerators condense 2 years of effort into a structured 13 week program and provides startups with guidance, mentorship, education, corporate support, coworking space access, networks and funding to underpin growth. Our methodology is industry agnostic and we can work across industries and verticals such as Mixed Reality, Education, Health, Cyber Security, Legal Services and Tourism to name a few.	
7/12/2017	Startupbootcamp Energy Australia Program	Startupbootcamp Energy Australia is a globally renowned mentor-driven accelerator program that seeks to provide support for startups from across the globe working the smart energy field. This support is given not only through seed funding, but through office space, access to technology, guidance on pitching and most importantly access to over 100 industry-expert mentors who will provide unique advice and help to the start-ups and their concepts. This program not only helps shape the smart energy field of the future but adds to the growing ecosystem of startups in Melbourne. The Growth-hacking & Experimental Design expert will provide global best practice, workshops, mentoring and support on the 3 month program & local startup community	
8/12/2017	Design Thinking & Scale expert for SBC Energy Australia program	Startupbootcamp Energy Australia is a globally renowned mentor-driven accelerator program that seeks to provide support for startups from across the globe working the smart energy field. This support is given not only through seed funding, but through office space, access to technology, guidance on pitching and most importantly access to over 100 industry-expert mentors who will provide unique advice and help to the start-ups and their concepts. This program not only helps shape the smart energy field of the future but adds to the growing ecosystem of startups in Melbourne. The Design Thinking & Scale expert will provide global best practice, workshops, mentoring and support to the startups on the 3 month program & local startup community	
9/01/2018	FLEDGE Innovation Labs - Commercialising MedTech.	FLEDGE has been established to support the design, develeopment and commercialisation of medical devices by Australian start-ups. Co-located with CSIRO and the National Measurement Institute, FLEDGE provides collaborative working space for 40 users, access to labs, cleanrooms, 3D metal printing, microscopy, metrology, and a Maker- Spaces equipped with state-of-the-art technologies such as 3D printers, laser cutters, prototyping and testing facilities. FLEDGE provides access to an extensive network of experienced founders, executives and mentors, as well as experts and industry leaders in MedTech and Venture Capital. FLEDGE also supports professional development oppportunities for interns, through experiential learning on real-world projects	
16/01/2018	Embedding innovation in Eighteen04's CleanTech and SmartCity Scale-ups	Funding will be used to develop a structured program for CleanTech/SmartCity scale-ups to develop the skills they will need to scale their businesses from proof-of-concept to MVP to globally orientated companies with sustainable revenue models. CleanTech / SmartCity scale-ups are unique as they are usually founded by researchers or technical engineers who may not have the skills to take their start-ups to high growth SME's. Also, the runway time required to develop a sustainable business in the CleanTech / SmartCity tech space is much longer than a generic software based business due to the requirement to develop hardware using a engineering design process. The chosen expert has proven experience in working with start-ups to scale.	
30/01/2018	8 Students from Hawkesbury High School attend Space Camp USA in Huntsville AL, USA	8 Students from Hawkesbury High School attend Space Camp USA in Huntsville AL, USA where they will complete an immersive educational program which includes activities such as participating in mission simulations, rocket construction, space history lessons, science experiments, multi access trainer activities and flight simulations. Also included on this excursion are visits to the Northrup Grumman facility in Los Angeles where the students learn about rocket construction and space exploration. We also visit the California Science Centre where students explore a range of 'hands on' science activities and participate in classroom lessons where the design and build items such as a rollercoaster in order to conduct science tests and experiments.	
1/02/2018	Kooringal High School will be sending four year 10 students to attend the 2018 iSTEM Space Academy Program USA	Kooringal High School will be applying on behalf of four year 10 students to attend the 2018 Space Camp. The Space Camp is part of the Metropolitan South West Science Teachers Association) and iSTEM. It is an enrichment program for teachers and students to participate in the Space Academy Program at the US Space and Rocket Centre in Huntsville, Alabama. Participants will be provided with opportunities for science enrichment and leadership development which will be supported with visits to science centres, schools and universitie. Students will also visit various industry related organisations such as Northrup Grumman facility in Los Angeles where the students learn about rocket construction and space exploration.	
8/02/2018	Windsor High School students attend Space Camp USA	Windsor High School students to attend SPACE CAMP, Huntsville AL, USA for an intensive and immersive STEM experience including participation in activities such as mission simulations, space history lessons, flight simulations, multi access trainer activities, rocket construction and scientific experiments. The trip also includes visits to the Northrup Grumman Facility in Los Angeles to investigate space exploration and rocket construction and California Science Centre to participate in design and build stem lesson, scientific testing and experiments.	

28/02/2018	Immersive Science II: Revealing the Invisible Universe	Two of Australia s most experienced science communicators, A/Prof Alan Duffy and Dr Rebecca Allen, will guide local and remote audiences through the incredible science beyond what our eyes can perceive. Audiences will learn how Australian scientists are leading the world in probing the Universe through ripples in the fabric of spacetime, unique views of the microscopic world, and exploring nanostructure realms. Through the use of groundbreaking Virtual Reality technology and social media Q&A, Alan and Rebecca will excite, educate and inspire three very different audiences; families in a day talk; young professionals at an inner-city brewery; and remote groups through online video streaming and organised regional viewing parties.	
1/03/2018	A New View of Life - Celebrating the end of the Kepler and Cassini	In September, NASA's Cassini, which has been in orbit around Saturn, met its fateful end while the Kepler Space Telescope, which has been discovering planets around other stars, will run out of fuel around April 2018. Therefore, it is timely to celebrate these two big missions as they have completely changed our view of our life. We know now planets around other stars, even habitable ones, are common and some of the moons of Saturn may host life. For National Science Week, we will celebrate these two big missions with NASA speakers from the teams and look towards the future with a national talk tour and school visits in each city/state. With the announcement of Australia's very own space agency, it couldn't be timelier.	
2/03/2018	Innovation-driven export growth - South-east NSW	Facilitate innovation-driven export growth: o Visits to SE NSW regional centres. o Work with Dept Industry; LGAs & business to map commercial potential & innovation status in region. o Select businesses; help them create (new/enhanced product) incubator (CBRIN) dealflow in region by: - mentoring - developing local models to optimise success; e.g. 'connect' events; co-working space; local mentors; entrepreneur id' & support; etc - identifying & supporting local champions - appropriate training - access to experts, particularly around lean startup; business development; export optimisation. - Build & support momentum with the objective of establishing new Incubator(s) either individually or jointly with another SE NSW centre.	
2/03/2018	Wandjina - Sounds of the Universe past and future	In National Science Week 2018, GDC and Observatory will deliver an innovative live music/film show exploring the science of gravity and cosmology. The science will be brought to life through an engaging story delivered through film, live music, and science fiction soundscapes. The film genre of science fiction will be used to explore and communicate the frontiers of science and technology, providing entertainment, information and raising questions - encouraging thinking about space sciences, including a focus on Aboriginal Astronomy.. Participants will be transported into a space or sci-fi scene or bush/dreamtime scenes for an immersive science experience	
24/03/2018	Reynella East College is sending two students to the 2018 International NASA Space Camp in Alabama	Reynella East College is sending two students to the 2018 International NASA Space Camp in Alabama. The space camp allows students to collaborate with other space enthusists, expand on their knowledge of space, science and STEM and inspire them as students of the Mars generation to pursue space related careers.	
29/03/2018	Plus Eight Accelerator - Entrepreneur in Residence	Tim Brewer, a serial technology entrepreneur and Silicon Valley advisor, will provide mentoring, workshop and advise to a cohort of up to 10 Perth based technology startups as part of the technology accelerator Spacecubed runs in partnership with a leading accelerator, muru-D, called Plus Eight. Plus Eight aims to support technology startups that look to leverage global markets. Over sixty percent of the world s population lives within two hours of Perth s GMT Plus Eight-time zone. This coupled with technology gives young WA startups previously unparalleled access to fast-growing global markets. We believe Tim Brewer is the perfect candidate to mentor and advise these companies and achieve success in the international market.	
5/04/2018	PROJECT ACE - AEROSPACE CAPABILITY EXPANSION	Levett Engineering Pty Ltd is a world leading precision engineering & component manufacturer & provider of CNC machining & value-added specialist services including vacuum brazing, surface treatment & non-destructive testing with an international client base that includes the defence, aerospace, medical, electronics and commercial engineering sectors with premises adjacent to the Elizabeth GMH plant. Project ACE (Aerospace Capability Expansion) will involve a $3.8 million investment in new advanced manufacturing equipment that will cement Levetts position in the contracted supply of high value components for the F-35 Joint Strike Fighter program in line with the production schedules while positioning the company to exploit opportunities & contracts in the global commercial aerospace sector. The investment will lead to the creation of 22 new FTEs at Levett, $32m in new export earnings to 2020 & bring sustainability & opportunity to the local advanced manufacturing supply chain.	
10/05/2018	The DumbleDoor - an exciting innovation for infant playtime and development	Active Baby has invented The DumbleDoor; a simple, safe and developmentally appropriate new recreational product for infants. The DumbleDoor creates an exciting environment for the infant, enabling independent full body inertia and providing entertainment & activity promotion. With already positive preliminary R&D results, AC support is now required to engage experts for fabrication of a commercial grade prototype, advanced market reseach, developing business plan, implementing IP strategy - and achieve first sales.associations between the movement of their legs and corresponding movement of their whole body in space. It is anticipated this product will be one of several featured in PhysioPlay.	
5/06/2018	Let's Play! Pop-Up STEM Playgrounds for Australian Communities	Playable Spaces will design and implement 12 Pop-Up STEM Playground multi-day events in communities around Australia. These inclusive, play-based mobile learning installations re-imagine public spaces as vibrant, engaging, family-focused STEM activity hubs. The Playgrounds feature a variety of innovative, hands-on STEM resources, encouraging girls, and their families, to grow in awareness of STEM concepts, and cultivate higher order thinking through playful exploration. Parents actively participate with their children to investigate, theorise, collaborate, problem solve, prototype, and create. Included are exclusive 'Girls First!' play sessions, empowering girls, alongside trained female 'STEM Champions', to discover STEM concepts as accessible, meaningful, and viable options for further study. Let's Play! STEM Playbooks, with examples from the Playgrounds, will be created and digitally distributed to thousands of families wishing to easily implement play-based STEM learning at home.	

6/06/2018	Driving social change: Women, Entrepreneurship, IoT	Monash University will partner with Monash Tech School, Victorian Space and Science Education Centre, Micro:Bit, Tech Girls Movement, Hacker Exchange and Monash Generator to tailor a program to develop an entrepreneurial mindset in the next generation. 500 secondary school girls and 25 female IT students as mentors will work in teams on ideas based on the Internet of Things (the network of physical devices embedded with electronics which enables these objects to connect and exchange data). Girls will develop a project idea, prototype it, and build a viable business concept around it. The teams will receive entrepreneurship training to help further develop their ideas and the two best ideas teams will go forward to the Silicon valley-based Hacker Exchange for intensive training.	
21/06/2018	Hardware Innovation for Global Startups	Introducing Brisbane s first large scale commercial makerspace: The Advance Innovation Hub. The Hub provides resources and technical knowledge to hardware-based startups. Our resources include; advanced prototyping and manufacturing equipment, curated programs, hands-on training and industry mentorship. We provide access to innovative equipment and industry specialists to maximise the benefits to hardware Startups seeking global expansion. Moving into the Fortitude Valley Startup Precinct, the Advance Innovation Hub is connecting industry with hardware startups to facilitate the development of groundbreaking innovations and building rapidly scalable businesses from the ground up.	
17/07/2018	Responsive Access to Space	Australia currently has no sovereign launch capability putting the nation at a strategic, economic and social disadvantage. This project aims to overcome this problem by developing leading edge, low cost, high availability rocket propulsion technology through development of a Rotating Detonation Engine (RDE) design to integrate into a space launch system. This will enable Australia to have a sovereign Low Earth Orbit Launch Capability so Australia can launch satellites and other space assets.	
26/09/2018	HASSE Senior Space School, Houston USA	The Rotary Club of Nundah is sending 1 student to the Houston Association of Space and Science Education (HASSE) to learn and apply critical skills in highly immersive and inspiring STEM activities at NASA. HASSE Space School empowers the student for changing times, broadens the mind, cultivates drive and instils curiosity within the spirit of exploration.	
11/10/2018	FIRST Lego League Regional Tournament	Cecil Andrews College has 2 teams of 10 FIRST Lego League students who will be attending a WA Regional event in Perth to compete against 35 other schools on Nov 4th 2018. The Tournament requires students to build and code a Lego Robot to compete in matches for points and presentations of STEM research into Space and Robot Design for judging. If successful they will progress to State Tournaments, Nationals in Syadney and World Champs in Houston Texas. Students are in years 7 and 8 and attend Robotics Club Weekly in terms 2,3 and 4 to learn the skills they need to compete.	
11/10/2018	Students enter the FIRST Lego League (FLL) regional competition.	Clifton Hills Primary School is entering 20 students (2 teams) into the FIRST Lego League (FLL) tournament. Students are in Year 5 & 6 and are entering the Seville Grove Regional competition at Cecil Andrews College. The event gives students the opportunity to solve real life problems about space exploration as well as design a Lego robot and write code for it to complete missions. The event covers all of the fields of STEM.	
11/10/2018	First Lego League Challenge & STEM camp	Students compete in the space themed first lego league challenge and visit space and robotics related venues such as the Perth Observatory and Curtin University.	
11/10/2018	Students explore Space Science & Maths at the Gravity Discovery Centre	We hope to take 57 students to the Gravity Discovery Centre in Gingin, WA. At the GDC, we will explore aspects of physical and earth and space science, as well as the Maths Alive exhibit, which is currently featuring at the centre. The GDC offers science exhibits, a scaled solar system walk, a leaning tower from which students can explore physics concepts, a biodiversity gallery and an observatory. Having taken a class to the GDC before, I know first-hand what a fantastic excursion this is for young students, in opening their minds and imaginations to the STEM subjects. The full-day excursion provides students with a diverse STEM immersion program, which will be supported by in-class Earth & Space Science learning and STEM projects.	
11/10/2018	John Tonkin Students visit to Space Camp USA for STEM Education	Four students from John Tonkin College will attend Space Camp USA in Huntsville Alabama, USA where they will complete an experiential educational STEM program which includes participating in mission simulations, rocket construction, space history lessons, science experiments, multi access trainer activities and flight simulations. The itinerary includes visits to the Northrup Grumman facility in Los Angeles where the students learn about rocket construction and space exploration; the California Science Centre where students will design and build rollercoasters to conduct science tests and experiments. John Tonkin is a Low Socioeconomic school located in Mandurah, south of Perth. All aspects of STEM are incorporated.	
11/10/2018	Students participate in STEM activities in Florida, including at NASA	Hampton Senior High School is sending 19 students to Florida, USA in April 2019. During the tour they will take part in various STEM programs and activities, the highlight of which is a 3-day hands-on Mars Rover Robotics program at NASA's Kennedy Space Centre. This program will have students pitching ideas to professionals in the space and engineering industries for feedback before they build their prototype Rover to remotely operate on NASA's mock-Martian surface. Other tour activities include indoor skydiving physics workshop, a biology tour of the Florida Everglades by airboat and a STEM/Engineering workshop at Universal Studios entitled 'Your Classroom In Motion' that sees them investigate various STEM concepts around the theme park.	
11/10/2018	Gwynne Park Gadget Gurus compete in FIRST Robotics Lego League	Gwynne Park Primary School are taking approximately 10 students to complete at the FIRST Robotics Lego League. The Regional Competition will be held in Seville Grove, with State Competition held at Curtin University. The event is an international competition that requires students to code an EV3 robot to complete missions, present a project on an issue faced by people travelling to space with a proposed solution and demonstrate the Core Values as outlined by FIRST. This event is an extension activity for our students in a low socio-economic area and covers all fields of STEM.	

11/10/2018	NASA Space Tour	I am applying for 20 girls from Iona to attend NASA Space School in Alabama. Here the students will live for a week as astronauts in training. After graduation, the students will spend time in Florida seeing the Kennedy Space centre and the rocket launch pads. Not only will the students have curiosity of the space industry (particularly important with the announcement of Australia's first space agency) but they will also be encouraged to use the engineering design process in many projects throughout the camp and encouraged to use good communication skills to present ideas. Other areas of science exposed to a range of jobs associated with space travel, such as medical science, biology in space and information technology.	
15/10/2018	BCR NASA Space Camp - STEM Educational Tour	Brigidine College is sending 11 students on a STEM Educational Tour to participate in the NASA Space Trek Mission focusing on Robotics in Orlando Florida. The purpose of the trip is to provide our students with extraordinary examples of the real world application of Science and Mathematics. It is expected the trip will inspire our students to choose senior subjects in higher level mathematics and science and take up a career in these fields. STUDENTS WILL: * Collaborate in teams to program a robot using NASA's electronics * Work to master particular programming concepts for their robots to complete challenges * Analyse data collected from real flight launches * Learn about the science behind rides at Islands of Adventure	
15/10/2018	Space Camp USA. Students travel to Huntsvile AL USA for a space camp.	St Stephen's school is sending 4 students to Space Camp, Huntsville, USA. The event allows students to spend 10 days at a camp specifically related to space exploration and science and to meet and work with like minded students. Also included in the excursion are visits to other facilities such as Northrup Grumman in LA where students learn about rocket construction and and further aspects of space exploration and astrophysics. This event does cover all aspects of STEM	
15/10/2018	Space Camp USA	Financial assistance will be for 9 students and one teacher to attend Space Camp USA in Huntsville AL, USA where they will complete an immersive educational program which includes activities such as participating in mission simulations, rocket construction, space history lessons, science experiments, multi access trainer activities and flight simulations. Also included on this excursion are visits to the Northrup Grumman, where the students learn about rocket construction and space exploration. They will also visit the California Science Centre where students explore a range of 'hands on' science activities and participate in classroom lessons.	
15/10/2018	Science Quest Canberra	As part of national Science week 2019 St Kevin's Junior School is sending 28 students to Canberra to visit to light the spark of STEM (in particular Science). The visit will include experiential learning activities, workshops and guided tours to places such as Canberra Deep Space Communication Complex, The Ian Potter Foundation Technology Learning Centre and the Geoscience Australia Resource Centre.	
16/10/2018	Students present at Science in ACTion Science Week Event in Canberra	We plan for 20 students plus 2 teaching staff to attend the Science in ACTion School Day (Science Fair) in Canberra with a view to presenting their Young Engineers construction projects and learn about ecosystems, technology, medicine, geology, archaeology, astronomy and sustainability from other stall holders. Whilst in Canberra students would also visit the Australian Institute of Sport, CSIRO Discovery Centre, Mount Stromlo Observatory, Canberra deep space Communication Complex, The Ian Potter Foundation Technology Learning Centre, Questacon's National Science and Technology Centre, Geoscience Australia Education and Resource Centre, Tsunami Warning Centre, the National Arboretum and The National Dinosaur Museum.	
19/10/2018	Space Camp USA 2019	Blakehurst High School students will attend Space Camp USA in Huntsville AL, USA where they will complete an immersive educational program which includes activities such as participating in mission simulations, rocket construction, space history lessons, science experiments, multi access trainer activities and flight simulations. They will also visit the Northrup Grumman facility in Los Angeles where students will learn about rocket construction and space exploration and the California Science Centre where students explore a range of 'hands on' science activities and participate in classroom lessons in which they design and build items, such as a rollercoaster, in order to conduct science tests and experiments.	
22/10/2018	Space Camp USA 2019	Students from Alstonville High School attend Space Camp USA in Huntsville Alabama, USA where they will complete an immersive educational program which includes activities such as participating in mission simulations, rocket construction, space history lessons, science experiments, multi access trainer activities and flight simulations. Also included on this excursion are visits to the Northrup Grumman facility in Los Angeles where the students learn about rocket construction and space exploration. They will also visit the Californian Science Centre where students will explore a range of 'hands on' science activities and participate in classroom lessons where they design and build items such as a rollercoaster.	
23/10/2018	Space Camp USA	Students from St Thomas More Primary School attend Space Camp USA in Huntsville AL, USA where they will complete an immersive educational program which includes activities such as participating in mission simulations, rocket construction, space history lessons, science experiments, multi trainer activities and flight simulations. Also includes on this excursion are visits to the Northrup Grumman Centre where students explore a range of 'hands on' science activities and participate in classroom lessons where they design and build items such as roller coaster in order to conduct science tests and experiments. This event covers all fields of STEM.	
24/10/2018	Mission Discovery	1 gifted year 8 student, to attend a 5 day space and stem program at the University of Melbourne where she will learn from a NASA astronaut, NASA leaders and expert scientists to launch ideas into space! In teams, take on the role of research scientists and design a space science experiment The overall winning team s experiment, as judged by the NASA panel, will be launched to the International Space Station and conducted by astronauts on board! This is a full immersion in Space and STEM with plenty of hands-on activities Develop leadership, teamwork and public speaking skills Hear a range of exciting Space and Science career paths	

31/10/2018	Space Camp USA	Our aim is to engender a contagious passion for STEM, a clear pathway to the future and an insight into possibilities! Moorefield Girls High School, with 81% of students from NESB, is a culturally cohesive community. We have a strong track record in participating in STEM competitions, are creative and innovative, with students taking risks in their learning and developing a growth mindset. At Space Camp USA in Huntsville AL, USA, students will complete an immersive program of mission simulations, resilience and leadership training and construction. At the California Science Centre they design and build mechanical structures. At Northrop Grumman, girls will experience STEM role models and will become advocates for young women in STEM.	
12/11/2018	Entrepreneur in Residence- Plus Eight muru-D Perth	The Expert in Residence, Derek Gerrard - an active tech investor, venture fund founder and manager and entrepreneur - will provide mentoring, workshops and advise to a cohort of up to 10 Perth based technology startups as part of the technology accelerator Spacecubed runs in partnership with leading technology accelerator, muru-D, called Plus Eight. Derek also manages BetterLabs, a venture fund developed by RAC WA and will help startups get better at being able to access angel and venture funding in WA and SE Asia. Plus Eight supports technology startups that look to leverage global markets. Over sixty percent of the world s population lives within two hours of Perth s GMT Plus Eight-time zone.	
13/11/2018	Plus Eight Academy: Pre-accelerator in Perth and regional WA	Spacecubed will use grant funds to expand its Plus Eight Accelerator Program to offer the Plus Eight Academy in Perth and regional Western Australia (incl. Geraldton, Bunbury and Port Hedland) to help startups participate in Australian innovation and develop skills to think globally. Plus Eight Academy is intended as a practical, fast-track education program targeted at early-stage Australians entrepreneurs designed specifically for the Western Australian ecosystem. It draws on real-world experience from mentors and contemporary models used by leading global startups to help the participants take an idea and turn it from concept to commercial reality. It features two programs targeted toward idea and early stage entrepreneurs.	
19/11/2018	Space Camp USA	Students from Griffith High School attend Space Camp USA in Huntsville AL, USA where they will complete an immersive educational program which includes activities such as participating in mission simulations, rocket construction, space history lessons, science experiments, multi access trainer activities and flight simulations. Also included on this excursion are visits to the Northrup Grumman facility in Los Angeles where the students learn about rocket construction and space exploration. We also visit the California Science Centre where students explore a range of 'hands on' science activities and participate in classroom lessons where the design and build items such as a rollercoaster in order to conduct science tests and experiments.	
4/12/2018	The Conrad Spirit of Innovation Challenge, World Finals, USA.	The Knox School is sending three students to the world finals of the Conrad Spirit of Innovation Challenge in April 2019. These three students won the Australian finals on October 31st in Brisbane, and will now represent Australia at Cape Canaveral (USA) at the Kennedy Space Centre for the world finals. Their innovation for this challenge is a modification to biometric security in EFTPOS machines. In the USA they will compete against students from around the world in an attempt to gain 'best innovation in 2019' at the Challenge, be offered patent advice and be mentored and judged by leading academics and STEM professionals throughout the four day challenge at NASA.	
17/12/2018	User experience of RM Workspace	Innovation Connections promotes collaboration between small and medium sized Australian businesses and the research sector to develop new ideas with commercial potential.	
23/01/2019	Kilvington Innovation Laboratory	As part of the Kilvington STEAM program, we are committed to ensuring all students take part in STEAM projects throughout their time at Kilvington. In 2019, we are offering two new electives a Year 9 STEAM elective and VCE Systems Engineering. These will complement the compulsory STEAM projects that take place for all students from Years 5-8, as well as co-curricular Junior School and Senior School STEAM clubs. If successful, the grant money will go towards setting up the Kilvington Innovation Laboratory, which will provide the space for these projects	
23/01/2019	Sandon Maker Space	The Sandon Maker Space will facilitate the integration of STEM throughout the curriculum at Sandon Public School, building creativity, collaboration and explorations skills while developing students capacities in engaging with digital technologies.	
23/01/2019	Makers Space	Students enrolled in Narromine schools predominantly have limited access to technology. The Narromine Christian School intends to build makers spaces with the following benefits: Students in Regional NSW understanding how to use differing modes of technology Students in Regional NSW creating using code, algorithms and computer based communication forms Students linking the above learnings to agricultural technology and building items using tech to improve farming productivity This Makers Grant will provide students with access to ways of technologically thinking they were not previously accessing. This will provide each student with a potential spark of makers creativity .	
23/01/2019	Techspert Academy	Our makerspace will be used in two ways. We are setting up a junior and senior makerspace as we have a split campus school. Students will be selected through an application process to take part in our Techspert Academy. These run each term. Students learn a new STEAM related skill and then go and teach their class about that school. This way we are creating experts in tech! This helps to support staff and students in their own STEAM development. As our makerspaces will be portable they can be taken into different classrooms for teachers to use as part of their in class curriculum program.	
24/01/2019	UQ Energy Testlab: Collaborative research, teaching & learning space for 21st century energy systems	The project will establish an Energy Industry 4.0 Testlab to serve as a point of engagement with SMEs and enable knowledge transfer to support uptake of Industry 4.0 approaches to energy management.	
24/01/2019	Bullyard Robotics and Digital Technologies HUB	The Maker Space at Bullyard state School will be integrated into the primary library facility, which is the main shared point in the school. It will comprise a mix of Robotics equipment and construction equipment with a science focus suited for students across the P-6 school that can be utilised in our multi-age classroom settings. We wish to use this Makerspace to allow our students to enter regional and state competitions in the emerging digital technologies curriculum.	

24/01/2019	Amaroo Inspire centre Makerspace	The Makerspace in the Inspire centre (Library) of Amaroo School will allow students P-10 opportunities to tinker, design, create and imagine using STEM skills. Having the Makerspace located in the library space creates a 21st century learning space for the whole school community.	
25/01/2019	Emmaus Makerspace	The Emmaus Makerspace will be a flexible learning environment aimed to engage students of different levels and interests. The target group of upper primary to senior school students will have the opportunity to work on a personal project or a larger, group project with successive improvements over the years and entry points suitable for any interested students. In doing so, we hope to develop a maker spirit which lives up to our motto inspiring hearts, inspiring minds . We aim to lead by example and show leadership to how to conduct makerspaces activities in any school contexts.	
25/01/2019	OURspace: A makerspace for engaging and inspiring disengaged youth	This project will extend the capability of an existing space attached to a 'traditional' manual arts learning area through the addition of a laser cutter to other existing clean technology to form a Makerspace where educationally and socio-emotionally disengaged secondary students can engage with and explore modern and emerging technologies. It is intended that students will use this Makerspace to seamlessly integrate traditional tools and techniques with emerging technologies to develop their STEM knowledge and skills through student inspired, teacher supported, inquiry based learning activities. Provision has also been made to make this area available on a weekly basis to local primary schools, to support and extend their STEM programs	
27/01/2019	Building a maker culture in the library: making our school as vibrant	Ben Venue primary school is the largest public school in our regional center. Our grant will allow the 575 students that attend our school access to the tools and technology that will support engaging learning experiences that develop entrepreneurialism, problem solving, critical thinking, communication, collaboration and ethical citizenship. The maker space will be a permanent area situated in our library and be available for student use for both free exploration and inquiry-based learning projects. Our teacher librarian will lead the development and implementation of the maker space, working with our school s technology team and executive to integrate the working technologically content area from the Science syllabus.	
27/01/2019	Everyone is a maker	We have repurposed a significant area of our school library to become our dedicated maker space area. We have self-funded a new position in our school for Mr Garreth Wigg to be the project lead/Maker Project Champion. Garreth has significant expertise in the fields of STEAM, Digitial Technologies, Project-Based Learning and is an advocate for student agency and the maker movement. He will be working closely with all teaching staff throughout the entire 2019 school year in a coaching and mentoring role to build staff capacity in new pedagogical approaches, with a specific focus on maker-driven learning.	
29/01/2019	School Makerspace	This grant will be used to establish a makerspace at Tullawong State High School. Our school is a leader in STEM, being recognised as a finalist in the Best STEM Program category of the Australian Educator Awards. The makerspace will be used to help engage our students in creative thinking, design and problem-solving.	
29/01/2019	St Paul s Maker Space	This space will be utilised by Prep-Year 6 students. We will re-develop a spare classroom into a dedicated Maker Space Area. This space will allow students to create, explore and discover through STEM related activities, tinkering and project investigations that will supplement classroom curriculum. This space will put students at the centre of their learning and foster growth in ingenuity, creativity, resilience and innovation. Interest in STEM has increased over the past few years at St Paul s through the introduction of whole school STEM challenges, and learning initiatives. Traditionally, these tasks have been off-site or out-sourced due to limitations in space and resources.	
29/01/2019	Milawa Primary School s Coder Space!- an inclusive learning space.	The Milawa Primary School Coder Space will create an inclusive space that will allow students the opportunity to learn building, coding, programing and problem solving skills through robotics. The Space will be part of the main school building and will be a dedicated space for STEM lessons. A place where teachers can take their classes and learn STEM. The room will house the Robots, iPads and consumables. It will also be a space to centralise current making resources in the school. It will also have storage space available for future purchases.	
29/01/2019	STEM the Imagination	The project aims at establishing a makerspace suitable for encouraging young minds to develop their critical and creative thinking through the use of digital and manual technologies to develop solutions to real world scenarios. The program is intended to provide Stage 3 students with an introduction into robotics, electronics and provide them with engineering skills whilst extending Stage 4 students to develop original solutions using a variety of skills including teamwork, digital technologies, rapid prototyping and project management.	
30/01/2019	SMC's Maker Movement	SMC s Maker Movement will establish a Maker Space which provides students the opportunity to tinker, create and experiment with maker materials and technologies. The project aims to light the spark of inspiration, cultivate a lifelong love of learning and develop STEM skills in students. The Maker Space will have a combination of high-tech and low-tech making materials and technologies, such as 3D doodling pens, an animation studio, wearable circuitry, badge making resources, and wooden construction materials. The Maker Space will be open to students Monday to Friday between 8am and 4pm, outside class-times. Students will have the freedom to choose which materials and equipment they d like to use, and when and how they d like to use them.	
30/01/2019	Establishment of a Science/Stem Makerspace classroom	In 2019, our school has employed a specialist science teacher to teach one lesson of science a week for all students from reception to Year 6. We have a dedicated classroom space that is required to fitted out with tools and equipment that will allow this teacher to provide a hands-on , inquiry based Science program designed to have students learning collaboratively, using higher order thinking skills as they make sense of scientific phenomena. This science learning will be supported by the units of work classroom teachers are already attempting as part of a STEM focus this space will allow a dedicated makerspace for all students to come together to create, invent, tinker, explore and discover using a variety of tools and materials.	

30/01/2019	Good Shepherd Maker Space	Good Shepherd s Maker Space will be a space to inspire and engage students in the critical and creative thinking. It will be in a designated fixed space in the library with moveable shelving/trolleys that can be used in other class spaces or outside. We will incorporate consumables, technology and electronics. The space will be used by different classes or groups to enhance the STEM aspects in their curriculum-based Units of Inquiry. Students will also have the option to explore and create interest-based projects during lunchtime clubs or iTime learning.	
30/01/2019	Lake Clarendon STEM Shed	The Lake Clarendon STEM Shed will be a space for the school s 150+ students to exercise their creativity through a variety of guided and self-directed STEM-related projects. Equipment and materials will be selected based on their alignment with design thinking processes including ideation, prototyping and testing. Students from Prep to Year Six will be encouraged to be involved in maker activities through weekly STEM Shed Project sessions, where they will be guided through a STEM project such as creating a castle, marble run or rocket. These projects will guide students through the design thinking process so they can apply these skills to their self-directed projects. Upper school students will be encouraged to work with younger students	
31/01/2019	Portable STEM Makerspace	Our Lady of the Southern Cross currently run STEM as both a specialist subject and within our school-based curriculum. We currently have very limited resources that have been gathered in an attempt to create a portable makerspace. We would like to add more scientific and technological tools to better the opportunities for our students. We aim to improve student skills and understanding of scientific concepts through play, design thinking, entrepreneurial thinking and exploration.	
31/01/2019	3D Printing Makerspace	Leeville Public School will establish a maker space with 3D Printers to maximise the potential of students to develop and apply STEM based skills. Students will engage in problem-based inquiry learning using 3D printers to participate in hands on learning experiences within a K-6 setting, with the aim to foster critical and creative thinking skills and expand opportunities for rural students. The space will be incorporated into lessons across grades and across learning areas to enhance student learning.	
31/01/2019	Homebush Public School's Makerspace, Innovation Station .	Through this initiative, the Homebush Public School Innovation Station will allow students of various ages and abilities significant opportunity to engage in purposeful, collaborative experiences using pioneering technology as a tool for innovation. This space will include equipment and materials (e.g. 3D Printer) to engage students when completing design challenges and empower their creative potential.	
31/01/2019	Making it Happen! Creating a Mobile Makerspace for Maximum Impact.	We are a small, low-socio economic, school in far NSW. We are recovering and rebuilding after the devastating flooding from Cyclone Debbie, which destroyed the buildings and contents of our library, office, staff room Assembly hall sports room playground and tech space. Bouncing back we are building bigger and better. We recognise the importance of students being allowed to design, create, tinker and express themselves freely, and want to develop a Makerspace that both compliments our new library and the classroom learning environment. In addition to traditional crafting equipment we especially want to develop an area with filming and Greenscreening capabilities. A space where Making and Invention is accessible to all of our students.	
31/01/2019	3D Printing & Learning @ BMPS	Bacchus Marsh Primary School will establish a Maker Space to develop critical and creative thinkers who can generate ideas and solve real-world problems. We will purchase three 3D printers and Makers Empire 3D software to target our students learning from Foundation to Grade 6 and beyond. This will provide a platform for students to investigate, evaluate, design and print 3D solutions to see their thinking come to life. This complements our existing plans to create and run a Maker Space within the school with other leading-edge technologies, which will be accessible to students, staff, parents and the wider community.	
31/01/2019	McAuley Makerspace	The McAuley makerspace will provide our students opportunities to develop critical thinking skills within both the context of the syllabus and in extra-curricular activities such as our Girls Who Code club and newly developed Robotics clubs. We aim to extend upon the enthusiasm of our students for STEM by providing meaningful experiences within the context of a STEM makerspace.	
31/01/2019	Solving real world problems using contemporary technologies.	Modbury High School will establish a maker space as part of the STEM Works government funding in conjunction with the establishment of a fabrication lab. As the STEM Works funding is primarily used to refurbish existing structures with in the school there is little funding remaining to purchase equipment and material, which will have the biggest impact on student learning and improvement. The money will be used to purchase a laser cutter and materials, which is the most flexible piece of equipment to turn student s imagination into reality. The school has done extensive research and feel this piece of equipment will provide the most reliable access to STEM design and manufacturing.	
1/02/2019	JS Discovery Room	The Maker-space grant will allow our school to purchase relevant equipment and materials to achieve our goals around the integration of STEM in our inquiry learning programs. The grant would be used to buy new technologies and materials to challenge students and provide opportunities for them to engage in learning experiences that are interactive and meaningful. Our Junior School Library and Innovation Centre is currently developing a Discovery Room maker-space for students to engage in these learning experiences, with space to tinker, build, code and create.The space would also be a place for students to create and explore during lunch and before school. The maker-space will also support our Library co-curricular offerings.	
1/02/2019	Creation Station	To meet the specific needs of our school, our maker space will be a portable 3D printing and robotics hub consisting of two lockable modules which can be transported to various Classrooms and utilised by different student groups. The first of the two modules will be the 3D printing station which will house the proposed 3D printers, their tools and resources. The second of the modules will be the home for the proposed robotics resources. The development of a makerspace will enhance the delivery of the new Technologies curricula and birth the establishment of a proposed coding/robotics club. Fundamentally, the makerspace will provide foundational resources which will assist in and preparing our students with the necessary skills and confidenc	
1/02/2019	Makers on the Move	A mobile maker space which can be accessed by all classes in the school to enable them to create rich tasks with their students.	

1/02/2019	Gilson Mernda Maker Space	Gilson Mernda Maker Space is to be used to encourage entrepreneurial skills in a well-resourced prototyping facility. The facility will provide a broad range of processes and equipment to enable students to build, evaluate and improve their designs with a focus on allowing innovation aligned with modern technologies and techniques, including microcontroller projects. Equipment will include; manual tools, power hand tools, a lathe, electronics prototyping equipment, 3D modelling, 3D printing, and 3D/2D milling. This will allow a variety of materials to be employed including metals, wood, plastics, and electronics. The space will be used for project-based learning, traditional classes, and for extra-curricular student projects.	
1/02/2019	Upper Coomera State College STEM Makerspace	The Upper Coomera State College STEM Makerspace will utilise STEM challenges as a way to develop students thinking skills while encouraging the ability to design and create solutions that are meaningful to them; where our makers use a mix of digital and artisan skills to make and share inventions in order to benefit themselves and our community. Our makerspace will ingrain the core values of recycling, reusing and sustainability; and student makers will be encouraged to reuse discarded products to build their projects. We also intend on opening up our Makerspace to the wider community, with an outreach program for local Primary Schools and hackathons between other schools.	
1/02/2019	Junior School Maker Space	The space will provide students from Kindergarten to Year 4 with a construction space centred around Lego building, put also providing basic robotics components, and additional materials to further develop creative ideas.	
1/02/2019	Integrating 3D Printing & Robotics Into the Curriculum	A purpose built STEM classroom has been approved to be constructed at our school in the next year. This building will include maker spaces that students and parents at our school will have some say in the design of and will be used by all students in K 6.	
1/02/2019	Preparing youth in science, agriculture and technology	Our maker space will be used in the curriculum and for extra curricula activities. It will be largely portable so can be accessed from all parts of the school. It will be used by Science, Agriculture and Archimedes (school signature STEM class) students to engage them in the engineering design process. It will be available outside of school hours as a place for students to tinker with technology as well as design and make new things. Students utilising this maker space will be encouraged to develop solutions for agriculture as well as follow their own interests.	
1/02/2019	WSDS Makers Space	The Warrnambool Special Developmental School Maker Space will be an incorporated throughout the school in many different ways. The Maker Space will be a portable system that students from Foundation to Year 12 to have access to within their classrooms. We endeavour to utilise the Maker Space to encourage and guide our students to be creative and curious. As a regional Special School in Victoria, our already disadvantaged students need access to a wide range of tools, materials, technologies and resources to provide engaging accessible experiences for all of our students.	
1/02/2019	MLC Junior School STEAM Lab	The MLC Junior School STEAM (Science, Technology, Engineering, Art and Maths) Lab project will design and create a purpose-built, dedicated STEAM Lab makerspace to be used during weekly STEAM Lab sessions for girls in PK-6. Students will use the space to design and create hands-on practical engineering projects, undertake scientific investigation and utilise technology including robotics systems via collaborative learning projects integrated into the curriculum. The sessions will be delivered by specialist STEAM integrators in conjunction with classroom teachers. The space will also be utilised by extra-curricular clubs including a code club, robotics club, engineering, and science clubs already established at the school.	
4/02/2019	Establishing a makerspace with 3D design and printing	Schools that include 3D technologies such as 3D design software and 3D printers when establishing a Makerspace are maximising the potential for students to develop and apply STEM based skills. Hands-on experience working with emerging and advancing technologies Authentic opportunities for students to design solutions to real-world problems and ideate their entrepreneurial and innovative ideas Fosters critical and creative thinking skills through design processes Provides a vehicle for engaging in problem-based inquiry learning Development of practical skills and safe practice with tools and equipment Allows for rapid prototyping, experimentation, iterative design and tinkering	
4/02/2019	Portable maker space for young designers	Aspendale Primary School will develop a portable maker space that can be used in any classroom across the school. We want to inspire our students to design solutions to real life problems using a Makers Empire subscription, used with a 3D printer, and MakeDo construction equipment. This will supplement our existing coding/robotics equipment. These tools can all scale from Foundation through to Year 6. Our school vision is Learning for Life this maker space will help us to equip students with transferable knowledge skills and understandings necessary to thrive in a rapidly changing and globally connected world.	
4/02/2019	A Future in The Making at MTP	A maker-space will aim to facilitate our students in becoming learners of tomorrow. We hope to instill in them the skills, attitudes and values that will make them active participants, not only in their learning, but as members of a 21st century society. We aim to use b-bots, spheros and coding applications such as scratch and swift playgrounds to bestow our students with creative thinking skills, problemsolving skills and collaboration across projects. This will also provide a safe working space for teachers and students to implement the new Science syllabus is a way that is real, rich and relevant. This space will cater for all of our students with varying needs and diverse backgrounds enabling and extending their learning possibilities.	
4/02/2019	Saint Pat s Maker Space: Everything you wanted to know about STEM but	From 2019, Science will be taken out of our classrooms and delivered in our Learning Hub by a dedicated group of teachers and teacher librarians. A Maker Space will be established to complement this move and become part of our Learning Hub in the same way as our library collection and our computer lab. The Maker Space will be set up to deliver a quality learning experience in the field of Science by delivering Science Curriculum Outcomes to students while at the same time seeking to arouse their curiosity and collective levels of consciousness to the world around them. By integrating other KLAs like Maths, Geography, Creative Arts, English and Technology, we envisage our Maker Space will provide a rich learning experience.	

4/02/2019	iEngage	Our dream is to set up innovative spaces around our Junior School campus for all students from Transition to Year 5. In our space the students will be free to create and design according to their passions and interests. We would like to provide for them materials to build, digitally design, print, invent, design, experiment, test and create.	
4/02/2019	Whalan PS Learning Hub	Our school s Learning Hub provides a space that empowers students to participate in design challenges, competitions and curriculum linked projects. The development of critical and creative thinking, collaboration and communication capabilities is strengthened as students engage in design thinking to solve school-based, community and real-world problems. Teachers use the space to embed leadership and innovative pedagogical practices including STEM.	
4/02/2019	Mullaley Makers	The Mullaley Makers space will provide students from a rural and drought affected school the opportunity to participate in STEAM and future focused learning opportunities. The maker space will provide students with the opportunity to develop skills that will open pathways beyond that of rural living and ensure that they are all able to engage successfully with an ever changing technology based future.	
4/02/2019	Maker Collaborative	Creation of a maker space located within the School's library to provide a creative and collaborative space for makers on the Hill Campus.	
4/02/2019	Creation Hub	Blayney Public Schools Innovation Station space will be a dedicated permanent space within the school which will be used to optimize and enrich the learning opportunities and experiences across the school both during and beyond this maker space project. The Creation Hub space will provide opportunities for all students to engage, explore and engineer through becoming creators, designers and innovators in the makerspace.	
4/02/2019	Discovery Centre Makerspace	The Discovery Centre Makerspace will be a flexible learning space providing access to a wide variety of technologies and tools that engage students in STEM related activities. Meaningful projects that align with curriculum programs, encouraging creativity, imagination and wonder in a guided inquiry environment are important in developing a maker skillset where students are not just consumers, but creative and productive. Students will be encouraged to develop a maker mindset where being open, inclusive, encouraging and generous allows them to become builders, creators, tinkerers, critical thinkers, problem solvers and collaborators.	
4/02/2019	AHS Library Makerspace	The AHS library makerspace will provide opportunities for students and teachers to tinker and create by providing access to a variety of physical and virtual tools in a permanent, central location. The makerspace will be used for lunch time creative technological activities and robotics programs facilitated by the Teacher Librarian and will also be accessible for the wider school community as a bookable resource (with or without TL assistance) to increase hands on learning and exploration of interests. The AHS Library makerspace will provide access to tools such as robotics, 3D printing, technical tools (non-industrial) and craft resources.Staff professional development in using the tools provided in the space will be accessible.	
4/02/2019	Shorncliffe SS Makerspace	The makerspace developed at Shorncliffe SS will be a place where students can investigate and explore STEM related concepts through the use of a range of emerging technologies. Students will use the resources made available in the makerspace to design, produce, and evaluate solutions in curriculum and extra curricular opportunities.	
5/02/2019	STEM@Canterbury in B18	The Maker space will be in the room B18 which will be the designated STEM Centre. The space will be overseen by a student team. It will be a creative and collaborative learning space where activities will be led by the 2019 STEM Captain and will focus on student initiated activities. There will be a special emphasis on robotics and digital technologies with students being able to develop creative responses to student identified problems. There is already a 3D printer in the space. Students will be able to use the space at recess and lunch and before and after school. It will also be used within the co-curricular STEM program that currently runs at Year 7.	
5/02/2019	Nhill College STEM Maker Space Project	A dedicated modernised room, which provides 20th century learning of STEM. The addition of this space at Nhill College will allow inquiry-based learning so students from Foundation right up to Year 12 can practice solving real world problems. There will be a particular strong focus on digital technologies to provide opportunities of developing understanding in advancing technologies, including coding. The inspiring discovery space will include equipment and tools to assist them with critical and creative thinking and the development of their solutions. All of these STEM skills are essential for preparing students for the world s future jobs.	
5/02/2019	Establishing a makerspace with 3D design and printing	Introduction of a Maker Space . To develop a project/inquiry based learning culture among the students and staff. To give students the knowledge and skills to use innovative technology and tools. Intended to develop students understanding of working scientifically/mathematically and the role design and technology plays in real world applications, in their lives now and for their future. To create community/school relationships through the promotion of STEM. To provide an opportunity for all students to succeed through innovative differentiated teaching and learning. Students will: develop skills in design thinking, applying the processes of Design and Production by planning and conducting a range of investigations and making activit	
5/02/2019	Meridian's Maker Space	A space for all to explore, share, collaborate and dream. A space where children can pursue self guided learning beyond the realms of the classroom. We at Meridian are creative and constructive thinkers, who need a space, physically and mentally, to allow us to design, engineer and build. Students will be encouraged to use the Meridian's Maker Space as an area outside of the classroom where they can develop a passion for STEM learning.	

5/02/2019	Inspiring STEM at Monash School!	At Monash School we intend to further develop our STEM space to ensure that all students (regardless of background, age or ability) gain hands-on experiences in design, technology, innovation and engineering. We aim to make the STEM space a flexible learning environment that will foster innovation and encourage students to design solutions to a range of problems. The space will include emerging technologies that can be used by students and teachers to integrate making into the curriculum. In 2019, Monash School has committed to a dedicated STEM specialist teacher who will champion the use of this space within the school and promote it to the wider community through a range of events including a STEM community night.	
5/02/2019	STEM Creations @ Essington	e-MakerSpace is to be a space in the Essington International School Darwin that encourages innovation, higher order thinking and opportunities for students to design solutions to real life problems using various forms of current technology. The project will provide technological tools such as computer-aided design work stations and 3D printers so that students will experience hands-on 21st century learning. The project will be overseen by a skilled teacher who will professionally develop staff so the e-Makerspace is integrated into each subject area through planned inter disciplinary units of work from Years 2-9. In support, the school will run STEM Week and regular Activities Weeks for Years 6-9, in which students will create, experiment,	
5/02/2019	How the STEM fields relate to robotics in everyday life.	The world needs students of today to become the scientists, engineers, innovators and problem-solving leaders of tomorrow. The emergence and merging of Makerspaces and STEM education presents us with new opportunities and challenges, creating new environments for problem-solving through technology. The innovation and ideation to solving problems could help change the world, and technology-based problem solvers will be the people to make it all possible. We envisage a makerspace with resources and materials for students to let their curiosity and imagination come to life. An informal, playful, atmosphere for learning to unfold, where getting it wrong is allowed. A space where trans-disciplinary learning and inquiry can flourish.	
5/02/2019	Our Lady of Mercy Makerspace project	Our school has a dedicated Makerspace room that has some STEM and Technology resources that can be used with K-6 students to increase and develop their skills across a range of curriculum areas. This dedicated space has been set out in a manner that allows for engaging and enriching learning to occur for all students with STEM learning.	
5/02/2019	Creation and Innovation Station	Hurstville Adventist School s Creation and Innovation Station will be dedicated to providing a creative, collaborative, stimulating and safe learning environment where all students will be given the opportunity to make connections, reason, problem solve, plan, design, experiment, explore, create and innovate on STEM projects. Students have access to a variety of tools, equipment and technology to assist them with their projects and will be encouraged to work both collaboratively and independently. Students will also be given time to discuss, reflect, give feedback and make connections between STEM and real life situations. Our school is very excited about creating this maker space for our students.	
5/02/2019	STEM & Robotics Maker Space	The STEM & Robotics Maker Space will provide children from a broad range of ages (5 year to 13 years), to engage in hands-on engineering activities. The spaces will allow them to engage in 21st Century learning through a problem solving approach that challenges their thinking in a range of curriculum areas. By designing, coding, prototyping and testing, students will display the skills of powerful learners agile thinking; learner driven enquiry, unleashing creativity and disciplined discussion leading to a culture of collaboration.	
6/02/2019	Aspire@BuderimSS.Makerspace	Buderim Mountain State School is committed to providing a challenging and engaging STEM Program across all year levels. The makerspace will assist in the delivery of our current STEM Program from Prep to Year 6. The space will also be used to assist our gifted and talented ASPIRE program. The aim of the makerspace is to promote creativity and collaboration amongst students and their teachers. Sustainability will be a major focus in the design of the makerspace with consideration towards materials/resources that can be reused and repurposed paramount in the implementation and design of the space. The aim will be to create minimal waste throughout the year.	
6/02/2019	Cootamundra High School Maker Space	The school is upgrading an underutilised classroom to create a more targeted resource room for STEM project based learning. The room will be refurnished and equipped to meet the needs of the curriculum and the students from a rural and remote school.	
6/02/2019	Holy Spirit Maker Space	Our Holy Spirit Maker Space will foster a mindset of community, creativity and collaboration. In our Maker Space students will work with hands on projects. This grant will enable us to establish and ensure our Maker Space is a well-resourced place where students are encouraged to pursue STEM disciplines to become innovative problem solvers and creative thinkers. This Maker Space will provided our students skills that are essential in a 21st century learning environment.	
6/02/2019	STEAMpit Makerspace	Engagement in our maker space leverages the learning of 21st century and STEM skills, digital literacy and embeds Australian Curriculum General Capabilities through 3D design and printing. It will be inclusive of ALL learners, allowing opportunity to apply STEM knowledge and skills with authentic, collaborative, hands-on inquiry-based projects. The project promotes multidisciplinary thinking and is embedded within the Australian Curriculum STEM subjects. The online platform will support teachers and learners alike to be innovative and entrepreneurial - to tinker, explore, discover and create new things using emerging and advancing technologies, therefore engaging, motivating, and generating curiosity in our students.	
7/02/2019	WIllyama STEM Makerspace	The STEM project being developed and implemented at Willyama High School involves the creation of an integrated STEM program for all of Stage 4, electives in Stage 5 and the possibility of extending the integrated STEM program across all of Stages 4 & 5. This includes the development of a makerspace where STEM can be undertaken, that is big enough to allow large numbers of students to engage in collaborative group work. The space will be set up for large classes with multiple teachers in one space delivering STEM projects and facilitating peer learning. The makerspace will be the dedicated STEM space within the school library and will include the required resources students need to access while engaging with STEM projects.	

7/02/2019	Creator s Corner	Exploring innovation, creativity and project-based learning, the Creator s corner in the Harry Hill Library at Tumut Public School will provide a space where students K-6 can become inventors in a supported way. Students will learn the skills of using the makerspace during their library lessons, then equipped with this knowledge, leap into lunchtime activities where they can explore and invent in ways of their choosing. Using ideas from the various aspects of STEAM, students will be offered the chance to explore a variety of materials from electronics, 3D printer, craft and art supplies and recycled materials. Projects will range from guided learning during library based lessons, to free choice projects during independent learning sessions.	
7/02/2019	Coniston's Makerspace	A technology, design and film space. Students will create, connect, collaborate and think critically in this space.	
7/02/2019	Ipswich Junior Grammar School s Bright Sparks Workshop	The Ipswich Junior Grammar School Bright Sparks Workshop is a multifaceted space that provides Weekly lessons to all students from Pre-Prep to Year Six based around ESTEAM, it also provides an incredibly active cocurricular program at lunchtimes, after school and during holiday periods, the after school and holiday times are open to all members of our community and we also provide Professional Learning opportunities to teachers in our area. We wish to establish a maker space component to our workshop to allow our students to tinker, build and invent and bring their imaginations to life. Students will be able to create invent and learn while developing invaluable skills in the realms of STEAM and also building their 21st century skills.	
7/02/2019	EHPS 3D HUB	A whole school Science & Technology classroom & program has been established to encourage & engage all K-6 students to explore & experiment with the world around them through problem-solving, critical thinking, investigation, collaboration, creating, testing, improving & sharing, with a healthy dose of failure mixed in. We aim to establish a dedicated 3D printing station within this space to further our program and integrate with our investigations and engagement with the Engineering Design Process . We plan to complete various STEM challenges & incorporate 3D printing across the NSW K-6 Science & Technology syllabus, providing opportunities for the four different types of thinking (Scientific, Computational, Design, Systems).	
7/02/2019	Jilliby STEM future maker space	Jilliby PS s Maker Space will be located in a vacant classroom. Our Maker space will initially be focused on Robotics using our existing and additional resources that the school hopes to purchase with this grant and funds from the P&C. We currently run an open lunch for any student run by parents. With this grant we can ensure that plans to expand the current program have financial support. This grant will help ensure that all students are engaged in learning rather than waiting for a resource to share. Our space will be where our students can come and learn and have fun with programming. As the space evolves we hope to consolidate our existing STEM resources and expand with the communities help and support.	
7/02/2019	The Swan Labs Programme	The program consists of a series of portable modules which can be utilised in most classrooms at the College. The maker space enhances student learning in their usual classroom environments. This will transform learning spaces into areas where students can gain practical knowledge and skills in design, technology, innovation, entrepreneurship and experience in working with emerging and advancing technologies. Portable modules allow for multiple classes to utilise components of the system at the same time. The initial system will have modules which include 3D printing, coding & robotics, and generic tinkering. Teachers and students will have the opportunity to work on challenging problems and projects through engaging practical activities.	
7/02/2019	Watsonia Height Primary School - Generation 3D and Beyond	WHPS will purchase a Zortrax 3D printer which will enable us to establish a 3D design and printing corner within our Discovery Learning Centre. Al 356 students from Prep to Grade 6 will utilise the space, allowing them to participate in activities to develop their creative minds though the use of cutting-edge technology. Such activities will allow the students to expand their design, imaginative thinking, spatial reasoning skills and knowledge of 2D to 3D conversion. These skills are known to be integral in building the foundation for these children to be lifelong learners and STEM enthusiasts. The children will engage in 3D design and printing activities within their Discovery Learning classes on a fortnightly basis.	
7/02/2019	3D Printing Maker Space	With the funds provided from this grant our college has built a 3D printing Marker space in the main library. Students are now able to access the space both in classes, in their brake times and after school. Teachers are now also able to use the space for classwork, teaching students 2001st century skills in the use of programming software and printing hardware.	
7/02/2019	Inspiration Stations	Good Shepherd s project is to create three mobile maker space stations to promote the integration of STEM in classrooms. They will allow students to build capacity in innovation and engage their imaginations. The purpose of maker space stations is to develop interest and confidence in undertaking STEM projects to gain lifelong skills. Use of the stations will be promoted in a specialist class with the aim that the stations will be taken back to classrooms and their use be integrated into programs. At Good Shepherd we want to in still the belief that anyone can design and build, and it is through doing that we learn.	
7/02/2019	Evatt Digital Explorer Space	Evatt School will establish a portable STEM digital explorer space which will be accessible for students from kindergarten to year 6 within their enquiry learning program. To further awaken the curiosity of our students in kindergarten to year 2 we will use Spheros (in addition to the mouse bots currently used) to enthuse and engage their curiosity. Year 3 6 students will move on to creating and engineering their own digital devices using micro : bits and Makey Makeys to ignite their passion to build and create future technologies. This grant will facilitate the expansion of our current technology resources to allow full participation to awaken and open students minds to the applications of everyday technologies	

7/02/2019	CREATE (construction, resource, engineering and technology environment	We aim to provide a learning environment accessible to the whole school, that fosters the natural curiosity of children and develops their lateral thinking and problem solving skills. We endeavour to encourage practical skills, creativity and entrepreneurial thinking. Developing STEM activities such as robotics and coding, will expose students to science, technology, engineering and maths. We would like to offer students a place where learning occurs through innovation, creativity, collaboration and the incorporation of 21st century skills. Our future vision is that the Makerspace would be a flexible space, able to be used for learning activities such as CAPA and the expansion and incorporation of cooking classes.	
8/02/2019	Technology Maker Space	The project involves the development of a Technology Maker Space specialising in the use of digital, additive technologies through the use of a 3D printer. An existing teaching environment will be partitioned to create a dedicated maker space. This learning environment will be utilised by students ranging from year 7 right through to year 12 across a range of key learning areas and subjects. The Technology Maker Space will be a safe, user-friendly environment where students and staff are welcome to experiment without fear of failure regardless of their current digital literacy level.	
8/02/2019	NXT Generation Makerspace	The NXT Generation Makerspace will compliment the existing dedicated information hub and be housed in this environment. The mobile space will be utilised for students to collaborate, build, design, explore and solve problem based activities using the latest technology available.	
8/02/2019	Wollondilly Anglican College Maker Space	The Wollondilly Anglican College Maker Space will be permanently set up the Sturt Information Resource Center. It will provide a space where both primary and secondary students can come to explore and experiment with a range of materials and resources. The focus will be on providing a creative space where students can design and build a variety of objects, machines and bridges. The space will also encourage students to develop their problem solving and logical thinking skills by providing activities that will expand their coding skills. Using robots, they will be inspired and have the opportunity to learn through connected play and coding.	
8/02/2019	Design and Technology Space	We will improve upon our shared Sport and Technology Shed. Our focus will be on woodwork and involve projects in Technology subjects in High School and Science in Primary.	
8/02/2019	Business and Innovation Hub	The Business and Innovation Hub at Doncaster Gardens Primary School will provide students with a flexible space in which they can develop solutions to real world problems by applying their classroom knowledge in Science, Engineering, Technology and Mathematics in practical ways. The Business and Innovation Hub will include a Maker Space equipped with tools and equipment to combine traditional making skills such as Wood Tech, with modern technology including 3D printing and electronics. The Hub will also contain a fully functioning kitchen including espresso machine so students can serve the local community with food and drinks. This student-led caf will give students business skills and raise money for worthy causes.	
11/02/2019	St Augustine's Primary School Maker Space	At St. Augustine s Primary School we are endeavouring to create a unique maker space area that will cater for small groups to work on STEM related projects with a specific focus on robotics and coding. The materials and equipment will be portable to enable all classes to utilise the equipment in their everyday lessons. We want to incorporate creativity and ingenuity through STEM in all of our project based learning and give our students the opportunity to face and solve problems of the future. A successful application will be the perfect catalyst in helping to fulfill our maker space dream.	
11/02/2019	Westmeadows Primary School Maker Space and 3D Design Project	For the first time ever this year, Westmeadows PS introduce Science as a specialist class for our students in Foundation to 6. All of the budget was expended setting up our purpose built Discovery Burrow . Adding a makerspace to our Discovery Burrow incorporating a 3D printer is the next step for us as we begin our journey to inspire our students in the area of STEM through problem based inquiry learning. Providing opportunities for our students to design solutions to real-world problems is an exciting direction for our staff and students at our school.	
11/02/2019	Making Space for Change at Caulfield South Primary School	In a compact school like Caulfield South Primary, space is at a premium and we don t have room for a designated Maker Space area. Maker-Space trolleys are the answer to maximising student exposure! These shared trolleys will allow our teachers to turn any classroom into a Maker Space, allowing students to investigate their Big Ideas when they arise, and not just once a week. In our International Baccalaureate curriculum, we focus on concepts such as Connection, Function and Form. Students need hands on opportunities to explore and observe these concepts in different ways, but we need tools, equipment and storage to do this effectively. This grant will enable our school to develop flexible Maker Spaces and boost our burgeoning STEM program.	
11/02/2019	Woodlands Maker Space	Woodlands Primary School will establish a purpose built Maker Space at the school which will act as a collaborative work space that students can use to create, explore and share their learning. Students will have access to tools and materials which will help them to investigate solutions to problems with and without the use of technology. The space will be used to foster entrepreneurship and promote creative and critical thinking.	
11/02/2019	Innovation without limit	With access to a designated maker space, staff and students will be supported in developing their ideas and interests beyond the classroom and sharing their knowledge and experience across the school. Firstly, areas of the maker space will be aligned to curriculum topics so that students can take something learnt in the classroom and explore it more deeply. Secondly, teachers will have the opportunity to utilise the maker space in their teaching and learning. Thirdly, students and teachers will be guided in the use of design thinking to identify, explore and solve issues of concern in the local community and beyond.	

11/02/2019	Living to Innovate and Create; Innovating and Creating to Live.	The maker space will be set up in a reorganised classroom area. This space will be accessible to all members of the learning community. It will have sections for making, creating and exploring using technology and robotics, natural resources, Lego, building materials and tools. The maker space configured to cater for all students different ways of learning and exploration to allow creativity, engagement and learning to flourish for all. Niangala maker space will be a flexible and innovative space where students will be encouraged to create, innovate and problem solve to assist them to be at ease with digital making and develop skills, resilience, creativity and an aspiration to thrive in an increasingly complex and digital world	
11/02/2019	Carinya Gunnedah Maker Space	The Maker Space will provide a space for students from Kindergarten to Year 7 to create and manufacture in a variety of ways. Robotics, 3D design and manufacture, electronics and coding will be the primary resources for the space.	
11/02/2019	Cr8te in a Space	Mudgeeraba Creek is located in the hinterland of the Gold Coast. We cater for approximately 700 students from Prep to Year 6. STEM has been part of our schools strategic plan for the past 3 years. We have a specialised Science and Technology teachers who support the entire school in learning about STEM. Mudgeeraba Creek considers themselves a leader in this area, winning awards for Regional and State competitions over the past six years. Enhancing our STEM Makerspace classrooms enables us to successfully continue on our journey of creating global thinkers.	
11/02/2019	Aerospace STEM and Digital Aviation for Aboriginal & remote students	It s Rocket Science will work in partnership with Polly Farmer Foundation and the Alice Springs Library to deliver aerospace STEM innovation workshops for students and a digital aviation STEM teacher professional development event for teachers across Alice Springs. The workshops will spark curiosity about aerospace and flight sciences. Students will access industry specialists to create, test, measure and evaluate data through experiments, hear about the latest in aerospace discovery, and learn about career options in aerospace and aviation. This program will enable disadvantaged students to access incredible learning opportunities and also support ongoing STEM by developing teachers' skill and confidence to deliver STEM programs.	
12/02/2019	Coding, Robotics and STEAM - Victorian Curriculum	A Discovery Center maker space will be established in, and share the current Library space, becoming a permanent learning area of St Joachim s Catholic Primary School moving forward. The Students will flourish when being immersed in the world of Coding, Robotics and STEAM on a weekly basis. Facilitated by Rebecca Todisco the students and staff will explore different coding languages, how to write code and the importance of code, robotics and STEAM of our shared future. Integrating learning into real world experiences will deepen the understanding of all who attend.	
12/02/2019	Creative Technology Maker Space at Westcourt Campus	The funding will help to establish a Creative Technology Maker Space at the Westcourt Campus of St Joseph s College Geelong to support the development of life-long, global and engaged learners. At the Westcourt campus, year 9 students are encouraged to develop 21st century skills through cross-curricular projects that utilise modern technologies. The funding will purchase a laser printer, and the school has committed to investing the additional purchase cost, ongoing maintenance and associated training costs. The laser cutter is essential for enabling a hands-on, authentic, project based learning environment that supports a wide range of projects within different courses and extracurricular programs.	
12/02/2019	Setting up an Autism friendly STEAM Maker Space	We aim to establish a new Maker Space within the school that is developed and set up to meet the needs of students with ASD. All classes at the school s two campuses, as well as the satellite rooms at Norris Bank Primary School will be able to access this space. Students of all learning abilities will have access to STEAM education at their individual levels.	
12/02/2019	Anson Street School - STEM mobile storage and construction materials	Anson Street School is a school for specific purpose and caters for children from K-12 with a range of disabilities including physical, intellectual, sensory, autism and mental health. Anson Street School provides specialist and intensive support in a dedicated setting for students with moderate to high learning and support needs. We would like to purchase storage for our maker space and some construction materials such as Lego and K Nex to add to the space. We currently do not have a designated space for STEM, and are interested in purchasing mobile storage. With a range of student abilities and ages we would also like to increase our variety of construction materials and purchase some STEM kits to use across the school K-12.	
12/02/2019	Husky Makey Spacey	The Husky Makey Spacey will be an identified maker space in the Huskisson Public School (HPS) library to encourage learning, development of skills and creativity with a technology focus. The Husky Makey Spacey will also include portable kits, enabling all teachers and students to access and use the portable kits in classrooms and other learning environments. The HMS will be available for all students from K-6, and include portable kits enabling all teachers to learn and create in multiple learning environments suited to creative and informal learning opportunities. The HMS supports the strategic direction for students to connect STEM learning to solve real world problems through individual and collaborative inquiry learning experiences.	
13/02/2019	MC Maker Space	Macquarie College is establishing a new maker space by converting two classrooms into a large, new, learning area. This space will be used by STEM classes as well STEM lessons for various year groups.	
13/02/2019	St Carthage's Maker Space	St Carthage's Maker Space will be a portable set of resources available to all teachers and students within our School. The goal is to enable all students to harness and develop their creativity and improve their practical skills both within the classroom setting. This maker-space will also be used to cater to students through a dedicated lunchtime activities.	

13/02/2019	Warranwood's Makerspace	Warranwood Primary is excited about setting up a Makerspace. We have identified that it will be a vital component to comprehensively teach 21st century skills that our students need to excel in an ever changing landscape. The space will be used to hone teachers abilities to explore key aspects of the STEM curriculum, developing students practical thinking skills, whilst gaining a deep understanding of the process of designing and creating. Our Makerspace will allow students to explore current and emerging technologies in a collaborative, multi-age environment. The space will be used by every class throughout the school, promoting creative thinking, collaboration and adapting ideas to create solutions to real life problems.	
13/02/2019	OLR Makerspace - i Design, i Make, i Discover!	i Design, i Make, i Discover! will be a school makerspace, which enables students to gain practical knowledge and skills in design, technology, and innovation through various explorative tinkering assignments. It will introduce students to new and innovative digital technologies including 3D technologies such as 3D design software and 3D printers maximising the potential for students to develop and apply STEM-based skills. Hands-on experience working with emerging and advancing technologies Authentic opportunities for students to design solutions to real-world problems Foster critical and creative thinking skills through design processes Provide a vehicle for engaging in problem-based inquiry learning Development of practi	
14/02/2019	HCP Library Makerspace	The provision of a dedicated Makerspace in the school Library, to be used by all years from Kindy to Year 12. This will encourage students investigating, tinkering and constructing in STEM related topics and build on the very basic consumables we currently have.	
14/02/2019	Joey's Jump To It Maker Space	St joseph's Coraki is dedicated to providing as many opportunities to access STEM resources as possible. Staff have committed to teaching STEM and Digital Technologies however are at the beginning of the journey. The hands on nature of a Maker Space appeals to our students, many of whom live on farms, and have a 'hands on', 'can do' attitude to their learning activities. Our student community has a high incidence of additional needs, we believe implementing a Maker Space would provide our students with meaningful, engaging and collaborative learning experiences that will enhance not only their STEM knowledge and understanding, but will also develop student s social skills and emotional wellbeing.	
14/02/2019	Full STEAM Ahead!	We will create an engaging, flexible and diverse learning space that facilitates critical and creative thinking skills for all students. The space will be utilised daily by staff members with a mentor teacher (teaching librarian), who will collaborate with staff and students in developing their understanding and knowledge of inquiry based learning. The space will house a variety of digital and kinaesthetic materials for designing and creating solutions to real world problems facing our 21st century learners. It is a space that will promote student centred discovery learning enabling them to have a deeper understanding of the world around them and the opportunity to develop STEMPATHY for issues in their local and global community.	
14/02/2019	St Therese Engaging Minds - STEM	St Therese Engaging Minds - STEM will focus on hands on experience working with emerging and advancing technologies. A permanent space will be set up within the school grounds to facilitate this engagement. Within the space students will have access to ipads, laptops, 3D printers, VR goggles,robots and construction materials. Students will be given opportunities to work in cross grade teams using technology to enhance their understanding and experience of the world in which they live.The students will be provided with authentic opportunities to design solutions to real-world problems and ideate their entrepreneurial skills. They will have the opportunity to present these ideas to the school and local community.	
14/02/2019	St James Portable Maker Space	The project will focus on developing two Maker Space trolleys, one for infants and one for primary classes. The portability of the maker space trolley allows them to be used in classrooms or in the Learning Hub, making them more versatile and accessible to all students. Our aim is to create creative people by allowing experimentation through exploration and creativity, in a structured learning environment. We hope to encourage students to find explanations and discovery through experimentation, and nurture reflection throughout the process. It will involve the use of digital technologies, in accordance with the new K-6 Science and Technology Syllabus.	
14/02/2019	Joey s Maker Space Project	The Joey s Maker Space will be a stem related Maker Space for K-6 that will provide opportunities for all students to engage and develop STEM and critical thinking skills. The project aims to encourage students to develop practical skills, creativity and entrepreneurial thinking, and gain experience in working with emerging and advancing technologies. It will be a permanent space that will ensure good management of resources but will also provide the flexibility to allow for equitable classroom access via mobility of resources to all classrooms and outdoor learning spaces, and lunch time access for students who are interested.	
15/02/2019	Code with Altino - Australian Curriculum	The grant will provide the opportunity to create a maker space and implement an A.I.-driven curriculum that is easy for teachers to facilitate, and engages students to learn how to code robotic driver less cars.	
15/02/2019	545 Makerspace	The 545 Makerspace will be used to engage and motivate students to develop an interest in learning about design, engineering, coding and programing. It will be centred around student inquiry, used as a tool to assist in driving their learning. Our students will be able to explore their own interests, learning to use tools and materials, both physical and virtual to develop creative projects. It will also aid in the delivery and exploration of the new Victorian Technologies Curriculum across our school.The 545 Makerspace will utilisise Lego and STEM resources for students to connect and tinker with whilst carrying out problem solving.	
15/02/2019	St Margaret's Primary School STEM Establishment Project	Establishing a STEM based Maker Space to develop our students and wider communities skills in Digital and Design Technologies	

15/02/2019	3D Makerlab	At St. Paul Apostle South we value our STEM program which acts as a vehicle for engaging in problem-based inquiry learning. Through this grant we aim to establish a makerspace with 3D design and printing to maximise the potential of our students to develop and apply STEM based skills. Our STEM program aims to provide authentic opportunities for students to design solutions to real world problems. 3D technologies will help ideate their entrepreneurial and innovative ideas. It fosters creative and critical thinking skills through engineering design process. Establishment of a 3d makerspace will allow for development of practical skills and safe practice with tools and equipment. It will allow for rapid prototyping and experimentation.	
15/02/2019	The Tinker Box	The Tinker Box project is about providing a safe space where students, staff and community members can collaborate and bring their designs to life. The Tinker Box is a purposely designed space that will provide the necessary tools, storage and resources to allow students to take their learning to the transfer stage. By using the skills and knowledge from explicit lessons, students, in conjunction with adults can bring their innovative thinking to life. Building partnerships between students and staff from our second campus and community organisations, like the Mens Shed, will enrich the learning opportunity and allow for important life skills to be shared.	
15/02/2019	Extending the STEM design capacity.	We established a maker space 2 years ago. We have been using school resourcing to establish the basic equipment and plant needed. Larger purchases such as a large scale printer and laser cutter is not possible in the foreseeable future. The students in our maker space have been exceptionally ingenious in their approaches to their projects in making accommodations to their materials. A laser cutter and a large scale printer will allow us to support our students in their designs and constructions here onsite and extending their capacity to build more robust projects and design concepts.	
15/02/2019	PYRMONT MAKER SPACE design, create, engineer, program, deliver	CULTURE AT WORK is offering Pyrmont Maker Projects to young people This program in our new purposed PYRMONT MAKER SPACE. The events and workshops will be held in its the new creative space. Students and local children four local primary school and Black Wattle Bay High schools will be invited to connect and attend. Students will engage in a workshop delivered by Laura Jade Hindes (The Light Brain),The events will be held at our new PYRMONT MAKER SPACE - a purposed space for innovation, creativity and science. for young people up to age 18. Students will engage with an experts and innovative tools and learn about a new potential field ripe for the innovation industries by leaders in Science, Augmented reality, Engineering and creativity.	
18/02/2019	Robots Come Alive - Creating interactive robots from recycled and cons	Students at Nelson Park School (a special school which educates students with intellectual disabilities) will work with other disciplines such as design technologies, art, performing arts, media, physical education and digital technologies to create robots with personalities that have the potential to interact with students. The Maker Space will provide an identified area for students to use equipment and materials to develop their creative and inquiring minds. The Maker Space will have the necessary supplies such as electronics, circuits, recycled materials, tools, art, sound and media equipment which will help them to explore and nurture their projects from the ideas phase to a completed robot. The projects will be linked to themes that	
18/02/2019	Middle Park Primary School Discovery Centre	MPPS will be creating a STEAM Discovery Centre which will include a maker space. It will be an area for students from F - 6 to work through and solve problems developing their critical and creative thinking and problem-solving skills. The Maker Space will be used to allow students to work together to create, invent and learn new skills as they engage with design thinking pedagogy. It will be integrated into the Discovery Centre and will have a range of hands-on equipment (including robotics) to enrich student learning. The space will also be used for a lunchtime Maker Space club. It will provide greater learning opportunities for students, an increase in students knowledge and enable them to be prepared for future studies and work.	
18/02/2019	Maker Spaces Across Mernda Park Primary School	At Mernda Park Primary School, we want to offer our students greater opportunities to utilise the state of the art STEAM (Science Technology Engineering Arts and Mathematics) rooms inside each learning community. These STEAM rooms are designated spaces where students come together to collaborate, create, share, fail, learn and explore. In each STEAM room, we intend to create a Maker Space where students combine design, art, technology, engineering, maths, science and entrepreneurial skills to create solutions to real world problems. These spaces will help students develop critical skills for 21st century workplaces in a way that balances structured learning activities with creative imagination.	
18/02/2019	Little Bits With Big Potential	Endless inventions will be created in our littleBits Makerspace by all year levels. The electronic building blocks will snap together as students work collaboratively to invent items with lights, sounds, sensors and motion. Our Makerspace will be located in a shared area of the school and will accessible by all year levels. Opt in Lunch clubs will also be run to allow for multi-age project design and allow students to play and experiment through active hands on experiences. A display area will be established to showcase inventions and build curiosity. Classes will work within their unit of inquiry to ignite student s curiosity and engage in active inquiry and problem solving to support their learning.	
18/02/2019	Plattsy s STEM	At Plattsburg Public School we have previously used funds from fundraising and some school funding to start to create a whole school STEM initiative. We have started to implement this but have found limitations in terms of a lack of resources and not having a dedicated portable maker space for sharing amongst our classes. We hope to purchase equipment to make a portable maker space so that all classes can have ease of access to the resources for greater integration into all classrooms. We hope to as part of that purchase more consumables for hands on STEM projects and activities as well as a charging solution for the robots we have.	

18/02/2019	Sparking Creativity: Night Light Project	The MakerSpace at Kerang Christian College will be used by students in the Secondary Design and Technology elective. Students will design a night light, and using the 3D printers and the accompanying software and tools, they will be able to materialize their designs. The initial project will serve as the foundation for a new approach to project-based learning. Not only are students creating a design but they are using technology and the MakerSpace to materialize it. Once the initial project is completed, students will then be able to transfer their skills, experience, and expertise to future projects, to fellow students, and to projects across the curriculum.	
18/02/2019	Girls and Drones	Our project is to create a Maker Space for our Year 8 students to participate in a STEM Drone project.	
18/02/2019	Modern Manufacturing Methods	With the developments in manufacturing methods over the last decade and their increasing availability to both skilled manufacturers and hobbyists alike, we will prepare our students to explore, understand and experiment with current manufacturing methods that have seen huge growth in the last decade, with the addition of 3D printing and laser cutting within our makerspace. These technologies will enable our students to design and construct solutions previously unavailable to many primary schools.	
19/02/2019	Bridgewood Maker Space	This project will help establish a makerspace within Bridgewood that students can access. It will support our school vision of "Improving the educational outcomes for every child every day."	
19/02/2019	The STEM Learning Hub	St John s Catholic Parish Primary School plans to create a Makerspace in a designated classroom specifically for STEM learning. It will be used by all year levels on a weekly basis. Teachers will team teach with the STEM leader to deliver the lessons based around the Inquiry learning concepts.	
19/02/2019	St Joseph's School STEM Project Lab	To provide portable storage space and expand our collection of STEM resources thus ensuring access to class sets of age-appropriate material, allowing easy integration of technological tools in the daily teaching of the STEM subject curriculum.The use of technological tools and computational thinking and language is most effective when not taught in isolation.To make integration as seamless as possible for the teachers and students, by providing the resources and the space to ensure the teaching of important real-life skills, including working with emerging and advancing technologies,is achievable. This will allow a balance between, building core content knowledge, encouraging practical skills and developing entrepreneurial/creative skills.	
19/02/2019	Making a change: Building student confidence and sparking creativity	In our small rural school in Far North Queensland, we wanted to embed a STEM-based approach to teaching and learning across the school. Our aim was to bring more purposeful, problem-based, hands-on, creative activities into our classrooms to engage our students and develop their skills as 21st century learners. To facilitate this in all classrooms, we decided to set up a mobile maker space, which could be easily transported. We equipped our mobile maker space with LEGO WeDo 2.0, and our teachers with the Lego s Education Curriculum, and set about building our students confidence and sparking their creativity through making.	
19/02/2019	Create a maker space for delivery of effective STEM related activities	The Maker Space will provide a permanent place where students, teachers and parents can come together to engage and explore STEM activities through the use of imagination, design, creating, testing, improving and sharing. This space will help maximise student engagement with STEM and give them access to explore with emerging technologies. We have been developing teacher and student capabilities in coding and robotics but lack dedicated space. A Maker Space will facilitate and extend ease of delivery of STEM lessons. It will allow collaboration, exploration and tinkering with materials to create solutions to challenge projects across our K-6. A Maker Space will encourage interest in and enthusiasm for problem based inquiry learning.	
19/02/2019	Kingsbry Primary School Makerspace	The Kingsbury Primary School Maker Space is one of inclusiveness. It is an open learning centre where many exciting opportunities exist for students to explore their passions and work collaboratively with others to create new and exciting solutions to real world problems. Students explore and learn core curriculum content through authentic and real world problems and applications. Student leadership in the space is encouraged and students are often learning with and from one another. Every class throughout the school will have the opportunity to attend the space to explore, invent, make, create, collaborate, enhance, learn!	
19/02/2019	St Spyridon College Junior School STEM Laboratory / Makerspace	Assist with the conversion of our ICT room into the St Spyridon STEM Laboratory / Makerspace, home to a variety of new and innovative technologies. Thereby encouraging student creativity and innovation, while also exploring learning opportunities with digital technologies. The ICT room s, current Windows desktop computers, will not be updated. Rather they will be replaced with iPad Pros (already purchased) and Chromebook laptops, freeing up desk space for making. We have expanded upon the coding applications we use, plus implementing new forms of robotics. This funding will enable us to expand our use of digital technologies for making, to including micro controllers, in the form of BBC Micro-Bits and sensors and 3D	
20/02/2019	Build It and They Will Come	Our Makerspace will have a strong focus on the creation process with 3D printers and Laser cutters. Students will learn design principles to apply these to creating and building projects to sell to the community developing not only problem solving skills, but entrepreneurial skills as well.	
20/02/2019	MCS Future Learners Mobile Maker Space	To develop and resource a mobile maker space to facilitate meaningful integration of 3D printing, mapping, modelling, and digital technologies into STEAM classes K-10. The space can be used across the school in line with K-6 Digital Technologies, Middle School STEAM, and 7-10 Tech Mandatory, Mathematics and Science to extend computational thinking skills alongside existing STEAM programs aimed at building soft skills such as resilience, communication and problem solving. The space would also allow extension into Stage 5 electives such as the iSTEM program. The addition of the mobile digital maker space will encourage deeper thinking skills and allow for diversification of projects within STEAM education across our schooling years.	

20/02/2019	Holy Family STEM Engagement Centre	The Holy Family STEM Engagement Centre will give students the opportunity to recognise their potential and pursue opportunities in science, technology, engineering and mathematics. The maker space we intend to produce will be portable to allow use across the whole school. It will include technology such as iPad's, Spheros, Parrot Drones and coding apps. It will be used from years 3-6 to help them develop the key skills around STEM. Students will be able to access this makerspace during explicit STEM lessons as well as other key learning areas as we endeavour as a school to integrate the concept of STEM into all areas of the curriculum through Inquiry Learning. The STEM club will also be able to access the Holy Family STEM Engagement Centre.	
20/02/2019	ROBOCADEMY: MAKERS OF TOMORROW	This space is a specialist makerspace focussed on the design, development and progamming of tomorrow's technology. The space encourages students from Maryborough SHS and across the region (Year 4 and above) to work on all aspects of coding languages, technological engineering and robotics. The creation of this engaging learning environment, both within and outside of the classroom structure will encourage student involvement.	
20/02/2019	Westgrove STEM Maker Space	The Westgrove STEM Maker Space will be a permanent space used by our students to develop practical skills and creativity to solve multifaceted problems. The maker space will provide students opportunities to follow the design process and problem solve throughout the planning, construction and improving phases. This will assist students in developing their persistence and a growth mindset by attempting to achieve success when faced with a challenging problem. The Westgrove Maker Space will provide opportunities for learners to practice their social communication and collaboration whilst problem solving in a variety of group tasks. A focus on STEM related problems will engage students in inter-disciplinary learning immersing them into 21st ce	
20/02/2019	Lara SC Makerspace A space to Tinker, Experiment, Make and Learn	This project will allow for a dedicated space and equipment for students to tinker, experiment, make and learn. They can apply their STEAM knowledge with emerging and advancing technologies such as 3D printers, a laser vinyl cutter and some small equipment such as raspberry pi and microbits.	
20/02/2019	A journey of Inquiry, Inspiration and Innovation	Our STEAM ENGINE is designed to inspire students to be innovative inquirers, improving student outcomes by equipping them with the necessary skills, knowledge, creativity and critical thinking to become 21st Century learners. Building on the success of our 2018 after school STEM Club our project aims to impart the knowledge and skills acquired by 2018 student participants, and the Project Leader, through a collaborative mentoring system. Our Project will fit-out our newly constructed STEAM ENGINE providing a flexible, engaging and inspiring space for students and staff; Implement a sustainable system of embedding STEM into every classroom.Develop and maintain teacher expertise through training ensuring quality pedagogy.	
20/02/2019	Epping West Public School Maker Space	A maker space will be established that will incorporate 3D technologies, including 3D design software and 3D printers in order to maximise the potential for students to develop and apply STEM skills. The space will be established in our existing Cre8 Studio and will provide students with hands on experience working with emerging and advancing technologies. The 3D printer and technologies will be incorporated into existing programs, allowing students to create and design solutions to real-world problems. Teachers are currently embedding the Engineering Design Process into STEM lessons. The addition of a makerspace with 3D design and printing will enable students to ideate their entrepreneurial and innovative ideas.	
20/02/2019	Launch into STEM at STM!	The aim of our project is to create a Maker Space Hub for the students at St Thomas More School. We have an allocated place for this in the school and would like to obtain some new resources to make it operational. We want to extend our students experience with digital technologies and go beyond the use of computer devices. It is our vision for the students at St Thomas More to learn to use digital technologies in more ways and to integrate digital technologies with other areas, such as Science, Engineering and Maths. We aim to introduce them to more robotics such as Little Bits and Micro Bits so they can be creators and problem solvers, not simply consumers.	
20/02/2019	Maker Space & S.T.E.M. at Cowes Primary School	We aim to foster creativity and inquiry based learning at Cowes Primary School through the establishment of a makerspace where students can apply their S.T.E.M. knowledge, develop entrepreneurial skills, and gain experience in working with emerging and advancing technologies. We plan on building a bank of emerging technologies and include 3D printing in our program to broaden the range of skills necessary for the ever evolving digital world. As a school we want to ensure students have the necessary skills and competencies to successfully navigate and actively contribute, both locally and globally, to our rapidly changing world. Our maker space is the vehicle for facilitating this vision.	
21/02/2019	Digital Technologies and Design Program	Our maker spaces are currently split across two centrally located areas of the school: the first, adjacent to our Digital Learning Centre and the second, based in our Digital Technology Classroom space. Both spaces can accommodate up to thirty students working at any one time, and both are resourced with a range of codable robotic devices which cater for all grades from Prep to Year 6. The maker spaces are currently used before school and at break times, under the supervision of teacher facilitators and with the assistance of trained student mentors sourced from Years Four to Six.	
21/02/2019	Milpera Maker Space Creative STEM and Language Learning	Milpera SHS is an on arrival intensive language and settlement preparation centre for recently arrived migrant and refugee backgrounds. A maker space project involving LEGO MIDSTORMS and coding will enhance our students IT skills and their English language skills. Our project will be implemented across all phases of our English language learning program. The establishment of a STEM lab where pedagogy is underpinned by co-operative learning including group and pair work will enhance the English Language skills of our students and support their later participation in a mainstream high school curriculum. The STEM maker space will provide an outstanding opportunity to grow the student s creative, cognitive and critical learning skills.	

21/02/2019	Code with Anki Cosmo	Ballarat High School is a large school with around 1450 students. We believe that coding is now a critical life skill and will embed coding principles into our core curriculum for all students. As a co-educational school we are committed to developing a program with broad cross gender appeal. We have identified the cosmo robots specifically with this in mind. Given the size of the school and the number of students we will create a portable maker space which can be used across three adjacent rooms.	
21/02/2019	STEM Learning Lab @ MCE	This grant will fund the 3D printer for a newly designed STEM Learning Lab at Marist College Eastwood. This space will allow students to develop their creative and critical thinking skills in Science, Technology, Engineering and Mathematics whilst also working in a collaborative setting. Students will be invited to take part in authentic learning experiences to develop solutions to real world problems, develop an aptitude for 3D CAD design tools, collect qualitative and quantitative data using data loggers and analyse the implications of their results on society. Students will have the opportunity to be a part of an innovative design process to create models as solutions to problems or as a learning tool to explore scientific phenomena.	
21/02/2019	Constructing, Collaborating and Creating At Lavington Public School	Lavington Public School will establish a maker space where children can focus on creating, inventing and learning in a safe, respectful and responsible environment. Our purpose built maker space will be used by children to collaboratively develop their coding and construction skills using physical and constructible robotics. They will also be able to construct accessories to augment these robots. The students will use art, craft and construction supplies in a self-directed environment to enhance their learning and skills. The use of emerging technologies and tools for personal fabrication, community sharing, and project collaboration and research will further enhance their knowledge and understanding.	
21/02/2019	Werrimull P-12 Makers Space	Werrimull P-12 aims to develop a Makers Space that provides our students with opportunities to be creative problem solvers. They will participate in activities that require innovation and imagination. Students will have access to useful tools, technology and materials that they can use to develop solutions to real-world challenges. Our Makers Space will be permanent and lead by Chris Harris who will teach students ranging from Grades Prep to Year 10. This Makers Space will be dedicated to providing students with a range of resources and skills that they can use in a variety of curriculum areas.	
21/02/2019	The Think Tank	My goal is to start small to create an ethos of innovation and design thinking by introducing robotics with a mobile maker space. A mobile trolley to house our existing 3D printer and maker tools is needed to provide space designed and dedicated to hands on creativity and innovation. It will assist with teaching STEM subjects while learning how science, engineering, math, and technology work together and interact. By introducing different ranges of robotics it will not only cater for all students K-6, it allows students to work through and move onto different level of difficulties with robotics. This differentiated setup for making, integrating varying robotic projects into teaching programs will assist STEM and inspire small interest group	
21/02/2019	Future focused learning with LEGO	A maker space will be established in the AV room next to the library, and will be a space for STEM, with a focus on coding and robotics. All students from Years K to 6 will benefit, with units of work already sourced to support their implementation into teacher programs. The project will be led by Ella Clayton and Melissa Unsworth. The grant will provide us with ten LEGO Education WeDo 2.0 kits,a flexible resource allowing scaffolded learning experiences across all stages, that the students will learn to control by using custom coding apps on the school iPads. We hope to see the incredible engagement and creativity of our students continue with the implementation of new robotics resources in the school on a permanent basis.	
21/02/2019	Ringrose Public School Maker Space	The Ringrose Public School Maker Space will be an environment that fosters the development of critical and creative thinking. Students will participate in authentic learning experiences where they will explore, design, create and use higher order problem solving skills. A student-centred approach will promote high levels of engagement and participation. Students will develop their knowledge and understanding of digital technologies through using equipment such as Edison Robots and Blue-Bots. The Ringrose Public School Maker Space will help equip our students with future life skills. The 2018 2020 School Technology Plan is inclusive of the development of the space and in 2019, the new area will be opened.	
21/02/2019	Invent to Learn-Immerse Yourself in the Future	The Makerspace at Eaglehawk Secondary College will be divided into two parts: a virtual reality Maker Space and a physical Maker Space. Students will be provided with challenges designed to encourage creativity and entrepreneurial skills within the classroom. The space will be dedicated primarily to Year 7s undertaking a project based learning subject and utilised by other STEAM based subjects. The VR Maker Space will be used to inspire creativity and fully immerse students in their learning of content and skills. The Physical Maker Space will be used to construct prototypes/models and for design thinking based work. Whilst both Maker Spaces will be portable in nature, they will have a dedicated learning space.	
21/02/2019	Applications of Robotics and Coding in Real World Applications	A designated maker space will be created in Science Lab 4 which is to be a STEM focus Learning Space within the school. The project will be overseen by Mr Christopher Whicker. The pace will provide across KLA access to the STEM project material stored in the space and used within. The room is approximately 84m2 in area	
21/02/2019	RVPS STEM Club (Maker Space with Digital Technologies)	Russell Vale Robots and Master Builders is a STEM Club (Maker Space with Digital Technologies) that allows small teams of both Primary and Infants students to complete STEM inquiry challenges together as a team. This is a lunch time club that will allow students to excel with their own skills and build capacity for them to become classroom mentors. It allows students to further explore STEM outcomes and develop their digital technology skills in line with the new curriculum. Also exploring concepts of digital, computational and systems thinking.	

22/02/2019	Making and creating with STEM	We are creating a fixed maker space in a currently underutilised portable classroom. It is intended that this space will be used for focussed and specific teaching around skills needed for STEM thinking, allowing teachers and students to engage in designing and creating to meet different needs. It will also give us a central storage area for science, technology, design and construction tools, equipment and materials, from where teachers can borrow for use in their own learning spaces.	
22/02/2019	Moorefield Girls High School	Moorefield Girls High School has a dedicated dry lab that the Science faculty has been using to implement various future focused across all stages, such as bridge building, mars rovers and model making. To increase the reach of STEM we would like to redesign the room to become a permanent school maker space.	
22/02/2019	Northbridge Public School Innovation Lab	We would like to transform our current Computer lab to address the needs of the future by creating a flexible learning space which includes tools and learning experiences that are future-focused. The Innovation Lab will highlight the benefit of engaging learners in creative, higher-order problem-solving through hands-on design, construction, and iteration. Our Innovation Lab will appeal to students of all ages, and is founded on openness to experiment, iterate, and create. In this landscape, creativity, design, and engineering will make their way to the forefront of educational considerations, as tools such as 3D printers, robotics, coding and 3D modeling web-based applications will become accessible to all students in K-6.	
22/02/2019	Maker Central: Lego Inventions as Learning	Maker Central will be established as a maker space where students from Years 1 6 will use Lego robotics construction kits to build machines that can interact with users and the environment. Our maker space will utilise Lego as a snap together invention vehicle for learning design, engineering, science, math and coding. Students at Maker Central will be challenged to use machine design thinking to solve contextualised challenges with meaningful relevance linked to the Australian curriculum. Connections between students and community will be made by incorporating local industry and Aboriginal mentors into the program. Maker Central will foster sustainable student-to-student, student-to-mentor and student-to-community connectedness.	
22/02/2019	Maker-Lab Preshil Senior Campus	A "Maker-Lab" at Preshil would be an inspired addition to the educational lineup, re-inventing science, math, engineering and artistic endeavors at the school. A shared learning space equipped with the latest vector based software and laser cutter to give students and adults alike the passion for learning, inventing and inspiring others to create ideas.	
22/02/2019	Building student self efficacy through STEM	Through the the introduction of a new maker space our project, Building student self efficacy through STEM aims to provide voice and choice to our students, in turn building their self efficacy as learners. Due to significant social disadvantage and generational poverty the students from St Thomas Aquinas often are disengaged from learning. It is hypothesised that through the introduction of STEM within are own resourced maker space we believe our students will more deeply understand themselves as learners and begin to view themselves as engaged, confident and capable creators of learning.	
25/02/2019	Growth Marketing & Lean Startup expert for 2019 SBC Energy Australia	Startupbootcamp Energy Australia is a globally renowned mentor-driven accelerator program that seeks to provide support for startups from across the globe working the smart energy field. This support is given not only through seed funding, but through office space, access to technology, guidance on pitching and most importantly access to over 100 industry-expert mentors who will provide unique advice and help to the start-ups and their concepts. This program not only helps shape the smart energy field of the future but adds to the growing ecosystem of startups in Melbourne. The Growth Marketing & Experimental Design expert will provide global best practice, workshops, mentoring and support to the startups on the 3 month program & local st	
25/02/2019	Tinker Time	St Joseph s, Tinker Time space is a dedicated tinkering space for students to explore all things STEM. Students spend a dedicated 60 minutes every week in our permanent tinkering space. Activities are designed to encompass multiple STEM disciplines to nurture individual creativity and curiosity. Activites range from squishy and wired circuits to hydraulics, propulsion, motors and robotics. It is a place to light things up and make things move. To support our school wide commitment to sustainability, we design activities to promote sustainable costruction from upcycled and repurposed materials and resources directly from our environment. Our dedicated maker space is designed to ignite curiosity, inspire invention and encourage exploration.	
25/02/2019	Engaging students in STEM in everyday life - 3D Printing applications	A mobile 3D construction space will be created that can be used to create products, build models, and explore concepts across a broad range of subjects. This is to promote the application of STEM subjects in everyday life and to encourage students to see how knowledge of STEM can be used beyond their schooling.	
25/02/2019	St Mary s Makerspace: Making a space for creativity	This project will create a permanent Makerspace for our K-6 school community, to focus on creativity, innovation and design grounded in the Digital Technologies curriculum This space and resources would allow for the development of teacher and student skills and understandings in relation to the Digital Technologies curriculum, as well as a focus on leveraging the learning potential across the whole curriculum. A specific focus on coding, robotics, scientific exploration, 3D design and printing as well as creativity and innovation through a design and Makerspace environment.	
25/02/2019	Henderson College Maker Space	Henderson College seeks to establish a permanent maker space that will allow student to explore their creativity and problem solving skills. Students from prep to year 10 will be able to access the space and compete in specifically designed tasks either individually or as a group.	
25/02/2019	Gundagai Public School Makerspace	The Gundagai Public School makerspace will focus on building a collaborative and creative learning environment using electronic, digital and craft activities. It will develop a culture of creating rather than consuming, fostering play, exploration and participation to engage students and encourage original solutions to common challenges. The makerspace will encourage failure as an opportunity to learn in order to bring about an understanding that the processes of creativity and innovation often include small successes and frequent mistakes.	

25/02/2019	Making STEM	The MAKING STEM project aims to build a portable Makerspace that provides innovative activities, strategies and materials to complement the school curriculum. The project also aims to enhance hands-on learning experiences for students and allow building and making to become a viable option for teachers when planning. The Makerspace will benefit students K-6, and provide open access to teachers based on a flexible timetable. The project continues the learning journey started during the 2018 STEM academy, facilitated by the University of Sydney. The Makerspace will provide an avenue for teachers to enable the hands-on learning, as well as the design and making aspects of the new science syllabus, for implementation in 2020.	
25/02/2019	St Andrew's Maker Space	The makerspace will be established with the intent of increasing student, hands-on engagement within the STEM field. Specifically, students will be encourage to develop a skill set that previously, is quite difficult to establish within a classroom setting. This skills include physical problem solving, creativity, problem solving etc...	
26/02/2019	The ColLABoratory	The ColLABoratory will be a dedicated classroom transformed into a hub for students to innovate, collaborate, prototype and create innovations. A range of technology will be made accessible along with a set of LittleBits Education STEAM kits and recyclable materials in organised storage systems that would be purchased to ensure equipment will always be ready to use. It will foster cross stage collaboration, communication and leadership as students from multiple age groups will use the space at one time, working together on various projects. All students will have access to the room during a scheduled time. A specialised teacher will be on hand to guide students through the design thinking process.	
26/02/2019	Establish a 3D Design and Printing Makerspace	The aim of this project will be to establish a 3D design and printing makerspace to provide the students of Minyip Primary School hands-on and practical experience with emerging and advancing technologies. Students and Teachers will be given high level tuition in 3D design programming, linked to curriculum outcomes that will engage them in producing solutions to real world problems. The innovative design process will foster critical and creative thinking, through the vehicle of problem-based learning and inquiry. Students will build a repertoire of STEM based skills, tools and processes for designing and making, which will complement all elements of their rich learning experiences at school.	
26/02/2019	Cross Curricular STEM Store	We have a dedicated and inspired team of teachers who are incorporating a variety of STEM and technology activities into our units of work across the school. Our Maker Space will include transportable storage boxes that teachers can take to their classroom as well as a 3D printer that will be in a designated room that teachers and students would be able to use.We would like to have the resources that students can incorporate into their learning when working in collaborative groups to design and make projects with a 3D printer. This will enhance the science and technology projects we have within the school including STEM days and gifted and talented opportunities.	
27/02/2019	Empowering Young Minds; to engage them by using current technologies.	Berkeley Vale Campus prides itself on delivering high quality and engaging teaching and learning activities. We currently have a Digital Sparks Year 8 course and a Year 9 STEM course which delivers a high quality and well-rounded introduction into the STEM world yet we do not have a central space for students to work. The creation of a makerspace at the school will provide all day access for students into a room where they can feel comfortable and gain experience in working with emerging and advanced technologies. This room will be the focus for our 3D Printing Digital Sparks Course while being open for students to come and work in during recess and lunch on their own projects	
27/02/2019	Innovative Learning Technology HUB (ILT HUB)	The aim of this ILT Hub is to provide an integrated learning space with real world technology equipment such as a Laser cutter & 3D printers with an aim to optimise creativity, provide collaborative learning spaces; allowing for problem solving & engagement of innovative ideas. Designing, creating, producing & entering future STEM career pathways. This equipment would be utilised to produce items made from a base of textile, plastic, metal and/or timber. Utilising industry experienced teachers and having strong links with local industries would assist in the entrepreneurship of these ideas. Linking STEM knowledge and skills to produce engaging and tangible outcomes is essential for this competitive and technological world that our student	
27/02/2019	Imagination station	We aim to expand the current maker space in the library at Tenambit Public School to enable an exciting future focused learning environment for students in the school. At the moment, the maker space uses low tech resources for students to plan and build projects using basic craft materials and construction kits. The addition of Lego robotic kits, Little bits coding kits and Dash and Dot robots will allow an endless range of inventions to be created using motors, sensors, lights and sound buzzers as well as incorporating coding capabilities, allowing the development of critical future focused skills.	
27/02/2019	OLA Maker Space STEM room - promoting inquiry,innovation and creation	Our Lady of the Angels' (OLA) is a co-educational primary school on Brisbane's northside, with 600 students currently enrolled. Our growing school offers contemporary teaching and learning practices, embracing technology and STEM. As of this year (2018) we have established a dedicated Maker Space/STEM room with a newly appointed ICT/E-learning Coordinator. This space facilitates an environment where digital design and technology are integrated into enhancing curriculum based STEM learning for our students in grades 3-6 by providing exposure to a range of current science and maths technologies, fostering an appreciation of social networking and project-based learning. We hope that this grant will allow us to purchase additional ICT resources	
28/02/2019	Elizabeth College MakerSpace	The Elizabeth College MakerSpace is part of a student enrichment program that will enable students to design and build their own contemporary technologies. This grant will allow for the creation of a dedicated space for the set up and storage of equipment including a 3D printer, filament recycler and a cnc (computer numerical control) cutter as well as associated robotics components. Access to these facilities will grant students much more flexibility as they participate in STEM projects. It will provide the opportunity for students to explore the wide-ranging applications of these new technologies, as they engage in the design and creation of their own personal projects.	

28/02/2019	Preston Prototype Maker Space	Th Preston Prototype Maker Space will be a space that will give authentic learning opportunities for students to be curious, creative and critical thinkers. This project will allow the purchasing of resources that will facilitate cross curricular learning for students in co-curricular classes as well as timetables classes allowing them to connect STEM concepts across all disciplines.	
28/02/2019	Mildura South PS Stem Centre	At Mildura South Primary School we would love to create a Maker Space or STEM centre. We would love an engaging, flexible learning environment where students can explore areas of interest and be engaged in STEM activities. Students will participate in unplugged activities and use devices and robotics in their learning. This space would be used by students across the school on a daily basis. A specialist teacher would run classes for grades 3-6 and the infants would be able to enjoy learning here with their classroom teachers. The space would also be open during some lunch times for children who show interest in this area and to encourage others to try new things.	
28/02/2019	Bush Resource Garden Signage	Newcastle Waldorf School is in the process of establishing a garden of indigenous plants that can be used for food, medicine or craft. The project involves using the laser to engrave signs with pictures and detailed descriptions of each plant and its uses in the garden. The project will initially involve high school students in years 7,8,9 &10. The maker space will be a part of the TAS building computer lab used in conjunction with the TAS workshop area	
1/03/2019	Implementing a sustainable whole-school approach to teaching and learn	Staff at EDPS have been mentored by an Advanced Skills STEM Teacher in 2018 to support them in building their skillset to enable them to effectively teach STEM lessons. Mentoring has involved modelling best teaching practices, coaching staff, providing resources, scaffolded planning sessions and out of class support. In 2019, teachers will be upskilled enough to participate in a whole-school focus to teaching STEM. The establishment of a school maker space will provide the necessary resources to allow students across all grades to access materials and equipment to maximise their learning during timetabled STEM lessons. Resources purchased through this grant will be used to further the learning of all students in STEM	
1/03/2019	MenaiMaker	Following a surge in interest in STEM and Inquiry Learning at Menai High School, a portable Makerspace is being established to raise engagement and pique interest in students. Being able to quickly transport the Makerspace through each of our 8 Lab spaces will provide an efficient means of maximising use by our staff and 1200 students. We intend for this space to be used for our Genius Hour and Shark Tank projects in years 7-10 and in our student s depth studies (Year 11) and SRPs conducted in Years 8 and 10. Our Extension Science students will also make good use of being able to design and build innovative solutions to authentic problems through accessing tools such as CAD software and 3D scanners and printers.	
1/03/2019	Emmaville Central School Maker Lab	The makerspace to be established at Emmaville Central School will be accessed by Primary and Secondary Students to complete syllabus requirements and to utilise this space to complete STEM programs and activities. Students will be encouraged to embrace the maker space values of: Fostering play, exploration and participatory learning Participating in informal learning opportunities where connections between home, school, and community are enabled and encouraged. Collaborative learning where educators and students pool their skills and knowledge and share in the tasks of teaching and learning; Developing a culture of creating as opposed to consuming.	
1/03/2019	Huonville HotSpot	Students at Huonville Primary School were greatly inspired this year with the National Science Week theme of - Game Changers and Change Makers. To support their interest in advancing technologies, we intend to establish a dedicated Maker Space that can be utilised by all classes from Kinder through to Year 6. The Maker Space, through support by a dedicated STEM teacher, will include 3D technologies such as 3D design software and 3D printers to maximise the potential for students to develop and apply STEM based skills to real world problems. The school is currently focused on how we can be more environmentally sustainable and the 3D technologies will provide authentic opportunities for students to engage with this.	
1/03/2019	Make a Space for Legotronics	Make a Space for Legotronics will be a lunch time club for students of all abilities, that will provide a space of creative freedom for students to design, create and explore through various forms of Lego. It will create opportunities for fine and gross motor skill development as well communication and team work among peers. Make a Space for Legotronics will become a learning environment that is natural, unstructured and student led. It will incorporate all aspects of the STEM curriculum through inquiry-based learning.	
1/03/2019	Havenview Maker Space Building a Culture for 21st Century Thinking	A designated Maker Space in our school will support flexible and inquiry based learning. Students will access the space at various times during the day to develop their creative problem solving, team work, communication and design skills. It will be a designated open learning space providing secure storage and easy access to STEAM resources for students and staff. A maker space will be established in the current multipurpose room, which is 7m by 6m in size.	
1/03/2019	Mt Maria College Mitchelton MMC MakerSpace Club Igniting STEM	The MMC MakerSpace & subsequent MakerSpace Club will foster curiosity regarding robotics, coding & advance programming for students. The dedicated space will incorporate Interdisciplinary resources such as robotics, coding, programming & drones, for all year levels & teachers fostering whole-college excitement & learning of STEM curriculum. Building on existing relationships with over 20 feeder primary schools, they will have access to the resources & curriculum during their existing excursions, open days & high school taster & orientation days. Furthermore, this resource will support the establishment of a MMC Makerspace Club to provide ongoing support for students to collaborate, exchange ideas & meet likeminded students.	
1/03/2019	Coding with Altino; Digital Technologies and the Australian Curriculum	A maker space will be established in the 240 room, and will be 5 m by 5M in size. All students from Years 9 to 9 will participate in the Code with Altino Digital Curriculum and will be led by Ben Wilson who is Assistant Principal. The grant will provide us with four, rechargeable AI (artificially intelligent) robot cars (Altino Version 3.0), with multi-sensors that the students will learn to control by programming in the Scratch language as a start, then progression to Arduino Sketch C language. In addition a digital version of the Australian Code with Altino Curriculum which is mapped to ACARA STEM outcomes.	

1/03/2019	Increased student engagement and participation using robotics.	Montello Primary school would like to immerse students into the exciting world of coding and programming. Montello s Maker s Space will expose students to new and exciting technologies. It will enhance their computing skills and provide experiences using interactive tools and robotics. Robots are a fun, easy, and effective way to learn about computer programming. Students get a real buzz out of programming robots and incorporating them into our practice will excite and engage them. The Maker s Space will be suitable for differing abilities and will drive students to succeed in areas they wouldn t have previously thought about. Programming robots also fits nicely into the digital technologies curriculum.	
1/03/2019	Creativity space	This project will build on our visual art and STEM programs, and our Woodworking Shed welfare initiative, to create a space where students can drop in to create and explore. In doing so they will develop skills working in emerging technologies.	
4/03/2019	Club coding	Our Club Coding Maker Space will allow for student experimentation with very simple to more complex technologies to explore the world of coding using programmable devices. The whole school, from Foundation to Year 6, will have access to the maker space throughout the year within weekly Digital Technologies classes, other timetabled sessions and lunch time Code Club . We plan for the students to have access to the marker space at every opportunity possible.	
4/03/2019	Our First MakerSpace	At St Mary s Primary School, we would like to establish a portable MakerSpace that provides our students with hands on ways to deeply engage in the use of robotics and technology to enhance their computational thinking, and critical and creative thinking. The resourcing of a Lego WeDo set will provide opportunities for a portable MakerSpace where students can explore, be creative and learn by doing.	
4/03/2019	Livingstone STEAM Hub	Students will combine low-tech materials with our growing collection of robotics to prototype and create solutions to real world problems in our maker space. We aim to provide opportunities for genuine student agency, and our maker space and STEAM approach will be integral to meeting this goal. The maker space will be used on a fortnightly basis by all classes in response to their inquiry projects, but will also be a home for lunch time and out of class activities to engage targeted groups in the school, including those who may otherwise become disengaged in the STEAM areas, and students who wish to use the space to further their own interests.	
4/03/2019	Code with Altino	Maker Space will be established in the Library allowing a 5m x 5m space to operate. The space will be used from Transition to Years 6 on a rotational basis.	
4/03/2019	Joey's Mobile Makers	St Joseph s School the Strand s project Joeys Mobile Makers will allow our students to engage in invention, creativity and resourcefulness and integrate hands-on learning through experimentation. By utilising a mobile maker space, our school can overcome the lack of consistently available space and bring the learning opportunities to every classroom. Our school is committed to investing in resources that will help students build the necessary skills which will give them the best opportunity for success in a rapidly changing world. Joeys Mobile Makers will nuture collaboration, creative and critical thinking and innovation in a fun and engaging way.	
5/03/2019	STEM on Wheels	Jindabyne Central School is one of the fastest growing central schools in NSW. Due to our rural location and limited access to reliable technology, students have had minimal exposure to STEM and its real world relevance. The school is committed to the promotion of STEM across the whole school, and the development of key STEM-based future employability skills. Our portable makerspaces would be adaptive and will focus on the use of repurposed, recycled items, along with the inclusion of some robotics/electronic technologies. The makerspaces will promote creativity, collaboration and problem solving, and will assist teachers to deliver curriculum in an innovative and contextually relevant manner.	
5/03/2019	Think, Make, Do FabLab	Think , Make, Do FabLab will provide equitable access for students to STEM specific equipment that will foster their inquisitive and creative nature. We have been exploring STEM projects with year 7-10 classes in traditional learning spaces. We aim to create a permanent maker space to support the longevity of STEM at Orara High School. This will enable all students, from all backgrounds to have equitable access to resources that are currently beyond their means. This space will have specialised equipment, such as a laser cutter and robotics, to enable students to use this multipurpose area as they explore STEM concepts in a real world context.	
5/03/2019	MMPS Creative Learning Centre	Mary s Mount will focus on a classroom integrated, mobile Maker Space centre to develop the creativity and entrepreneurial skills of students. The school has already established a Creative Learning Centre where IT is used to support the design and learning skills of students. The development of an integrated and mobile Make Space will further enhance inquiry-based leaning to support students, school and wider community. It will develop skills in creativity, ingenuity and entrepreneurship to provide resources and funding of future projects. The integrated centre and mobile Maker Space allows access for all classes from 4K to Year 6 to utilise the valuable resources. It will also incorporate our Sustainability solutions already established.	
5/03/2019	STEM ON THE MOVE - Mobile Stem Stations	Grant funds will be used to support the facilitation of two mobile STEM stations. One to be placed in a designated STEM space and the other to move into classrooms when required. The STEM stations/maker space trolleys will be purchased as a unit and then out fitted with Makedo Cardboard Construction kits, class set of Micro:Bits and a Sam Lab STEM kit. There will be storage for other related STEM tools as well as charging stations for robots and other electronic devices. These STEM trolleys will allow our school to build on STEM within out school but also allow for further integration of STEM with the curriculum.	
5/03/2019	The Hub	As a school we are looking to further implement the Digital Technologies strand of the new Science and Technology syllabus. Our vision is to convert our school library to become The Hub . This will continue to be a library and incorporate dedicated space for students to access technology weekly. This will be a flexible space where students engage in STEM activities facilitated by the STEM co-ordinator. A range of resources will be available for students to access and explore as they participate in independent and group projects.	

5/03/2019	Aquinas Maker Space. Transforming STEM using 3D Technologies.	STEM has become a major focus in the Junior School at Aquinas College in 2018 and in response, the students have developed new, intriguing ideas of how to design and engineer things. Through the introduction of 3D technologies, the boys will be exposed to new methods to both design and engineer, maximising their potential to develop and apply STEM based skills. The potential advantages and experiences that 3D technologies will provide the Aquinas Junior School are endless. From school-wide engagements to peer mentoring and cross-curriculum integration, the makerspace will be a collaborative space for the entire school community from Kindergarten to Year 6.	
5/03/2019	'FULL STEM AHEAD'	At St Joseph s School, Tenterfield we will transform an unused classroom into our Science Space . Our room will be launched with a Science Fair for students (K-6) and local community. Students will display completed Science activities to show what can be achieved in STEM/Science and Technology lessons. Classes will complete their STEM/Science and Technology lessons in the classroom where they have the freedom to experiment /create with scientific materials and robotics. This area will also provide a space for materials to be stored in a secure area. The new Science Syllabus for Primary grades, mandatory 2019, requires students to use robotics and to extend their creativity and design skills along with their scientific knowledge.	
5/03/2019	m3	Footscray Primary School will create a mobile mini makerspace (m3) to foster creativity, tinkering, and experimentation with simple technology and everyday materials. m3 will turn any space into a makerspace, and allow students and teachers to collaboratively develop and apply STEM knowledge.	
5/03/2019	BGHS Maker Space	Blacktown Girls High School is seeking to expand our 3D printer capacity from one to five units. The 3D printers will have a dedicated maker space room that the CAPA and TAS faculties will use as part of their teaching programs in dedicated 3D design units of work.	
5/03/2019	Primary School Robotics	Project description A portable electronics and robotics maker space that engages primary students in STEM subjects and prepares them for high school. Our aim: To develop STEM skills in the primary school, in particular block based programming languages and robotics. We hope to build enthusiasm for digital technologies and coding. We aim to improve primary students exposure to circuits and programming in order to better prepare them for high school STEM. Our hope for more students to choose STEM based electives in senior school.	
5/03/2019	Maker Space on the Move	Our school consists of 543 students, from diverse social and ethnic backgrounds. Our Maker Space is extremely popular with our primary students and due to the efforts of our incredible Maker Project Champion, Julie McKenzie, interest in this area is growing rapidly within the early childhood classes. Presently, our Maker Space is restricted to one area of our school and access is dependent on the timetabling of specialist lessons and school assemblies. It is our aim to continue to foster our students interest in this area by evolving our maker space to become mobile, allowing greater access to our resources across grade levels and allowing resources to be used on a regular basis in the classrooms.	
5/03/2019	SMH: Makers and Shakers of the future	We are aiming to establish our first Makerspace for our school community. We have been focusing on STEM education across Years 3-6 this year but have been limited by the access we have to current and modern resources. The Makerspace will include: purposeful furniture, craft tools, makey makeys, microbits, mbots and Ozobots. We have keen and vibrant staff members who will support each other in the development of our Makerspace. The resources will be used during lunchtime code club sessions as well as weekly scheduled lessons for all Year 3-6 students. We will document and share our successes through our shared online platform Class Dojo.	
6/03/2019	St Helena s Portable Maker Space	St Helena s aims to establish a portable maker space for use by students and teachers in any classroom or location. By creating a portable maker space this will allow for meaningful integration into teaching and learning programs. Classes will have the flexibility to design and create from any location in the school to suit their project. The maker space will contain tools and equipment suitable for all students from Kindergarten to Year 6 to promote and develop critical and creative thinking. One component of the space will be the inclusion of a 3D printer to allow students to design and create unique components for their projects.	
6/03/2019	The PPS Vision Lab	PPS seeks to establish a dedicated STEAMED makerspace focussed on providing an education space where students, both individually and in groups, are encouraged to learn, explore, design, create and collaborate ideas through the guided use of STEAM equipment and materials. Targeting students in the middle and upper primary years, our aim is to increase technological literacy and holistic thinking, with the goal of fostering empathy, drive and capability within our students to create digital solutions to real world problems. With the use of virtual reality headsets we can put our students in the virtual shoes of others, overcome the barriers of education in rural and remote areas and bring the world s classroom to Pinnaroo.	
6/03/2019	Pop Up Makerspace Learning Stations	The creation of our Mobile Pop Up Makerspaces will support hands-on learning, exploration of materials and provide opportunities for students to explore and discover. We plan to establish three mobile makerspace learning stations. The Pop Up Makerspaces will be available for teachers to borrow, with the aim to have one available for each sector in our school. (Prep-Year 1)(Year 2-3)(Year 4-6) Teachers will have the opportunity to borrow a mobile trolley full of age appropriate materials that encourage creativity and problem solving. Students can explore new ideas in a collaborative and creative learning space that may pop up in the classroom or playground.	
7/03/2019	The stop-motion studio cube!	This space will house a custom-built stop-motion studio for students to design, shoot, edit and produce their own stop-motion films for a variety of subjects, and for fun!. A range of materials will be on hand to use for their sets including plasticine, Lego and paper and electronics.	
7/03/2019	Build Over Buy	Our maker space aims to go beyond store-bought kits and empower students to create their own variants on an existing idea, then designing beyond to a new level of innovation.	
7/03/2019	Makers of Leaders	Creating maker spaces within our school to inspire our students and teachers to seek authentic knowledge based on connections beyond our classrooms.	

7/03/2019	NAPS Construction and Technology Maker Space	The NAPS Construction and Technology Maker Space will be an open area purpose built Maker Space. Our Maker Space will be open for classes to book during lessons, utilised buy our Specialist STEM Teachers and regularly opened during break times for students to create and explore.	
7/03/2019	RoboSTEM Passion Project	Newcastle High School is located in NSW and already has a thriving STEM focus. We plan to implement a new Makerspace Passion Project called RoboSTEM. The MakerSpace will provide students with the freedom to create and develop their own projects using STEM based learning resources like the LEGO EV3 Robotics, MakeyMakey, LittleBits, mbots, and additional raw creative materials. RoboSTEM will have a designated focus on computational thinking and problem solving using electronics and engineering tools to enter the competition Robocup Junior. It is targeted towards students in year seven with a view to promoting STEM as a learning pathway in their senior years.	
7/03/2019	Full STEAM Ahead	The objective of Full STEAM Ahead , is to create portable digital technology makerspaces where students can work collaboratively to explore, create, invent and learn. The makerspace trolleys aim to complement the new NSW Science and Technology syllabus by giving students the chance to tinker with robotics, coding, and 3D printing with the desired outcome being confident students prepared for life and work in the 21st century.	
7/03/2019	Brentwood Makerspace Workshop	This funding will be used to create and resource a makerspace workshop where students participating in solar car, robotics and other extra curricular activities can work out of. This space also will be the hub for portable Micro Maker Spaces for bringing STEAM experiences into standard classes. This space will provide an environment focused on engineering and technology, allowing students to have a dedicated location, as well as the suitable material necessary to complete projects. This space will include stations for soldering, building, as well as the option of breaking out into adjoining spaces for designing and testing.	
7/03/2019	The Creation Space	This space will be a multi purpose space for use as a creative outlet for students to discover more about their learning. They will use the resources in the space through inquiry based learning to extend their understanding in all Key learning areas. ICT are embedded across all programs and will be strategically placed in the maker space to aid students in their inquiries. The Creation Space will be a place where technology and creativity collide. It will be a place where teachers can easily allow students to create and it will be a creative space for students to shine and show their talents.	
7/03/2019	PVS Fab Lab	The PVS STEAM Fab Lab will encompass the many facets of tinkering and creating. The Fab Lab will be used on an ongoing basis by whole classes, small groups, as well as by visiting experts, and for STEAM clubs. Students will be using the Fab Lab to connect learning outcomes to real world applications. The ideology behind the PVS Fab Lab is for students to tinker before, during and after Intentional learning experiences have taken place inside the classroom. We know that some of the best ideas can spring from students who have very little understanding of how they want to transform their existing knowledge into creations- and this space will enable them to do this.	
8/03/2019	Kangaroo Valley Public School Makerspsace Implementation	The objective for Kangaroo Valley Public School is to create a dedicated Makerspace that will allow hands-on experience working with emerging and advancing technologies. Schools that include 3D technologies such as 3D design software and 3D printers when establishing a Makerspace are maximising the potential for students to develop and apply STEM based skills. It will also encourage creative thinking skills through design processes and engaging in problem-based inquiry learning. Students will develop key practical skills and a repertoire of tools and processes for making. It will also encourage creative thinking skills through design processes and engaging in problem-based inquiry learning.	
8/03/2019	Dream it, Design it, Make it, Refine it	The Rooney IQ Centre will host the Launceston Church Grammar Junior Campus MakerSpace. Underpinned by the School s emphasis on units of inquiry the MakerSpace will create connections between sustainability and the emerging capacity of the Internet of Things (IoT). Integral to the process of inquiry, students develop questions that stimulate their curiosity. Through research, design, and the opportunity to collaborate, their ideas are developed. Initial equipment purchase will facilitate the create aspect of the pedagogy allowing students to make, manufacture and apply their design.	
8/03/2019	Creative Joeys	Our portable MakerSpace will enable students in the school to have access to opportunities to embrace and create with digital technologies and STEM across Kindergarten to Grade 6. Through integrating STEM into curriculum planning we aim to enhance the STEM and digital technologies content. As our aim is to purchase smaller portable resources, all resources will be stored in a communal creative space and will be easily accessed and transported to classrooms as required. All classes from Kindergarten to Grade 6 will negotiate and have access to resources to support the integration of STEM in classroom curriculum learning.	
11/03/2019	Discovering coding and robotics	: A flexible learning space will be established and used for teachers and students to be introduced to computational thinking through coding and robotics. Students will discover how computational thinking concepts are linked to and support each other, including algorithmic thinking, abstraction, evaluation and logic. These concepts will be developed and accessed through plugged and unplugged technologies.	
11/03/2019	Tinkering Trolleys	To ensure STEM is seen as a part of everyday learning and not just something that happens once a week in a Maker Space room, our school will introduce two STEM trolleys to be known as The Tinkering Trolleys. The trolleys will be moved between classrooms as needed and will include a variety of makerspace resources to support learning.	
11/03/2019	An outdoor makerspace for creativity, collaboration, critical thinking	Our students love creating what better way than to extend our current makerspace to the outdoors. With benches, flexible seating, tools and even a giant lego wall available, students will be encouraged to create at any time of the day, either as a class or in a group at their break times. The possibilities will be endless.	

12/03/2019	Bunbury Primary School Makerspace	Bunbury Primary School is a Teacher Development School in Digital technologies. TDS schools assist other schools with the implementation of the Digital and Design curriculum and the integration of STEM across Learning Areas. Our school currently doesn t have a room that can be converted into a Makerspace area therefore we are working on developing a Portable Makerspace. The Portable Makerspace we are proposing focuses on: promoting 21st Century collaboration skills, problem solving, teamwork as well as the use of critical and creative thinking and will provide the resources to enable teachers to implement this in their classroom.	
12/03/2019	Willetton STEAM Workshop: Full Steam Ahead	In 2019, Willetton Primary School will establish a permanent STEAM workshop by refitting the school s old art room. With a focus on 3D design, coding, engineering and construction, the room will be equipped with a number of purpose built, mobile, stainless steel benches and students/staff will have access to a variety of tools and resources for design projects. The room will be equipped with two 3D printers for students to explore computer aided design. All students in Years 1-6 will have access to the room for a minimum 60 minutes per week as part of the school s commitment to STEAM. The workshop will host a Before School Coding Club and Maker Space for interest students to foster a lifelong love of STEAM subjects.	
12/03/2019	Innovation Partnership Share Space	Innovation Home Base Innovation Home Base is a shared space available to the high school and regional primary schools where events around Science, Technology, Engineering, the Arts and Mathematics are hosted as part of the Innovation Partnership: Leading ICT as a teacher development school network. As a network of schools, we are dedicated to providing students access to an innovative environment where critical thinking, creativity, collaboration and communication are nurtured and imaginations can explore can run free.	
12/03/2019	Margaret River Primary School Library Maker Space	The Margaret River Primary School Library s core goal is to enable all students (approx. 800) opportunities to be active contributors to the school s motto Engage, Innovate, Inspire across integrated curriculum areas. The space will evolve to meet the interests and abilities of the students and community through the whole school approach to Inquiry learning, particularly the Global Goals of Sustainable Development. Led by the Digital Technologies specialist, the space will be used to provide opportunities for students to connect the physical and digital world using digital technology resources and interfaces to merge with students physical creations. It will focus on facilitating the key understandings of Digital Literacies, Science, Tec	
12/03/2019	STEAM Emporium - A space to make, create and innovate	Our student-driven makerspace will provide opportunities for our 450students to creatively apply their existing Scientific knowledge and understandings in relevant, awe-inspiring STEAM projects. Our makerspace will provide an engaging, authentic context for our students to work collaboratively to explore, create and innovate, a place to problem solve and create solutions. Making and tinkering are powerful learning tools that fuel engagement, creativity and curiosity. Having access to this space will provoke new ideas and our students will learn new skills that will further enhance their application of the engineering design process It will also encourage resiliency by teaching students that that failure is ok and encourage a Maker Mindset.	
12/03/2019	Geraldton PS Maker Space	Geraldton PS is focussed on 21st Century Skills, in particular, creativity and enterprise. The school has committed to a dedicated area for Maker Space combining STEM and Digital Technologies along with a dedicated Specialist Science Laboratory to provide students real life engagement opportunities to incorporate the General Capabilities and Digital Technologies curriculum. Geraldton PS is the oldest continually operating public primary school in Western Australia and its strong ands solid foundations prepare students for their futures, unlocking their creative potential using today's technology. The school will focus on forging links with local businesses to add the element of real life work to their learning across the K to 6 curriculum	
12/03/2019	Byford SC Maker Space Project Room	Assistive technologies, sustainability projects, automation and robotics are the way of the future. To engage and prepare our students for future careers we have begun the delivery of a robotics curriculum via extracurricular clubs in 2018, Powering Careers in Energy and Robotics and Astronomy elective classes in 2019. With a focus on electronics and mechatronics, we aim to provide students with the skills to design unique solutions to assist people with real world problems by designing robots to automate and perform tasks, designing electronic circuits to add additional functionality, developing familiarity with a range of micro controllers such as auduino whilst keeping sustainable design as a focus using renewable energy and materials.	
12/03/2019	Beveridge PS Maker Space	Our Maker Space will aim to give our students an otherwise impossible insight in to STEAM learning. This will include the incorporation of 3D printing design tools and hardware, as well as a robotics and coding program.	
12/03/2019	Leda DigiMaker Space	Leda Primary School aim to engage students in the design and engineering process of the Technologies curriculum by creating a digital maker space in the school library. The focus is on 3D design for a variety of creative solutions using TinkerCad software and an Ultimaker 2+ 3D printer. Students will participate in both teacher directed and personally driven projects.	
12/03/2019	Ocean Road Primary School s Mobile Maker Space	Ocean Road Primary School is committed to providing our students with 21st Century learning in every classroom every day. Our portable maker space will provide opportunities for students to tinker, collaborate, design, construct, build, communicate, fail and think critically. Students will have access to a range of tools, equipment and resources that will provide them with the opportunity to apply their STEM knowledge and use a combination of skills. Through our maker space being portable, all classes will have access to the maker space and teachers can incorporate its use into the everyday running of their classroom curriculum.	
12/03/2019	Dream it...Make it!	Kalamunda Senior High School is creating a designated Design space a maker space where students are presented with real life challenges, use skills across Science, Technology, Information Technology, Arts and Maths to arrive at solutions. Students will have access to the latest in Design Technology laser cutting, Robotics/Electronics, CAD, 3D printing etc., combined with traditional hand skills which are still vital for students to master - to create practical products that meet the needs of our changing society.	

12/03/2019	Establishing a Successful STEM Learning Environment	A maker space will be established measuring approximately 6m by 1.5m in size. Students from Kindergarten to Year 6 will participate in activities driven by student interest to increase engagement across the school. The focus will be on real world, meaningful, integrated cross-curricular activities and projects that include all of the key learning areas of the WA Curriculum. The grant will provide us with a usable, organised storage area for tools, equipment and consumables that can be readily accessed by staff for classroom use. This will allow our school to further explore the role that the Design and Digital Technologies curriculum plays in supporting problem solving and project-based learning while developing critical thinkers.	
12/03/2019	The Gwynne Park Innovation Space	Gwynne Park whole school Innovative STEAM Inspiring Maker Space is to be accessed by all students from K-6.This space is a large space that the school is in the process of putting new flooring for easy cleaning and to freshen up the space. The space will be run through an organised timetable. All teachers will have access during class plus access for after school and lunch time clubs. It will be a hub of inspiration with displays of student s creations and work. The space will be used to house existing 3D printers and robotics equipment already in use in the school. An opening day will help communicate the use of this space to our community.	
12/03/2019	Noranda Primary can Think, Create, Innovate!	At Noranda Primary school we have students who are very creative thinkers who we believe will be the creators and innovators of the future. We want to establish a dedicated maker space in the form of a Makers Lounge which will be an open space for teachers and their students to integrate making into the curriculum. It will provide an easily accessible space for them to create their work with no restrictions. The space will also be open to all students on a weekly basis during a lunch time for more unstructured making with a focus on team building, multi age collaboration and peer mentoring/instruction.	
12/03/2019	The WestTech Lab Project: A Maker Space at West Leederville PS	The WestTech Lab Project at West Leederville Primary School (WLPS) will support teachers and students in the understanding and application of the Western Australian Curriculum. We will create a maker space to provide opportunities for teachers to create engaging hands-on learning journeys for students. Our WestTech Lab will be a place for students to explore, learn, innovate and design using a range of technologies. It will be an exciting space where teachers can give students opportunities to be creative and apply their learning and understanding within the areas of STEM. Our school has a clear strategic direction to improve outcomes in all learning areas and the creation of this maker space will provide teachers the space to develop them	
12/03/2019	Joondalup Primary Early Years Maker Space	The creation of a space in the school where younger students can learn through building, construction and design.	
12/03/2019	Clifton Hills Primary School Makerspace and Coding Club	Clifton Hills Makerspace and Coding Club will be a place where students are encouraged to experiment, explore and create and to share tools, materials, knowledge and experiences. The Makerspace will be run at lunch times and after school for Year 4-6 students and will allow students to code and program Lego EV3 and Dash & Dot robots. Students will be presented with real life problems and will design innovative solutions using 3D printers and software as well as using hands on materials and tools such as timber, nails, hammers, saws, pingpong balls and Styrofoam. The Makerspace will engage students and help them develop a passion for STEM subjects.	
12/03/2019	Establishing a Makerspace with 3D Design and Printing	Our Makerspace will be utilised throughout each week and will be integrated into our regular curriculum learning program at school.All lessons will be mapped to the Western Australian and Australian curriculum STEM outcomes, with teachers accessing curriculum-aligned lesson plans, 3D modelling software and the teachers dashboard, all contained within the School Subscription. Each lesson will be a learning opportunity to further develop the critical and creative thinking skills of all students.Our students will be involved in selecting projects to design and create, to enable them to be fully invested in the process and to have a sense of ownership in the final product. Our Makerspace will also be shared with students from nearby schools.	
12/03/2019	Bencubbin Primary School Maker Space Development	Our project will involve developing an old classroom into a Maker Space that can be utilised by all our students from Kindergarten to Year 6. This space would include a cooking area, robotics section, Lego club, recycled objects area and sewing and textiles area. We would be looking to purchase some new storage and desk areas for the class, as well as a woodworking bench for manual arts tasks. Our project will involve developing an old classroom into a Maker Space that can be utilised by all our students from K-6. This space would include a cooking area, robotics section, Lego club, recycled objects area and sewing and textiles area. We would be looking to purchase some new storage and desk areas for the class, and a woodworking bench	
12/03/2019	Melville Primary School Maker Space 3D	Melville PSI has a strong emphasis on STEM. We already have a dedicated Science classroom as well as a dedicated Maker Space featuring Lego, robotics kits and craft. We plan on further development of this space and school STEM priorities with the addition 3-D printing technology. The classroom and Maker Space are used by the entire student population from years 1-6. The aim of this space, materials, and technologies involved is to give students additional skills in design, technology, innovation, and to foster interest in STEM subjects. The Maker Space aims to be a place where students are encouraged to challenge themselves, take risks and make mistakes as they experiment with design and creation while working with advanced technology.	
12/03/2019	Robotics - STEM	A maker space will be established in the Technologies room. All students from Years K to 6 will participate in lessons to learn how to code using robotics. The grant will provide us with an Ozobot 2.0 Bit Classroom Kit, Cubetto Playset - 6 Pack and suitable storage. This will allow us to integrate Ozobot into any curriculum, including STEM and beyond and Cubetto is a friendly wooden robot that will teach students the basics of computer programming through adventure and hands on play.	

12/03/2019	Dynamic Problem Solving Hub	The Dynamic Problem Solving Hub will be a creative and constructive space where students can experience awe, have their curiosity ignited and work in a collaborative way with their peers to solve problems and face challenges in preparation for their future. The makerspace will be flexible to cater for different projects and student needs. Science, Engineering, electronics, construction, coding and proto-storming will abound. The DPS Hub makerspace will be used during the whole school DT specialist programme as well as for classroom teachers as they further classroom based integrated STEM learning. The DPS Hub will be used for our extension program and for STEM club.	
12/03/2019	Melville SHS Learning Resource Centre Maker Space	The MakerSpace at Melville SHS will be the place for students to develop projects and innovations based on the philosophy of Maker Education and Project Based Learning. Students will develop skills in coding, electronics and robotics and utilise these skills to design applications and robotics. Students will be supported to participate in a variety of STEM challenges and awards.	
12/03/2019	Pearsall's STEM Maker Space	Pearsall Primary School is aiming to create a STEM-related portable maker space, providing opportunities for students to engage in hands on experiences of building and creating, learning and developing problem solving skills through the integration of Science, Technology, Engineering and Mathematics. The maker space will be used by students from Pre Primary through to Year Six, during and beyond the project.	
12/03/2019	St John s Idea Hub	The St John s Idea Hub will be a portable, technologically based Makerspace with a variety of equipment that can be used from Kindergarten through to Year 6. To fulfil this ambition, we would use the Inspiring Australia- Science Engagement Program funds to purchase construction equipment and robotics, such as BBC Microbots and Blue Bots and construction tools, for our students to use in a variety of Key Learning Areas. The resources will be varied to allow all students to engage with them, regardless of age or ability. By creating a portable MakerSpace, we will be able to allow greater access to the equipment in different areas of the school. Our MakerSpace will encourage students to be curious, critical thinkers.	
12/03/2019	Reduce Reuse Recycle	To develop a maker space that has the necessary tools and technology to be able to design, make and appraise objects constructed from items collected from verge pick ups in our area.In the space we will have the necessary tools to be able to deconstruct objects (eg. Bicycles) and to reuse the materials to construct a final working product. We have a teacher employed one day per week who will be responsibe for developing programmes with the classroom teachers to incorporate the makers space into their learning programmes. Reduce, Reuse and Recycle reinforces our vision of a sustainable school.	
12/03/2019	STEM Maker Space	Establishing a makerspace with 3D design and printing: Schools that include 3D technologies such as 3D design software and 3D printers when establishing a Makerspace are maximising the potential for students to develop and apply STEM based skills. Hands-on experience working with emerging and advancing technologies. Authentic opportunities for students to design solutions to real-world problems and ideate their entrepreneurial and innovative ideas. Fosters critical and creative thinking skills through design processes. Provides a vehicle for engaging in problem-based inquiry learning. Development of practical skills and safe practice with tool.	
12/03/2019	Mobile Maker Space	Beaconsfield Primary School is built on a hill, to improve class access to STEM resources and lessons, with limited STEM spaces available, we will create a set of mobile maker spaces, each specialised to theme. We will rotate them between classes, improving STEM access for students and staff. These spaces will take the form of carts, each specialised to meet the needs of specific kinds of lesson plan. Once established they would increase our capacity to run STEM activities by a factor of six.	
12/03/2019	The STEM Garden	This grant will be used to establish an outdoor maker space allowing children to access the Australian Design and Technology curriculum in a hands-on way, in order to solve real world problems associated with food production and land care on our school vegetable gardens and hobby farm. The maker space will be used by all classes in the school and lessons will incorporate specific teaching of digital technologies skills as well as problem solving, computational and algorithmic thinking skills and design skills.	
12/03/2019	MSPS MakerSpace	A mobile maker space designed to encourage classroom teachers to provide opportunities for their students to access and use tools and materials they do not usually have the opportunity to use in a classroom setting as well as designing and constructing models to meet a Design Technologies or integrated Science and Technologies task. The space will also provide opportunity for students to tinker with the tools and materials during lunch time.	
12/03/2019	3D Makers	We are establishing a 3D Makerspace to maximise the potential for students to develop and apply STEM based skills. Hands-on experience working with emerging and advancing technologies Authentic opportunities for students to design solutions to real-world problems and ideate their entrepreneurial and innovative ideas Fosters critical and creative thinking skills through design processes Provides a vehicle for engaging in problem-based inquiry learning Development of practical skills and safe practice with tools and equipment Allows for rapid prototyping, experimentation, iterative design and tinkering Builds students repertoire of skills, tools The space will be used daily by year levels across the school.	
12/03/2019	Applied Science Project Space	A space for students to work on collaborative projects during the Applied Science enrichment program with a focus on conversation and agritech to support the cross-curricular priority area of sustainability. Students will combine skills from different subject areas to tinker and complete hands on, real-world projects with a focus on conservation and Agritech. With the world losing available space for growing food, technology and practices must become more efficient. Knowledge of robotics and automation will be developed to create innovative solutions to problems faced in the agriculture industry. Systems to monitor weather, irrigation, soil condition and other vital statistics will be developed to deliver data to centralised systems.	

12/03/2019	Kirup Primary School Maker Space Workshop	Kirup Primary School has an exisiting shed that is not being utilised. The project is to provide some simple workbenches, hand tools, power tools and timber pieces and other consumables that students can use to create some items using a design and technology problem solving approach, often working in teams learning handskills and STEM skills along with the important social skills of communicating, sharing, turn taking and encouragement of peers. The Kirup Maker Space Shed will be used by students at the school with teacher direction but there is also scope to incorporate members of the community to to encourage some intergenerational sharing and provide an avenue for these members of the community to engage with the younger generation.	
12/03/2019	Maker Space at Dianella Heights Primary School	The Maker Space at Dianella Heights Primary School will provide budding engineers and tinkerers with the opportunity to build and create a variety of inventions throughout the school day. We would like to embed making into dedicated break times, giving students the opportunity to experiment, make and engage with a variety of equipment. Students will be able to collaboratively or independently make small and large scale projects with safe and engaging resources. Year 1-6 students will be able to brainstorm and generate ideas, build models and refine their designs. Most importantly, this project will provide opportunities for students to develop their skills in collaboration, teamwork, design, technology, innovation and entrepreneurship.	
12/03/2019	Unleashing our creativity! Inspiring, building, creating!	We endeavour to create a sustainable makerspace in which students have the opportunity to explore their personal interests, learn to use tools and equipment and develop creative projects using a variety of materials, consumables and tools. Our maker space will utilise both reusuable materials and construction materials such as lego to ensure we cater for all years levels of the school.	
12/03/2019	Virtual Scanning and image manipulation	This project is designed to set up a space where students can learn about 3D scanning by using a HP sprout device to scan and manipulate objects. The space we wish to create will consist of a HP sprout device and a 3D printer. The HP sprouts are designed to allow students to manipulate the physical and digital worlds in innovative ways with immersive technology that's built with a PC, hi-res cameras, Touch Mat and 2D and 3D scanning capabilities. The students will use the device to create virtual objects which they could later print. While doing this they will need to consider how the technology has emerged and what benefits it can have in today s world. The sprout will also be used to look at 3D exploration and coding/robotics.	
12/03/2019	Inspiring and Engaging 21st Century Learners	As per the Focus Report 2019, Edgewater PS recognizes STEM and the Technologies curriculum as a priority and within our network has recently formed a Science Hub. In support of this initiative we intend to implement a Maker Space to extend the learning of our students, teachers and community to become confident aspiring innovators. The focus is on reusing, reducing and the repurposing of recycled materials whilst preparing our students for their future careers by developing their 21st century skills through the design thinking process	
12/03/2019	Illawarra s Innovation Creation	Illawarra will create space by decommissioning our computer lab and replacing those computers with mobile devices to bring technology to the classrooms. This space will have a bright, open layout with furniture that can be easily moved to create groups and work around. There is plenty of storage space around the outside of the room to store projects that students are working on. There is plenty of building materials to facilitate creativity. Mobile devices, such as iPads and laptops can connect with robotic equipment that will also be located within the room. This will be a room that students can feel free to create within time restrictions and have the opportunity to pick up at any time in the future.	
12/03/2019	DPC Innovation Station	Dianella Primary College will create a dedicated maker space, accessible to all students across our mainstream and Intensive English Centre (IEC) classes.We aim to provide opportunities for all students to create, collaborate and innovate, with a focus on inquiry skills and finding solutions to real world problems. Using design, technology and tinkering, our maker space program will allow students to develop engineering and problem solving skills, helping them to become life long learners.	
12/03/2019	Spearwood Makerspace	Spearwood Makerspace - A Key to the Future, where learning is at the core of every decision and opportunity. A space where students come to tinker and explore, using a variety of tools and materials. A space where agency is embraced and students choose resources and design solutions whilst developing the confidence, skills and knowledge to become 21st century learners. Communication, collaboration and connections to like-minded learners is encouraged and fostered in a safe environment as students develop the tools they need for innovative thinking and entrepreneurship in a rapidly changing and technological world.	
12/03/2019	Roseworth PS STEM Hub- Makerspace and Coding Club	The program will allow Roseworth Primary School to expand on its successful Coder Dojo program Running a Maker Space will allow students to put into practice skills learnt in specialist Technology lessons in a custom designed environment. The space will be part of our existing STEM hub, but will allow the school to move beyond the teaching of digital technology skills and place an additional focus on design, problem solving and critical thinking. This will provide our students, many of whom have limited access to technology due to low socio-economic standing, the chance to develop skills in the STEM learning areas.	
12/03/2019	Make A Space for Maker-Space.	This project will aim to convert a large, empty Gardeners shed into a Maker-Space area that the whole school can access and use to further develop their engineering and construction skills for STEAM.	
12/03/2019	STEM SPACE Digital Fabrication Laboratory	At Mt St Patrick College, we are developing a makerspace with a focus on Digital Manufacturing. This space complements our traditional school workshops and provides students from Year 7 through to Year 12 with practical experience working with materials in a digital age. This will provide opportunities for our students to become familiar with the possibilities associated with 3D CAD, coding, mechatronics, laser cutting, vinyl cutting, product design and rapid prototyping through 3D printing. Besides programmed class time, students often use the makerspace during lunchtime and after school to pursue personal projects and projects from other classes.	

12/03/2019	STEAM Room	We are in the process of converting our old art room into a STEAM Room. This area will have a wide range of available supplies. These will include general art supplies; construction materials; tools and 3D printers for students to use. There will be a large range of recycled items for students to use in their projects. Our STEAM Room will be utilised by all students throughout the school from Kindy through to Year 6. All classes will have access to this area for at least one hour a week at a time that is booked to that class. This will mean that there is a dedicated space for those activities that require more room that has all the necessary materials on hand.	
12/03/2019	Joondalup Education Support Centre Maker Space Program to Promote Coll	The program will see the construction of a permanent outdoor Maker Space within the school grounds. The space will be used to compliment our existing specialist STEM program, to facilitate a lunchtime Maker Space activity zone for all students and be used by classroom teachers to further create opportunities to collaborate, problem solve and think critically throughout all areas of the curriculum. The space will be created, maintained and managed by Joondalup Education Support Centre, but will also be used by the students on Joondalup Primary School, promoting an inclusive area where students from both schools can work together to create and build.	
12/03/2019	Hollywood DREAM Lab	We are applying for the Maker Grant on behalf of Hollywood Primary School. At HPS we are lucky to have a wonderful area that we call the DREAM lab. In this room we teach Digital and Design Technologies as well as using it for whole school applications of digital and design experiences.It is our dream to create a space where children can come to create and innovate in an environment that is welcoming and supportive of their inspirations.This space is a readily available space for whole school use from Kindy to Year six.	
12/03/2019	Warwick Senior High School STEAM Maker Space	Warwick SHS seeks to create a maker space in the school s Design and Technology area where the focus is increasing on student centered inquiry. The school are committed to encouraging our students, the majority of whom come from low socioeconomic backgrounds, to engage in STEAM education and therefore increase their opportunities to develop high capabilities in STEAM-related skills. Students will be supported to try technology that they wouldn't normally get exposure to, open up their creativity through project based learning. Our Maker Space will be a place for students, as part of the curriculum and through our after school clubs, to experiment, test and cultivate new ideas, explore and master new concepts and technology, and collaborate.	
12/03/2019	The Waddington Big Ideas Hub	The Waddington Big Ideas Hub will be a dedicated creative learning space. Our aim is to get our students collaborating in groups, sharing ideas and knowledge and learning from one another. Our aim is to facilitate innovation and foster critical and creative thinking. The Waddington makerspace will be a place where our whole school community can come together to learn and develop creative projects. We hope to foster and support learning through exploration, experimentation and the use of the design process. Our hub will be used by all classes and teachers as well as our wider community for a range of activities that have a real sense of purpose and meaning. Our goals will be determined on a flexible basis driven by what is of value and relev	
12/03/2019	Lynwood SHS STEM Innovation and Engagement Project	The Maker Space room will be the centrepiece for Lynwood SHS's STEM program and will provide exciting, modern facilities for staff to teach STEM related lessons across all learning areas. With the grant we wish to further resource with STEM hydraulic kits and coding kits to broaden our STEM opportunities.	
13/03/2019	The iHub Maker Space	The iHub Maker Space is an important component of the 21st Century learning centre Unanderra Public School (UPS) calls the iHub. With a focus on student centred learning, creativity, collaboration and communication, the iHub Maker Space will join the science focused 'iLab', the information literacy and technology focused 'iLib', and the outdoor STEM learning area. Through designing, building, experimenting and making in this flexible learning environment, students will develop abilities to think both creatively and critically, to problem solve and work collaboratively, fostering inquisitiveness, intellectual flexibility, persistence and a readiness to try. It will be used as part of the iHub STEM Club; the Gifted & Talented program.	
13/03/2019	Farmer's Makers Space	Hagley is a K-6 Primary School in Northern Tasmania and it is the only Primary School in Tasmania with a fully operational farm on campus. We are creating an Agricultural Education Makers Space that will cater for all of our Kindergarten to Grade 6 classes. We have already nominated a classroom space next to our farm and are needing equipment and materials to cater for learning experiences provided for this space.	
13/03/2019	Be Curious: Imagine, Design, Create, Engineer, Innovate and Learn	The Makerspace will be a place where students will engage with open-ended engineering challenges that involves real- world design problems. They will develop solutions, fostered by their natural curiosity, their particular interests and one that combines the gathering of knowledge with divergent making. Students will be encouraged to be creative, to be innovators, to be inventors and to collaborate and communicate with each other as they refine their ideas and develop their solutions. The makerspace will be a model for engaging learning opportunities with a focus on deep probing questions and curiosity. This space will be used by: small groups of students as an extension to their in-class Project Based Learning and special interest groups.	
14/03/2019	Supporting Transdisciplinary Learning Through Making: Radford College	The project aims to support students from across the college to develop 21st century skills via STEM-related activities in all classrooms through the establishment of a portable makerspace. Maker equipment and resources will be made accessible to all classes in the school through custom designed trolleys that will be used both for transportation of equipment and as an additional work surface. The mobile makerspace trolleys will maximise the opportunities for students to develop and apply STEM-based knowledge and skills.	
14/03/2019	Creation of Maker Space	We want to create a Maker Space in our existing Lab space to promote 21st Century learning and provide enrichment for our students.	
14/03/2019	3D Printing in classroom to aid learning and for fun!	We intend to develop a maker space that will be in part funded by this grant that we are looking to grow and work in line with STEM focuses related to the primary curriculum. We have a classroom ready to begin this and will look to have this set up for the start of the 2019 school year. It will hopefully encompass lots of different technologies as it grows and will have dedicated technologies for each year group within the school.	

14/03/2019	Building and Inventing through learning and wisdom.	Our Maker space will have organised materials and equipment that allows each student to collaborate, discuss and design solutions to physical issues or problems, through experimentation, evaluation and redesign. We will provide students with the opportunities to use this space for inquiry, motivation and inspiration for their passions. They will be able to confidently design, create and test solutions to shared problems. Students will have safe and supported access to computer devices, robotics and 3D printing for programming, innovation, engineering and computational thinking. A key outcome is staff Professional Learning and Science information for parents, greater student engagement and experimentation to provide deep learning.	
14/03/2019	Expanding our Future-Focussed Learning through Design Learning	The Maker Project will develop a new STEM space that will facilitate a future-focused learning environment. The project will provide opportunity to establish a new learning area within the library, and this new zone will be for students to experiment and engage with challenging fun . The new space will allow students to have access to hands-on resources that will encourage them to think critically, challenge their creativity and create connections. The range of experiences will include tinkering with robotics, experimenting with virtual reality, and creating solutions to physical design problems by applying design thinking skills.	
14/03/2019	Academy of Futures Skills Maker Space	The Maker Space will be used to provide opportunities to activate deep learning in STEM disciplines, and develop students transdisciplinary knowledge, skills, capabilities and dispositions and to improve student achievement in STEM-related disciplines and enhance STEM study and employment pathways for all students.	
14/03/2019	Technology Maker Project	We wish to build a maker space that is portable and easy for all classes K-6 to access. Our main focus for next year is to focus on providing engaging experience for our students in Science and Technology. We believe that we will be able to achieve this with engaging and motivating technology resources. Each stage will have a different focus. One of our most exciting plans for 2019 is to implement a Science Fair where schools in our cluster will showcase a science project that they will be working on.	
15/03/2019	Making a Difference with STEM	We have formed a global partnership with an international STEM research project known as the EU MaKey Project led by researcher, Dr Greg Giannis, our students are involved in STEM for Humanity Learning in our STEM Maker Space. Students have opportunities to develop their class Big Idea in learning. These Big Ideas focus on how students learning can help others and engage them in critical and creative thinking strategies, ethical, intercultural and personal and social capabilities. Students code games for each other to play using 'Scratch'; use Makey Makey controllers to manipulate student coded Scratch games; use 3D printers, sewing machines and tools to create solutions to real problems.	
15/03/2019	Mobile Maker Module Bringing the MakerSpace to every classroom.	Instead of moving the class to the makerspace, we are moving the makerspace to the classroom. This new mobile MakerModule will allow any class access to a range of STEM equipment. The Module will be equipped with class sets of BBC Micro:bit, expansion modules, MakerSpace Craft supplies and all the possible manual tools that could be required for a K-12 STEM lesson.	
17/03/2019	Making it happen!	We are starting to embrace the Digital Technologies curriculum and embedding 21st century learning into group and class programs and want to establish a makerspace.	
18/03/2019	Innovation & Collaboration Centre- Expert in Residence	US entrepreneur and Managing Director of global Techstars Adelaide Defence accelerator program will act as a key mentor to startups as well as budding entrepreneurs over a twelve-month period in the Innovation & Collaboration Centre at UniSA. Along with supporting existing companies in the Venture Catalyst program in both the space and the main stream, our Entrepreneur in Residence will assist to support a mission to the US for the Venture Catalyst Space companies, as well as facilitating public events for the wider Adelaide startup community.	
18/03/2019	STEM@School	Wheelers Hill Primary aims to create a Maker Space that will enable us to showcase digital technology resources specifically aimed at our junior school. We will build a 21st century, flexible Maker Space that will support our junior students to develop their abilities in programming robots and designing simple physical systems.	
18/03/2019	Establishing The LPS Makerspace with 3D Design and Printing	The makerspace will include 3D technologies such as 3D design software and 3D printers that would maximise the potential for students to develop STEM skills.	
18/03/2019	The Chapman Primary P-6 'Workshop' Maker Space	Our vision for this project is to continue our current goal of increasing the teaching and learning of the subject areas of Science, Technology, Engineering, Art and Maths (STEAM) by repurpose our underutilised Arts area. Through the grant funding we will fit out the room with flexible learning furniture and purchasing a range of storage units, tools and materials. This space will provide students a place to come together to create, collaborate, make and innovate. Each class will be allocated times throughout the week where they can come to the Marker Space to engage lessons with their classroom teacher and peers. Teachers will work in a shoulder to shoulder, peer coaching model with our current specialised STEAM teacher.	
18/03/2019	3D Garden Sprinkler and Irrigation Installation	The Makerspace to be established will allow students in Years 5 and 6, on a weekly basis, to design and monitor a watering system for our school garden. To do this student will 3D print their own sprinklers and monitor the soil moisture content to determine if the garden needs watering. We intend to use solenoids to turn the sprinklers on and off with Microbits.	
19/03/2019	St Aloysius STEM - Future skills for students	St Aloysius will establish a contemporary maker space where students can engage in rich learning activities that focus on developing future skills such as creativity, collaboration, critical thinking, cooperation and communication. Students will apply the engineering process to plan, create and refine solutions to real life meaningful problems from within their community. Our makerspace will provide an environment where students can utilise digital technologies and engage with experts both locally and globally. Our Maker space will be a hands on learning environment where students are allowed to fail and learn through that experience. Students will utilise resources such as 3D printers, Lego robotics, Makey Makeys, Drones and coding.	

19/03/2019	St Mary s Portable Engineering Maker Space	St Mary s portable Engineering Maker space will allow all classrooms to become Engineering maker spaces providing students with hands on creative experiences in transforming ideas into concrete creative solutions. This project will build teacher confidence and capacity to incorporate electronics, engineering and hands on learning across the curriculum.	
19/03/2019	Girls in Maker Space	Shelford's Maker Space will provide technology and materials that will enable students from Year 3 to Year 8 to design and implement collaborative projects. The proposed Maker Space will encourage the engagement of students in STEM related activities.	
19/03/2019	Henty Public School Maker Space Place	The school has an existing art room that is currently being transformed into a multi-purpose maker space. We have purchased new technology including computers, spheros, Lego EV3 Mindstorm kits and microbits and some organisation equipment such as benches, trolleys and storage tubs. We are now working on the maker space component. We would like to purchase consumables (such as glue, foil, matches, scissors, batteries, string, cardboard, wire, pliers, paperclips, duct tape, sticky tape, plastic, wheels, plastic or metal piping, electronic and solar kits) and add some additional workbenches with shelving to store ongoing projects. Our aim is that students can experience high quality STEM experiences with appropriate resources.	
19/03/2019	PLC Armidale s Rural Girls Innovation Space	We seek to engage our girls in immersive learning experiences within our innovation (maker) space. They will learn to use emerging high tech equipment such as a laser cutter, 3D printer and robotics equipment. The girls will be encouraged to engage in project based learning to come up with innovative solutions to problems that matter.	
19/03/2019	The Whitford Catholic maker space will be called The Ideas Factory.	The Ideas Factory gives students in our school a chance to participate in activities that cannot always be fulfilled inside their normal classroom. The activities are very hands on and allow the students to excel and display their talents in subject areas such as engineering, sewing, cooking, robotics and graphic design. The activities are led by dedicated teachers who give up their time to facilitate the classes and allows them to see their students excel in different disciplines and use their thinking and problem-solving skills. It is hoped that by exposing the children to these types of varied learning areas that they will find a new passion and grow in confidence knowing that they have gifts and talents to nurture in the future.	
19/03/2019	Collaborative Technologies for STEM Maker Space at Calvary	The purpose/aim of the project is to supply the Maker Space with technology in the form of a Prowise which would allow learners to collaborate and share their thinking simply and quickly. This also allows for the transfer of ideas to other places within the school connecting with other students not physically located in the Maker Space along providing authentic opportunities for ongoing collaborations and feedback relating to their project - based learning experiences.	
19/03/2019	KDPS Makerspace Project	Our Makerspace will be used as a technology hub for the whole school to use during STEM lessons, class time and for lunch time programs. It will have a strong Environmental Science focus with many reclaimed and recycled materials for students to use to tinker, create, build and discover.	
19/03/2019	Tech Inquiry Hub	Leppington Public Schools maker space will be purpose built. The maker space will serve as an open space that provides a safe area for students to use problem solving, creative and critical thinking and entrepreneurial thinking. The space will have different hands on activity areas for students to work collaboratively creating a sense of achievement whilst developing their skills . The areas will include a coding and robotics area, electronics area, an animation area, a lego construction and tinkering area. Each class from Early Stage 1 to Stage 3 will be able to visit the maker space at least once a week.	
19/03/2019	Robotics Rumpus Room	The creation of a space where students can build, experiment, test and practice coding robots. This space will allow students to collaborate and problem solve, with a focus at the upper year levels on the establishment of a continuous coding program at the school and continued participation in the annual Robocup Junior NT event, through the purchase of EV3 robots. At the lower year levels the maker space will utilise WeDo 2.0 as a way to not only expose students to coding and STEM- based projects but also as a means to give them the skills necessary to participate more fully when they reach the upper levels at school. It is also envisaged that the maker space will be utilised to build resources that will add to these projects.	
19/03/2019	Year 9 Envision: Engineering Maker Space	In 2019, Strathcona will develop a Maker space in our Year 9 campus. This flexible creation space will be used in the Envision program, building on our strategic vision being courageous and creative in thinking, learning and research. Students will be given authentic opportunities to use 21st Century skills including critical and creative thinking, entrepreneurship, collaborative problem-solving and independent thinking. The grant will be used to add laser cutting capabilities to this space, to allow students to prototype and create real world solutions in a variety of materials, while developing CAD skills. Lasercutting is a natural bridge between the worlds of Science and Design Thinking and will be a major component of Envision.	
19/03/2019	St Thomas More's STEM Space	This will be a maker space for students from Prep to Grade 6 at St Thomas More's that will enable them to learn to code with instant visible result through the use of robots such as Sphero and OzBot.	
19/03/2019	MIT Makerspace (Moulden Inquiry and Technology MakerSpace)	To develop the 21st Century skills for our students. Developing these critical skills through hands on inquiry learning in a dedicated space with access to technology and materials that they are able to access dur the low socio economic community. Allowing them to develop skills to enter their community with skills that will allow them to contribute the society in which they will be future leader.	
19/03/2019	Imagineering Our Future	This maker space will develop curiosity through Inventing-the-future projects, in areas such as aerospace and interplanetary exploration, emergency and rescue, robotics and automation.	

20/03/2019	Maker space at Neville Bonner Primary - Building 21st Century Skills	The Neville Bonner Primary School maker space project adds capability to an existing, under resourced maker space by providing equipment for use in design and construction. The school aims to develop student design thinking capability through authentic learning experiences. It will achieve this through the purchase of a 3D printer and 12 months of consumables for the senior primary students and construction tools for the junior primary students. This project will allow our students to engage in 21st century learning activities and build vital skills for their future. The children will develop their critical and creative thinking skills, as well as building teamwork and collaboration with other students and the wider community.	
20/03/2019	Studio 2759	Studio 2759 will be a space that all students from Kindergarten to Year 6 at St Clair Public School can access in exciting and creative ways. A space that is engaging where innovative technology will add a new and exciting dimension to students learning and lessons. In this space students will be able to use the green screen, iPads, or the 360 camera to discuss, evaluate or reflect on their learning using their imagination and digital skills. Pupils can share a story or get into character using a background setting of their choice, creating amazing student-driven, directed and edited videos. The space will be a dedicated area where St Clair Public School will infuse STEM education into the school and wider community.	
20/03/2019	Pomonal Primary School STEM (Science/ Technology/ Engineering and Math	The Pomonal Primary School Maker Space will be created in an existing unutilised shed that will become a major learning area, focusing on STEM activities. Structured and open-ended enquiry based learning will be used to foster creativity, imagination and entrepreneurial thinking. Structured STEM projects will be conducted for all students at Pomonal Primary through harnessing local community expertise for involvement across the Sciences and Arts. It will also enhance our financial literacy program, which aims to develop entrepreneurial enterprise skills by creating items to sell at the local Pomonal market. Students will be able to access aspects of the Maker Space during unstructured learning time to explore and develop scientifically.	
21/03/2019	Research, Design, Innovate	Transforming a traditional library into a multi-function learning space for students to research, design and innovate.	
21/03/2019	St Therese's Catholic School- Collaborative portable Maker Space	The project aims to create mobile Maker Space resource kits that are portable between two smaller Primary schools in Southern Tasmania. Utilising our proximity to each other to collaborate in planning, instruction and resource management, we will facilitate the use of a range of resources that would not otherwise be possible in our schools alone. We wish to deepen the students understanding of STEM and critical and creative thinking, through creating solutions on digital platforms.	
21/03/2019	STEM Aerospace Technologies Access Program- regional & remote students	Students at Trinity Anglican School will be provided an opportunity to access award winning STEM program aligned to aerospace and rocketry industry. Coinciding with the 2019 50th International Anniversary Celebration of the First Moon Landing, over 300 prep to year 6 students will undertake "It's Rocket Science" advanced STEM curriculum involving advanced rocket design solutions and testing challenges. Students will be inspired, through practical and theory-based application, to consider the future of aerospace science and the technological achievements being made possible through the 21st century. This STEM based program is approved for the Australian Curriculum and provides a fun, hands-on learning environment from industry experts.	
21/03/2019	TastroFest - Tasmania's Astronomy Festival	TastroFest is the largest astronomy festival in Australia and is held annually in North West Tasmania. In 2019, we will be celebrating across the world as we mark the 50th anniversary of one of the greatest achievements in history, the moon landing. This year, we have partnered with Orbital Projects South Pacific as they stream LIVE into TastroFest Q&A sessions from NASA astronauts and staff (both past and present) celebrating in Houston. Patrons will be able to ask questions directly and to hear from those who were part of the space program at that time. They will learn how it was, and how it is for today's astronauts who were inspired by these events and what training they go through in order to be a part of the space program.	
22/03/2019	Maker Space and STEAM Club	To expand STEAM at St Anthony's Catholic School we would like to develop a permanent Maker Space. A designated Maker Space will allow students to create design solutions and help students and teachers be successful in achieving the new Digital Technologies Curriculum. It would also provide students with the space and resources needed to complete a range of electronic and unplugged projects. The Maker Space will house robotics, science equipment and a range of craft supplies as well as work stations that will create an environment for success for our students. The maker space would also support our after school STEAM Club, which develops student s STEAM knowledge and provides students with the opportunity to apply newly formed understanding.	
25/03/2019	3D Technologies. Creating a makerspace utilising 3D technologies to ma	Since the recent opening of our refurbished school site we have seen the creation of re-imagined learning spaces. Our stage three classes will begin working in a middle-school model from 2019, with teachers allocated to specific subjects. To complement our new middle-school model, as well as coinciding with the implementation of the new Science and Technology syllabus, we will establish a makerspace utilising 3D technologies, including 3D design software and 3D printers, to maximise the potential for students to foster creativity and develop and apply STEM based skills. Students will have hands-on experiences working with emerging and advancing technologies. They will be provided with authentic opportunities to design solutions to real-worl	
25/03/2019	Killara Public School Makerspace	The Makerspace is part of the Killara Public School's strategic direction, 'Future-focused learning' which is supported by ongoing teacher professional learning to maintain and extend teachers' skills is using technology resources and creating design tasks for students. Students in all classes in the school will have access to the makerspace with a focus on K-2 students as their classrooms are not built in the flexible learning design.	

25/03/2019	Future Focused Learning Project	Our Future Focused learning vision is to extend our current key focus areas of Creativity, Collaboration, Communication, Critical Thinking, Reflection and Technology through the development of a Makerspace. This is particularly prevalent with the 2019 implementation of the Digital Technologies syllabus. The conversion of an annex / library space to create a Future Focused Learning Nexus would allow the development of collaborative learning environment that would immerse students in rich STEM based learning tasks, further enhancing their access to the latest technologies, whilst developing their entrepreneurial skills through learning based around creative design and innovation.	
25/03/2019	Joey's Makery	Joey s Makery will begin as an exploratory space where learning and invention can take place. Our space is in the media and arts hub of the school and gives the explorers an opportunity to brainstorm, engage, problem solve and create. Initially the Joey s Makery will be open to students of all ages during lunch breaks and before school progressing to a timetable space for classes to utilise. Our space will empower today's learners with skills to lead them to be self-directed rigourous and critical thinkers of the future.	
26/03/2019	CRESP - Creating and Responding	The grant would enable our students to be global, lifelong 21st century learners. It is an opportunity to stimulate best practice and provide high levels of engagement. We would like to upgrade our current facility, equipment and kits to align with our school s focus on STEAM. The original purpose for this space was inspired by a parent Allan Cresp, who recognised technology was the future for our students. We envision students working collaboratively, being problem solvers and putting their learning into action.The space will be used by students during their speciality rotation time and also be available for integrated subjects, aligning with the outcomes of the Australian Curriculum.	
26/03/2019	The Hub a collaborative, innovative and creative learning space	This year, the school created a collaborative learning space (The Hub). The Hub is a place where students have the opportunity to create, collaborate, problem-solve, and think critically. The area currently has a Lego wall, desk top computers, an interactive television and a variety of robotics. It needs furniture that is suitable for its purpose (mobile and multi-functional). The Hub will be used as a Maker Space for the Technologies, Science and other learning areas. Time in The Hub is scheduled on a weekly basis for all year levels, where learning will explicitly focus on STEM type activities.	
26/03/2019	OLPS MakerSpace Radical Robots and Real World learning	The OLPS Makerspace will centre around the use of a class set of Robots (Sphero Bolts). Students will have the opportunity to experiment with open-ended programming challenges. The maker-centred projects will involve creating imaginative solutions to real world problems (eg building bridges for Sphero to cross, ramp and balloon challenges, mazes, water-based challenges). At the core of the maker space is student agency, teamwork, persistence and creativity.	
27/03/2019	Maker Magicians	Gillieston s maker space is future focused with the use of coding and robotics while still implementing general problem solving tasks that are very hands on. Through the implementation of a distributed maker space all teachers and students at Gillieston Public School will have the opportunity to flex their problem solving muscles and at a time that is convenient to them. Students who are easily disengaged will be given the opportunity to use the maker space as a way to give deeper meaning to their education which will help to foster in them a more positive attitude towards their education.	
27/03/2019	3D Maker Space	The 3D Maker Space will be permanently located in our school and initially focused on providing exposure to STEM. It will hold a 3Dcomponent for students to gain important exposure to 3D printers. The intention is a whole school approach, being to provide equitable access to all year groups through weekly dedicated, timetabled lessons with lead teacher and classroom teachers until classroom teachers feel confident to complete alone with their class. The community will also be provided access through an options group run weekly by local community members who are trained in the 3D Maker Space to deliver small group lessons. Connections will also be made to the local Bayview Secondary college to enable extension links.	
28/03/2019	Creating Innovative Thinkers	The maker space will allow students to develop critical thinking skills and innovative ideas, and turn them into reality through STEM practices and technologies.	
28/03/2019	Richardson Primary School STEAM Project	We wish to create a makerspace that will provide students with authentic opportunities to work with and apply skills they have learnt through Design and Digital Technologies, Mathematics, Science and the Arts. This will involve the acquisition of a 3D printer to enable students to see their computer and arts-based designs come to life in 3D representations. The space began as a classroom but has recently been used as an inquiry room where students inquire, investigate, demonstrate and display their learning. We would like to embrace this space and interest and extend it to a wider school program that will be accessible to all teachers and used from preschool to year 6. Our intention of this program is to promote STEAM thinking.	
29/03/2019	Mentoring & workshops for Transformative Technology startups	Well known north Queensland startup expert from Cairns start-up hub, theSPACE, Troy Haines will take an outgoing external secondment to the Transformative Technology Lab (TTL) based in San Francisco to receive specialist Transformative Technology (TT) startup mentoring from key personnel. Transformative Technology start-ups are those whose technology can facilitate mental health, emotional well-being and enhanced human thriving. The TTL is based in the United States and is the only one of its kind in the world. Vital information, introductions, knowledge, techniques, skills and other advanced learnings will be transferred directly to at least 16 startups within the Australian market through a series of 9 monthly workshops & mentoring.	
29/03/2019	City Libraries Science Spectacular	Following on from the success of 2018 City Libraries Science Spectacular, we hope to offer another week-long program of engaging science, engineering and technology workshops and events for all ages. The events and activities will be both hands-on and informative and will allow the wider Gold Coast community to access and experience innovative and cutting edge science and technologies in a fun and informal learning space. The Science Spectacular program will inspire, educate and inform with a combination of shows, presentations and workshops from professional science and technology speakers, educators and performers and will include 2 special Luminary Lectures featuring high-profile scientists or innovators.	

29/03/2019	Science Open Season	Seven days of science-based activities for the general public (10-18 August). The program includes: Big Day of Science expo (everyday science taking place in the regions businesses, Museum and University) and Night@Museum#1 on Saturday for all ages; SundayScience4Kids (targeting young families); 'Mission Space' education centre, Planetarium and Public talks (Monday-Friday); and Night@Museum#2 on Friday night. Throughout the week the public can join the Crazy Scientist (educator), meet our experts at their PODS (Professionals Out Demonstrating Science), and construct their own lunar vehicle. School children will be able to participate alongside the public in activities that integrate the national schools theme and the curriculum.	
29/03/2019	Coffee In Space	This project uses the light-hearted premise of making coffee in space to engage the public in the serious science and technology around space travel. The project s three linked activities emphasise regional engagement and Science as a Human Endeavour. In a fishbowl-style public forum, research scientists will roleplay how they would roast, grind and extract quality coffee in the extremes of space. In a hands-on activity the public, tastes and rates coffee with systematically varying particle size distributions, viewed through provided microscopes. Public lectures by scientists summarises and extends the science behind coffee. In smaller regional venues such as Mildura and Shepparton, these activities will be combined into a single event.	
29/03/2019	The Universe in 4 Dimensions - an Astronomy/Arts collaborative	ASTRO 3D Outreach team and Astronomers, who research the Universe from soon after the Big Bang to the present-day, will work with dance artists Liz Lea and Eric Avery, photographer Jen Brown, and animator James Josephides to create a 4-dimensional trip through space and time, exploring the key concepts of ASTRO 3D research - the origin of the Ionised Universe and the Origin of the Periodic Table. Our aim is to place the body in space while seeking connections with cultural histories including the Dreamtime and recent discoveries being made by our astronomers.	
1/04/2019	Taylor Primary Maker Space	A dedicated Maker Space available for all teachers and students to access for STEM sessions and as a lunch time club. The resources provided will allow students to explore STEM creatively and further their understandings of STEM.	
1/04/2019	STEM Space	We will set up a Makerspace that fosters the development of STEM skills with hands on, engaging and authentic experiences. Using an Inquiry model, students will be encouraged to solve design, technology and engineering problems that also align with scientific knowledge focus areas.	
1/04/2019	Fair Dinkum Dinosaurs	Our maker space will allow students to conceptualize Australia s rich paleontological history using 3D printing and design modelling.	
1/04/2019	Design Hub	Hills College Design Hub focuses on developing skills, creativity and thinking through the STEM disciplines. Grasping the existing enthusiasm of students through exposure in current lunchtime activities, the need for a more permanent program has become evident. Through emersion in design, technology and innovation activities, entrepreneurship in STEM and further future learning avenues will be encouraged The Design Hub has an allocated classroom beginning 2019 and requires funding for its setup and to encourage future growth. We aspire to open the Design Hub every lunch time for students to immerse themselves in creativity and design. It is also planned that classes will be timetabled to utilise the space for developing STEM knowledge	
1/04/2019	Small Steps & Giant Leaps - Learning from the Moon	Geelong Gallery will present a major exhibition titled The Moon to celebrate the 50th anniversary of the first moon landing on 20 July 1969 and coinciding with National Science Week. A dynamic and engaging suite of education and public programs will accompany The Moon, informed by Earth and Space Sciences, a major strand of the Victorian Curriculum. A mini space theatrette, pop-up planetarium and informative educational activities will provide unique opportunities to engage students, and connect people of all ages to this momentous celebration during National Science Week.	
1/04/2019	Launch To The Future! A STEM Story	Launch To The Future! A STEM Story; is an exciting theatrical performance-based education program exploring and celebrating National Science Week and the 2019 Schools Theme: Destination Moon: more missions, more science . Launch To The Future combines high energy sketch comedy and improvisation to entertain, inspire and educate audiences through a fun and interactive live experience. Performed by professional actor/educators, the fact-filled program inspires audiences with the astonishing discoveries, innovations and solutions of space science and how these impact our daily lives as well as drive our future. Free general public performances will tour into major venues across VIC, NSW, ACT, QLD, SA & WA as well as to schools in each region.	
1/04/2019	Maker Exhibition	The project will showcase the exciting (and oft hidden) STEAM activities that are occurring in north west Tasmania. Hosted in the region s City of Makers , Burnie, this event will provide a one day extravaganza that promotes the breadth of local skills within the STEAM arena, ranging from our largescale engineering and industrial history to our digital future. The event will showcase the innovation and skill diversity within local industries, schools, community groups and individuals. This will be a whole of community event with a fun and inclusive vibe that will also feature local musicians and food producers. The key project aim is to raise awareness of STEAM activities and to encourage our future workforce to engage in this space.	
1/04/2019	The Science of Star Wars and Sex in Space at GAMMA.CON	Science Performer extraordinaire David Cannell will be in the GAMMA.CON 2019 program wowing audiences with shows to amaze and engage all ages. The Science of Star Wars explores the science shown in the films and how they compare to reality, he takes a look at what evolution may be like in the Star Wars universe and gives theory on how a lightsaber may be built. Then during GAMMA@Night David explores the very probing question of Sex in Space: Has anyone ever had sex in space? Is it even possible? What about in free fall? David explores the physics, biology and Hollywood depictions of Sex in Space with an open mind a good dash of humour.	

2/04/2019	Ryan Catholic College Maker Lounge	We aim to establish an open makerspace for students and teachers to encourage the integration of practical skills, creativity and entrepreneurial thinking into the curriculum. The space will allow for innovation and deeper learning exploration. One of the focuses will be the integration of different subjects providing the opportunity for teachers to collaborate across disciplines so that students are able to make connections, for example STEM related activities across subjects. An after-school Maker Club will be established where students will be encouraged to explore their creativity, problem-solving and innovation. This will develop student s resilience, ability to adapt and respond to changes brought about by STEM.	
2/04/2019	FutureMaker Space	Brigidine plans to establish a space that students may work on technology based projects, in their own time. These projects will include technology/coding kits, robotics projects from the Robotics Club, 3D modelling/printing, Illustrator/design for the Laser cutter, astrophotography processing etc. The grant will help provide students with; a safe space, teacher expertise and access to specialist equipment that will allow the students to explore their technological creativity, without the pressure of a curriculum, assessment or time constraint.	
2/04/2019	Kooringal PS Gardening Club	Kooringal PS Garden Maker Space will be equipped to facilitate hands-on learning about gardening and food cycles across the whole school while students are actively engaged in the STEAM design process. Students will design gardening areas and structures, plant and cultivate the vegetable gardens, grow and sell plants for continual upkeep and look after plants and garden beds throughout the school. The Gardening Club will run initially during lunch time with the view to be integrated into class, supporting and extending syllabus content.	
4/04/2019	RCL Scale-Ups - supporting entrepreneurs to scale businesses globally	ACS, Australia's leading professional ICT association with River City Labs (RCL) Scale-Ups seeks mid-late stage startups to join our accelerator in the heart of the business/tech area of Barangaroo. With access to a network of 45,000 tech professionals across industry, government, research organisations and education institutions in Australia and abroad, Founders will undertake a structured program with our partners Founders Space in San Francisco and RCL. The focus is on developing business maturity through our extensive networks in Australia and abroad. Our goal is to create value for founders, to help them develop unique commercial export products to go to market and to retain highly technical jobs and skills in the Australian economy.	
4/04/2019	Design it and make it ! A place to explore, design, create and solve.	RMSC is a large multi campus school. Two Da Vinci laboratories on both Girls Campus and the Co Educational Campus will be repurposed and developed into active maker spaces . These spaces would provide guided problem solving, support thinking innovation, technical and creative skill development. The spaces will encourage sustainable practices such as recycling, redesign and repurposing of materials. There are opportunities to support the development of IBMYP Personal Projects and year 12 research Projects. It is intended that the spaces be available to a groups of students at lunch time, each room led by a dedicated and skilled teacher. The Spaces will also provide a hub for additional PD for STEM teachers wanting to expand technology skills	
9/04/2019	iLeap into Coding and Robotics	Our maker space is a place where students can gather to explore, create, invent using a variety of materials and tools. This is a multipurpose permanent area that caters for Making exploratory classes, robotics teams can build here, electronics and coding classes can take place. It also serves as an open space for students and teachers to integrate coding into their curriculum and provide a safe dedicated space to design their original works.	
9/05/2019	Introduction of STEM into Sacred Heart Primary School	Sacred Heart Primary will establish a designated maker space withinour school. Robotics equipment will be purchased with the funding and will be permanently set up in this space alongside the other digital technology the school has (Laptops, iPads, Chromebooks). This space will become one where students can go to investigate and inquire into the world of technology and explore how it works. All students within the school will be engaged to participate in whole class, small group and a buddy class strategy. A teacher will be assigned to the area to ensure things run smoothly and all students in the school get the opportunity to participate. This funding will help Sacred Heart Primary to address the Digital Technologies curriculum.	
21/05/2019	First Nations Language and Tech Fostering Start-up Opportunities	90% of Indigenous Languages in Australia, including Noongar, are critically endangered. iBooks Camp 2019 responds to this critical need for cultural preservation and brings young Indigenous people together with Noongar Elders, Apple Digital Learning Specialists and Maker + Co to connect to culture and explore the creation and commercialisation of digital products and cultural enterprises. Maker + Co will support young Indigenous creatives and entrepreneurs in creating and sharing digital content and accessing incubation and pre accelerator programs delivered in partnership with Spacecubed in October 2019. A successful project can be scaled, adapted and provided to other first nation peoples to preserve culture create opportunities.	
4/06/2019	Redesign the restaurant space to align with market positioning	'A Business Growth Grant has been awarded to undertake strategic business activities'	
6/06/2019	Global FinTech expert for 2019 SBC FinTech Melbourne	Startupbootcamp FinTech is a globally renowned mentor-driven accelerator program that seeks to provide support for startups from across the globe working in FinTech. This support is given not only through seed funding, but through office space, access to technology, guidance on pitching and most importantly access to over 100 industry-expert mentors who will provide unique advice and help to the start-ups and their concepts. This program not only helps shape future FinTech trends but adds to the growing ecosystem of startups in Melbourne. The Global FinTech Expert is world renowned and will provide global best practice, workshops, mentoring and support to the startups on the 3 month program & local startup and broader FinTech community.	
14/06/2019	Green Frog System's Smart City Public Solar Lighting Project	Green Frog Systems has developed a high quality modular smart solar lighting platform for high reliability applications, typically targeted at public spaces. This technology will provide controlled longer life, brighter solar lighting at competitive prices for Government, Councils and Mining. Entrepreneurs' Programme commercialisation support will be used to help Green Frog Systems commercialise the product in Australia and in target export markets such as the USA and the Middle East, achieving significant export revenues for the company and the Australian economy.	

18/06/2019	Integrated CS-UAV, Hyperspectral Imaging and Gas Detection to Detect Biosecurity Threats	A Confined Space Unmanned Aerial Vehicle (CS-UAV) will be designed to be capable of automatic flight in industrial environments where other drones fail to operate. It will be specifically adapted to solve the BRII challenge. It will use unique CS-UAV flight platform paired with hyperspectral cameras, gas sensors and integrated artificial intelligence.	
19/06/2019	Signal and Data Transport - Bridging Activities	The SaDT consortium has been officially dissolved following the completion of CDR. There are still a number of ongoing pieces for work to ensure appropriate readiness going into the construction phase. AARNet is proposing to continue working the 4 areas covered by the SaDT Infrastructure Australia. - CSP-SDP trials of protocols, burst rate congestion where line rates change and NManager integration. - SKA-Deliv will build on the intercontinental and international transfer trials leveraging new cable systems. - NSDN readiness to support early construction and other Enterprise functions including IPv4 and IPv6 address space planning. - Supporting Infra Australia consortium for initial fibre construction and existing network integration.	
27/06/2019	Innovative Vehicle Canopy and Storage System	TJM 4x4 Equipped is producing a highly innovative vehicle canopy platform that is uniquely multi-functional. The aim of the project is to offer ute owners a canopy solution that suits a variety of uses across the trade and recreational spaces, in ways that are not available in the current aftermarket canopy sector.	
27/06/2019	AgTech and Assistive Tech Incubator Program (AT_Incubator)	Community Lifestyle Support (CLS) has built one of Australia s bespoke Makerspaces. Specialising in Assistive Tech, CLS plans to grow its AT_Makerspace through the AT_Incubator Startup Program and addition of AgTech as a second niche. The AT_Makerspace is an advanced hardware ideation & prototyping facility that provides manufacturing equipment, technical expertise, and staffing to promote education, collaboration, and deliver unique solutions. The Entrepreneur in Residence (EIR) will facilitate the transition toward the AT_Incubator by delivering 6 months of startup focused programming around AgTech and Assistive Tech niches. The EIR will spark innovation, drive commercialisation of concepts, and help attract interstate & foreign startups.	
15/08/2019	Sourdough - Start Up Hub	The Expert in Residence, Kylee Ingram is a entrepreneur and key stakeholder in the region with broad experience in the startup space in both Australia and overseas. She will provide entrepreneurial education and will be developing and delivering the IP for ideation, incubator and accelerator programs across the Northern Rivers region. She will be engaging directly with startups during the ideation stage though coaching and mentoring activities as well as providing ongoing mentoring support to existing incubators in the region.	
24/09/2019	SmartSat CRC Ltd	The SmartSat CRC will foster the creation of next generation space-technologies and make Australia more competitive in the global space economy by supporting the next wave of growth in critical industries including agriculture, transport, logistics, communications and mining, generating new high-tech jobs and strengthening national defence and security.	
24/09/2019	LoopLearn automated student attendance commercialisation	LoopLearn has developed an innovative product for the Kindergarten to Year 12 education market, both in Australia and globally. This technology automates the existing roll marking process in schools using machine vision technology. Small, unobtrusive LoopLearn Sensors are easily installed in learning spaces and identify which students are present, replacing the manual roll marking process. This relieves the administration burden on school staff and helps them ensure all students are safe. Accelerating Commercialisation support will be used to help LoopLearn complete trials and commercialise this product, creating job opportunities in the Melbourne head office and across Australia, producing a valuable export product.	
30/10/2019	World Conrad Challenge Summit, Kennedy Space Centre	World Conrad Challenge Summit, Kennedy Space Centre	
31/10/2019	Swan Christian College - US STEM Tour	Swan Christian Education Association will send 20 students from 3 schools on a US STEM Tour designed to give students an opportunity to experience STEM in the real world, highlighting potential study and career options. The Tour will visit New York, Boston and Orlando to attend the American Museum of Natural History, Statue of Liberty and 9/11 Memorial as well as Harvard and MIT. The students will complete 2 Youth Education Series programs at Disney World and Kennedy Space Centre International Camp.	
12/11/2019	Space Camp USA	Newdegate PS is sending students to Space Camp USA where they will complete an immersive educational program which includes activities such as participating in mission simulations, rocket construction, space history lessons, science experiments, multi access trainer activities and flight simulations. They will also visit the Northrup Grumman facility and the California Science Centre.	
14/11/2019	Space Camp	Students will attend Space Camp in the USA to learn more about space exploration and develop deeper understanding of science concepts through the lens of Space. Visits to various space based organisations and centres will foster students' interest, confidence and aspirations in STEM and further enhance the appeal of current STEM programs at Emanuel School.	
14/11/2019	STEM Study Tour	Fort Street High School will take a group of students (30) to the United States of America to participate in a range of STEM activities, visiting NASA, Space Camp and IT organisations in Silicon Valley. This STEM Study tour will both support classroom learning being undertaken and act as professional learning for our teachers to refresh their knowledge and skills with industry best practice.	
20/11/2019	Athlete's AI	Athlete's AI is focussed on delivering real-time video analytics using smartphones into the hand of all athletes. This technology will help athletes improve their performance faster and enable amateurs access to the same technology as the elite level. Accelerating Commercialisation support will be used to help Athlete's AI commercialise this product across three sports by 2025 and grow Australia's capability in the artificial intelligence and computer vision space.	
20/11/2019	Analysis of passive radio frequency signal monitoring in space situational awareness	Innovation Connections promotes collaboration between small and medium sized Australian businesses and the research sector to develop new ideas with commercial potential.	

20/11/2019	Country Kids Rocket to Higher Things	This project is intended to get our students to lift their eyes skywards and to aim for the stars! We want to take students from Wagga Wagga's most disadvantaged area to see that education and in particular Science, STEM and Mathematics are life giving and viable pathways to a fulfilling and enriching life. While this project aims to take 4-6 children to an International Space Camp, the journey will be documented in photos, video and electronic blog form so that all of the 300 students at Holy Trinity can share in the dream of achieving higher things. The students and their chaperone commit to speaking at other disadvantaged schools about their engagement in Science, STEM and Mathematics and the opportunities that has opened up for them.	
25/11/2019	First Lego League	The team is going to the world festival in Houston America to compete. In the Robot Game, your team will: • Identify Missions to solve. • Design, build and program a LEGO Robot to complete the Missions. • Test and refine your program and design. Your Robot will have to navigate, capture, transport, activate, or deliver objects. You and your Robot will only have 2½ minutes to complete as many Missions as possible. So, be creative! In the Innovation Project, your team will: • Identify a problem with a building or public space in your community. • Design a solution. • Share your solution with others and then refine it.	
13/12/2019	Startup Growth, Fundraising & Pitching expert for Enterprize Tasmania	Enterprize Tasmania is Tasmania s premier startup organisation supporting local startups with innovation hubs in Hobart and Launceston. The Hubs provide workspace, offices, support, mentors and formal support programs. The hubs have seen a dramatic increase in use and attendance at events with over 100% increase in numbers over the last 12 months. The International Startup Growth, Fundraising and Pitching expert will provide global best practice, workshops, mentoring, and support to both Enterprize startups & from the wider Tasmanian startup community over a 4-month period. This will include train the trainer session for Enterprize staff and mentors.	
16/12/2019	Tracking Australia's Future in Space	The University of Tasmania has a long history of tracking spacecraft for both scientific and commercial missions. We will leverage existing expertise, infrastructure and geographic location to enhance Australia's sovereign capability in spacecraft tracking and develop new capabilities in space situational awareness. These new and expanded capabilities will assist in the development of Australia's Space Industry and provide new opportunities for a broad range of SME within Tasmania and nationally.	
17/01/2020	Innovation & Collaboration Centre (ICC) Whyalla: a hub for regional SA	Grant funding will be used to create a new regional Innovation & Collaboration Centre in Whyalla (ICC Whyalla). This hub will be a node of the Adelaide based ICC a successful tripartite model between the University of SA (UniSA), the State Government of SA and industry partners. ICC Whyalla will create a dynamic pathway for innovative start-ups to reach their global capacity by providing a dedicate coworking space and program of support, combined with fast gigabit network speeds and injecting expert mentors. Based on the Adelaide experience, the Whyalla business community will benefit from a suite of training forums led by professionals with a track record of driving a local innovation into an international market.	
12/02/2020	Vertiia: Electric Vertical Take-Off and Landing Passenger Aircraft	Electric vertical take-off and landing (eVTOL) aircraft will provide a paradigm shift in aeromedical evacuations, commercial and passenger transport, and logistics supply chains for a range of industries across Australia. Vertiia's unique design offers game-changing performance in this emerging global industry and is the only concept likely to meet the majority of Australia's needs. Uber has announced Melbourne as the first city outside the United States where they will launch Urban Air mobility. Melbourne will see a fleet of eVTOL aircraft to transport people safely, quietly and efficiently, with a forecast passenger cost equivalent to a taxi or rideshare today. AMSL Aero is actively engaged in becoming one of Uber's partner aircraft manufacturers and operators. Once this project is complete, Vertiia will be the optimum aircraft for the Uber requirement globally. Australia has the third-largest commercial helicopter fleet globally, used heavily by mining, energy, agriculture and medical industry sectors. eVTOL aircraft will replace helicopters, as they are four times quieter, fifteen times more reliable, two times safer and ten times less expensive (Porsche Consulting 2018). Australia is dependent on imported oil for transport, and air transport is one of the hardest sectors to reduce carbon emissions. Vertia solves both problems, with its electric propulsion that can efficiently integrate hydrogen fuel cells, allowing ranges closer to 1000km, which is farther than Sydney to Melbourne. Remote and rural health is constrained by the vast distances to health care and dispersed populations. This significantly increases the cost of healthcare, as patients are often not treated until it becomes urgent, which requires retrieval by air and that aircraft needs intensive care capabilities to ensure patient survival. These aircraft are expensive to buy and operate. A lower cost alternative for aeromedical transport, would ensure that medical care can be delivered before it is critical. AMSL holds international patents for Vertiia's unique tilting wing and rotor. Its' design allows it to travel further at a lower cost than competitive models in development. Given Vertiia's capability to land on different surfaces, its high level of energy and cost efficiency, fast speeds (300km/hr) and high levels of safety, it provides a global leading transport platform for passenger and aeromedical evacuation. International competitors focus on much shorter ranges, and their designs can not meet the needs of Australia's aeromedical sector. The scope of the project is to optimise, build, and certify the full-size prototype of Vertiia, for civil passenger and aeromedical applications in Australia. An optimisation is critical to meet the ambitious design goals needed to save Australian lives. Key activities: - Subscale demonstrator design, build, and test for validation and autopilot integration - Digital Design methods - optimising aerodynamics, structures and propulsion systems - Autopilot development, including integration with collision avoidance and auto landing systems - Cabin design studies and mock-up for aeromedical end-user feedback - Hydrogen Fuel cell design studies and aircraft optimisation - Full-scale prototype construction and ground safety testing, vertical mode (hover) flight testing, horizontal flight (airplane) testing and transition phase flight testing (vertical to horizontal and back) The project is constructed so that vital aspects are de-risked as early and cost-effectively as possible. We will partner with the University of Sydney to optimise the aircraft's performance, which includes digital design methods, and validation, using small scale test articles and wind tunnel testing. We will integrate and test a safety certifiable autopilot on a scaled prototype; build a cabin for customer and end user feedback; and integrate systems on a full-size ground test rig. This will feed into further optimisation and the build of the full-size prototype. The project is linked to the Advanced Manufacturing Growth Centre (AMGC)'s Sector Competitiveness Plan. Specifically, our project: - increases research and development in new	

12/02/2020	Arc Hardware Incubator - Hardware Innovation for Global Startups	Arc will run 5 distinct programs over two years to support hardware startups looking to bring their innovation to the market. These are: 1) Startup Weekends 2) Pre-accelerator Programs 3) Post-accelerator Programs 4) International Investor Trips 5) Pitch Nights Because of its available cutting-edge prototyping equipment and product commercialisation know-how, Arc is best positioned to support high growth companies developing technologies in the IOT and robotics space (this includes: automation, ai and sensor related tech). The programs are designed to provide startups with resources and support throughout 4 main stages: 1) Product Design and Development 2) Market Fit and Strategy 3) Manufacturing 4) Investment and Sales	
13/02/2020	Manufacturing Lightweight Rocket Fuel Tanks to Make Space Affordable	We propose a CRC-P project to advance the manufacturing technologies and commercialisations related to liquid oxygen (LOX) rocket fuel tanks, using advanced automated lightweight composite materials and manufacturing. The project involves 5-axis robotic automation in filament winding, together with novel applications of graphene sensors, piezoelectrical interface pressure sensing, and numerical modelling of composite processing. The consortium has engaged with the Advanced Manufacturing Growth Centre (AMGC), where the alignment to Australia's advanced manufacturing roadmap has been confirmed. The project is closely aligned with AMGC's Priorities for Business – Robotics and Automation, Advanced Materials and Composites, Digital Design. This project has also received strong encouragement from the Australian Space Agency, and is aligned with the Agency's vision on broad growth in the space sector. The majority of space launch vehicles use cryogenic liquid propellant, such as pressurised liquid oxygen (LOX) being stored at -219 oC and 930KPa. Currently, metallic aluminium-lithium alloy is used as the state-of-the-art storage tank for liquid rocket fuel. Cryogenic polymer carbon fibre composites have relatively higher specific stiffness and strength and low susceptibility to fatigue and corrosion than metallic aluminium-lithium alloy. NASA has successfully demonstrated that, composite cryotanks can achieve up to 25% cost saving and 30% weight savings for space launch rockets., however, barriers still exist to advance the technology readiness level (TRL) of the composite cryotank technology from TRL 4 to TRL 9 for commercial rocket applications. One primary barrier is the potential for defect formation in the form of voids in the composite laminate during the manufacturing process. Under the LOX cryogenic pressure, composite tank permeation and reliability is extremely sensitive to voids and micro level defects; potentially leading to catastrophic failure of the cryotank and associated launch vehicle. Our proposed approach is to investigate and optimise the defect formation during composite cryotank manufacturing, physical testing and demonstrate the new fuel tank technology in small rocket launch trials. The proposed approach is built upon our existing research expertise and capability. Material characterisation - The project will use the out-of-autoclave prepregnated system CYCOM 5320-1/IM7 as the baseline material for the all-composite cryotank. USQ have the manufacturing expertise with this prepregnated system under the continuing collaboration with Australian Defence Science and Technology Group for composite repair applications. For the this CRC-P project, we will further characterise CYCOM 5320-1/IM7, process-specific for filament winding and out-of-autoclave consolidation. We will analyse permeability, cure kinetics, coefficient of thermal expansion and volatile gas emission during curing. Manufacturing - The project will set up Australia's most advanced R&D robotic filament winding facility to investigate innovative processes for defect detection and reduction. The development technology will be based on the 5-axis robotic filament winder, which in comparison to a traditional 3-axis filament winder, has the advantage to develop complex layup strategies and scale-up to manufacturing large size cryotanks (2 metres diameter). It will meet the requirement for low cost small rockets, supporting Gilmour Space Tech' ambitions to secure sovereign capability within Australia. The project will also use novel dielectric sensors to monitor the curing process in the tool, these sensing technologies are critical to ensure robust processes, cost savings and higher productivity. Design and Analysis - Mesoscale and macroscale finite element modelling will be implemented to verify the cryotank design, by assessing the design factors of the cryotank geometry, winding angle and stacking sequence. The numerical model will identify critical cryotank zones under predefined loading conditions and predict delamination and	

13/02/2020	Next-generation Test and Measurement devices for photonics sensing	This project will introduce two new hardware devices to the test and measurement market and two new software instruments targeting photonics sensing applications. Test and measurement devices are the instruments that engineers and scientists use to design, develop, test, characterise, manufacture and repair electronic devices. Liquid Instruments' highly successful Moku:Lab product pioneered a new approach to test and measurement. This approach combines advanced digital signal processing with reconfigurable hardware to replace many conventional pieces of equipment with a single device at a fraction of the cost. The partners of this CRC-P developed this technology over several decades working on the LIGO gravitational wave detector and on NASA's GRACE Follow-on mission. This project's first hardware device, Moku:Pro will build on the Moku:Lab approach but with significantly enhanced performance to target high-end applications. It will have twice as many inputs and outputs, a ten times increase in sampling rate and 25 times higher output power compared to Moku:Lab. These improvements will increase the Total Addressable Market (TAM) of Liquid Instruments' products from around US$100M to approximately US$5.7B (Frost and Sullivan, Test and Measurement Report, 2018). For example, with these specifications Moku:Pro will be highly competitive in the Oscilloscope market. Oscilloscopes are the number one test and measurement instrument and alone have a TAM of US$1.16B (Frost and Sullivan, 2018). The second hardware product, Moku:STEM, will deliver a cost-optimised version of the hardware to better serve the $450M education market for large-scale use in undergraduate science and engineering classrooms and teaching laboratories. Development of both hardware products will involve prototyping, performance testing and customer/end-user validation. These activities will be conducted by the project partners Liquid Instruments (LI), the Australian National University (ANU) and EOS Space Systems (EOS), as described below. 1) Moku:Pro development • Design and Requirements review (LI, ANU, EOS) • Hardware prototyping (LI, ANU) • Software and digital signal processing for photonics sensing instruments (LI, ANU, EOS) • System-level tests in an optics lab, with requirement verification report (ANU, LI, EOS) • Hardware and software revisions (LI, ANU) • Delivery of final product to EOS for customer validation (EOS) 2) Moku:STEM hardware development • Design and Requirements review (LI, ANU) • Hardware prototyping (LI) • Software and digital signal processing development (LI, ANU) • Conduct a Pilot program for Moku:STEM in undergraduate teaching labs (ANU, LI) The project's hardware activities will conclude with a pilot manufacturing run of the new hardware products, completing the preparation for mass production. Moku:Pro's specifications will directly address many segments of the general test and measurement market. Providing advanced measurement capabilities tailored to photonics sensing applications, however, will require the development of custom instruments, which are the software and digital signal processing algorithms that will run on the Moku:Pro hardware. This project will develop two such instruments: 1) a laser frequency stabilisation system and 2) a spread spectrum phasemeter for precision optical metrology. Instrument 1. Laser Frequency Stabilisation Instrument This project will produce an instrument to stabilise the frequency or wavelength of a laser. The laser frequency is a critical parameter in many applications such as coherent optical communications and optical metrology for accurate distance measurements. Specifically, this project will develop a digital signal processing algorithm to lock the frequency of a laser to the optical resonance of a cavity using the Pound-Drever-Hall technique. Typically a frequency locking control system is cobbled together from multiple stand-alone instruments and analogue electonics components. The system we will	
2/03/2020	Commercialisation of a unique, multidisciplinary approach to rapid alloy development.	Deakin University have developed RAPID: Rapid Alloy Process, Innovation & Design. RAPID will provide innovative and complex alloy solutions to the Aerospace, Automotive, Mining and Medical sectors. The technology will enable clients to have purpose specific alloys developed in timeframes not achievable using traditional processes. Entrepreneurs' Programme commercialisation support will be used to help Deakin University commercialise this process and establish RAPID as a stand alone commercial entity.	
3/03/2020	New Scientist Live, Australia	A 3 day STEM based Science Festival with interactive activities, features, experiments, visual reality, AI and much more. Be inspired, see the latest technologies, engage with real scientists and learn from the best of the best. With 3 theaters, listen to your favorite scientists and speakers discuss different topics from space, climate, environment, robotics, digital technology, engineering, the human body and more. Be prepared to learn, engage and have fun!	
11/03/2020	Exciton Luminescence and Fluorescence Pop-up Laboratory	This project is hosted by the ARC Centre of Excellence in Exciton Science (ACEx) and will be an immersive and educational pop-up space hosting a lighting experience and workshop. The goal of this space is in teaching audiences about what light is, how light can be transformed, manipulated and can be harnessed in the development of novel solar and lighting materials. Placed in a central location in the Melbourne CBD, this pop-up space will act as both a teaching and exploratory exhibit where audiences can move through an engaging fluorescent wonderland while engaging with the science behind nano materials and solar energy technology.	
13/03/2020	Our Outdoors the science of healthy cities	Our Outdoors the science of healthy cities is an interactive family event focused on the role of shared outdoor spaces in health and wellbeing. Through a drop-in Experimentarium , guided nature walks, and a scientist s picnic, participants will learn about the role that shared outdoor spaces play in their own health and wellbeing, how science is tackling key issues affecting cities in the 21st century, including climate change, air quality and equitable access, how they can get involved to help scientists tackle these issues, and what actions they can take to enhance their own outdoor spaces. The event will take place in Fairfield, Western Sydney on Saturday 22nd August.	
25/03/2020	Maker Nest: space and time for start ups to hatch, grow and fly.	Maker Nest has been designed to create the optimum social, cultural and economic environment for ideas and enterprise to grow and take flight. Tiered incubation programs will realise Maker + Co's vision of creating a better, smarter future by connecting a global community of inventors, creatives, entrepreneurs and innovators. Our inherently creative programs will champion and commercialise the value of innovation and social, cultural and economic sustainability to create a better future for generations to come.	
28/03/2020	TastroFest - Tasmania's Astronomy Festival	TastroFest is the largest astronomy festival in Australia and is held annually in North West Tasmania. In 2020, we will be celebrating as we mark the 50th anniversary of Apollo 13. This year, we will be looking at how astronauts get out of difficulty in the confines of space and problem solving with limited resources. Join us in 2020 as we conduct astronomy classes in identifying the sky around you and learn from experts in the diverse fields of the space industry.	

21/04/2020	Quality assurance for metal 3D printing.	Additive Assurance is commercialising a novel quality assurance process for metal 3D printing. Metal 3D printing is revolutionising manufacturing across a range of industries, from aerospace and medical devices to mining and marine. While it has substantial potential, inconsistent quality is limiting where the technology can be used. Additive Assurance has developed innovative sensor and analysis method to ensure the quality of 3D printed products, through monitoring and detecting faults in real-time, enabling manufacturers to produce parts more efficiently than previously possible. Accelerating Commercialisation support will be used to help engage with leading aerospace and defence customers and launch the product to the broader market.	
21/05/2020	Shoalhaven SME Manufacturing Export Hub	The project will establish an SME Export Hub to support Shoalhaven manufacturing SME's to get export ready. The hub will work with each participant business to create individualised export strategies. These strategies will also be used to identify common barriers to export and potential overseas markets. The network of SME's will create a space where businesses can learn first-hand from each other's export experiences and collaborate on export efforts. The development of export strategies and the creation of the export hub will create export ready businesses that are then able to take advantage of other services such as those offered by Austrade, TradeStart and Growth Centres.	
27/05/2020	Underwater Virtual Reality Training Simulations for Astronauts	The project will contribute to the development of the world's first underwater virtual reality training simulator for astronaut and human space exploration training. The technology will allow private space companies and government organisations to develop accurate, safe, measurable and repeatable training for their space teams, at a fraction of current costs.	
27/05/2020	AI Crew for space: helping with complex systems tests	The project will develop an Artificial Intelligence (AI) Space Crew with distinct personas working together as a team. Together, the AI crew will complement the human team, and start to evolve towards fully autonomous operation. Each member of the AI crew will have their own strengths. The Helper, an outgoing and cheerful agent, will proactively engage with humans to provide encouragement and assistance with complex tasks, and talk with natural language. The Inspector, a shy but curious nonverbal agent, will support the human team by continually monitoring the environment and look for anomalies, using sensors and computer vision. Finally, the omniscient Manager will give a high-level overview of the status of the environment and all tasks being performed.	
29/05/2020	South Australian Space Observatory	The project will combine two complementary Australian developed space sensors to provide space domain awareness (SDA) to support space traffic management (STM). This will be done through the establishment of a new space observatory in rural South Australia. The observatory will include a Silentium Defence MAVERICK S-series passive radar sensor, a Western Sydney University (WSU) Astrosite neuromorphic imaging sensor, and supporting infrastructure to host the sensors, process the data and transmit the information back from the observatory.	
2/06/2020	Corporate startup partnership programs (CSSP)	Since 2016, Collective Campus has been partnering startups with corporates. We have worked with the likes of Mills Oakley, Charter Hall, BNZ, Lufthansa, Microsoft, Village Roadshow, NTUC Income and local government councils and partnered them with over 50 startups from across Australia. CSSP is about identifying key challenges and problems that large organisations face with solutions that start-ups and scale-ups can deliver. It's about plugging real problems with real solutions in order to deliver immediate benefit to both the sponsor corporates and the startups/scale-ups. The latter get revenue, case studies and testimonials, whereas the former get working solutions. We will use these funds to double our efforts & impact in this space.	
4/06/2020	Next Generation Prefabricated Building Manufacturing Facility	Meyer Timber Pty Ltd is a major timber wholesaler and is now planning to expand its business into the prefabricated building sector. Meyer Timber intends to set up a manufacturing facility to produce an innovative timber panel based prefabricated building system for use in low-to-mid rise commercial and residential buildings. The 12,000 sq.m manufacturing facility located in Dandenong Victoria will be fitted out with a lean manufacturing system using engineering practices borrowed from the automotive industry. The Manufacturing Investment Programme will assist with the installation of an advanced production system capable of producing up to 10,000 sq.m of built space per annum. By utilising automotive derived processes such as Design for Manufacturing and Assembly (DfMA) and a Lean Manufacturing continuous improvement program, the investment programme will implement a range of ongoing upgrade milestones to bring the facility to global best practice output efficiency levels.	
9/06/2020	Design & qualification of micro-satellite constellation launch systems	The project will complete the design, development, manufacture and qualification of a novel structure to deploy constellations of Australian designed microsatellites from the Indian Space Research Organisation (ISRO) Small Satellite Launch Vehicle (SSLV). The project will be conducted by Skykraft and XTEK in partnership with New Space India Limited. The technology will provide a fundamental building block for Australian microsatellite constellations to be launched into Low Earth Orbit and deliver networked space services into domestic and international markets.	
10/06/2020	VertiSense-Mitigation of Sensorimotor Effects Of Simulated Weightlessness	The project will develop countermeasures to mitigate the effects of weightlessness-induced sensorimotor disturbances following spaceflight. The University of Canberra will work with Australian industry partners elmTek and SRCHealth to address this NASA 2019 Human Exploration Research Opportunities priority. The project team have validated a novel system for assessing negative sensorimotor disturbances and subsequently developed a wearable countermeasure to mitigate this problem. The project will enable the construction and deployment of the novel system for use at NASA and European Space Agency facilities; fabricating the wearable countermeasure to allow participation in the NASA project; and commercial production of an operational sensorimotor assessment and countermeasure for human spaceflight.	
15/06/2020	Australian Space Data Analysis Facility	The project will establish the Australian Space Data Analysis Facility (ASDAF) in Western Australia. The facility will provide Australian small to medium enterprises (SMEs) and researchers with space data analytics capability across a number of industries including, but not limited to, agriculture, mining, emergency services and maritime surveillance. The project will support the Government's objectives to drive the growth of the Australian Space Industry and create new jobs by accelerating the commercialisation of new products and services through access to ASDAF.	

16/06/2020	Rapid Prototyping space and Design Thinking capabilities for Start-ups	Presently our startups are relying on overseas entities to provide prototyping services which severely impacts and slows product design, iterating and testing together with compromising IP. To solve for this, we propose to set-up and manage a rapid prototyping learning space inside Cicada - home to Australia s largest community of deep tech entrepreneurs - and foster a collaborative community of deep tech innovators by delivering targeted design thinking programs to effectively support and direct prototyping activities. The project will enable Cicada to rapidly roll out the initiative to 120 participants impacting up to 20 established early-stage start-ups and a further 40 new businesses progressing through accelerator programs in 2019.	
16/06/2020	Five Rings Aerospace 4.0 Advanced Manufacturing Technology	The project introduces Innovative 4.0 Technology into Five Rings Aerospace's engineering design and manufacturing. The project includes investment in a portable 3D laser scanning unit that captures aircraft or object data in real time. Combined with a rapid prototyping CNC Milling Machine, Five Rings Aerospace engineers would be able to design, enhance or modify aerospace components seamlessly through to production. Technical and digital automation will enable improved business capacity and competitive foreign market opportunities.	
17/06/2020	Spacesuits for Preserving Human Health and Mobility	The project will develop and refine three different compression spacesuits, including our Skinsuit deployed twice on the International Space Station. The spacesuits will: 1) help mitigate bone loss and other health side effects of weightlessness by imposing earth-like loading; 2) enable greater mobility and safety for spacewalking compared to traditional gas-pressurised spacesuits; and 3) prevent issues with blood flow and fainting as astronauts return to Earth. The goal is to establish Australia as an internationally recognised hub for space-related compression garments, and translate that technology for Earth-based medical applications such as for burns, sports, lymphoedema, osteoporosis and cerebral palsy. The project will be conducted with extensive international collaboration, including NASA and the European Space Agency.	
23/06/2020	The SpIRIT (Space Industry Responsive Intelligent Thermal) CubeSat mission	This project aims to grow Australian space industry capabilities through the development of an innovative nano-satellite. It involves a partnership between the University of Melbourne, Inovor Technologies, Sitael Australia, Nova Systems and Neumann Space, with support from the Italian and United Kingdom (in an advisory role) Space Agencies. SpIRIT will break new ground in high performance autonomous operations, communications, propulsion and thermal management, and be the first Australian-made spacecraft to host a foreign space agency payload, showcasing the competitiveness of Australia's nano-satellite R&D and advanced manufacturing. The project will demonstrate the viability of Australian products in the global supply chain of satellite components, give hands-on training to grow a highly capable space-sector workforce, and inspire the public.	
25/06/2020	Decision Support System for Collision Avoidance of Space Objects	The project will develop a better method to help satellite operators assess real risks to satellites from collisions. Collisions between operating satellites and space debris are a major concern in the space community. Collisions can be approximately predicted but the probability of collision is highly uncertain and it is costly to move a satellite. NASA's Robotic Conjunction Assessment Risk Analysis (CARA) is responsible for protecting all NASA satellites from catastrophic collisions. CARA has developed a concept for a Decision Support System (DSS) to assist satellite operators make collision avoidance decisions. This project will develop the concept into an operational tool, enabling operators to make collision avoidance decisions with greater certainty and speed.	
25/06/2020	Next Generation Machining Technology for Expanded Aerospace Opportunities	George Lovitt (Manufacturing) Proprietary Limited is a specialist, independent, precision component and assembly manufacturer in the aerospace industry. The project will allow the company to purchase a 5-axis vertical machining centre with a 'SMOOTHX' controller offering advanced technological capabilities to produce high precision components demanded by the aerospace industry. This new capability will provide highly efficient manufacturing of aerospace products and support delivering Australian industry content for the export market. The project is expected to create 6 new jobs and upskilling for existing employees.	
26/06/2020	OSSO: The Open Source Space Operations infrastructure	The project will deliver open source software infrastructure for spacecraft operations. Australian small satellite developers all require software to connect satellites, payloads, and dish networks to mission control centres. Infrastructure is normally a bespoke or proprietary development and is a barrier to entry for new spacecraft teams. Open sourcing the infrastructure will allow Australians to learn lessons from each other, build on a community of success, and provide a framework for national improvement. The project's reference mission is a $1.5 million planet hunting spacecraft from the Breakthrough Initiatives operated by Saber Astronautics' Mission Control Centre in Sydney, and includes support to Australian made payloads in its 2022 launch.	
26/06/2020	RSOC: The Responsive Space Operations Centre	The project will establish a national Mission Control Centre at Lot Fourteen in Adelaide, South Australia – the Responsive Space Operations Centre (RSOC). This centre is for small-to-medium enterprises and researchers to control satellite and space missions, employing leap-ahead technologies to improve space mission capability whilst reducing risk. The project will develop a secure business model with a user-centric approach to action satellite tasks from the public and traditional Australian markets, such as agriculture, mining and banking. The RSOC will be a one-stop-shop solution for Australia, suitable for all classes of missions from the small satellite requirements of today to the astronautic needs of tomorrow.	
29/06/2020	Australian Space Automation, AI and Robotics Control Complex (SpAARC)	The project will establish a Robotics, Automation and Artificial Intelligence (AI) Command and Control Centre in Western Australia called the Australian Space Automation, AI and Robotics Control Complex (SpAARC). SpAARC will incorporate three integrated facilities: a connected and secure control centre supporting multiple teams; a development and test centre supporting hardware and software simulation testing; and a training facility for qualification in terrestrial and space robotic operations. SpAARC will also adopt an accessible operating model and industry-validated design, supported by an online platform and knowledge base, to ensure an enduring facility.	
6/07/2020	Development of a passive radio frequency space situational awareness software/hardware platform	Innovation connections promotes collaboration between small and medium sized Australian businesses with the research sector to develop new ideas with commercial potential.	

7/07/2020	Digital Interferometry Optical Gyroscope for autonomous navigation	Today's society requires accurate positioning information used in solutions from maps on your smartphone to submarines navigating the ocean. Whilst we are all aware of GPS positioning, this does not have 100% availability. Accurate and reliable navigation is achieved when combined with inertial devices such as ring laser and fiber optic gyroscopes. This project will develop an Australian capability to build world-leading positioning equipment based on a technology called Digital Interferometric Optical Gyroscope (DIOG). DIOG will solve challenges across infrastructure management and autonomous transport, mining, space, agriculture and defence. The team will focus on addressing two industry problems: -Autonomous vehicle navigation relies on vision sensors, such as LIDAR, to scan surroundings and navigation sensors, which includes gyroscopes, to localise data and reduce errors. The price of LIDAR sensors has fallen from USD 32k to less than USD 1k in the last decade, but the cost of high-performance gyroscopes has remained greater than USD 20k, limiting the possible adoption of Level 4 and 5 vehicle automation (the top levels defined by the Society of Automotive Engineers). -Autonomous infrastructure inspection, which requires high-performance navigation, is widely regarded as a high-value opportunity to remove significant costs and safety risks from maintenance inspection activities across various industries. Despite the interest from large, global players, the available solutions remain uneconomical for mass-market adoption. A gyroscope is a sensor that measures the rotation of a system. Due to the size and cost of high-performance gyroscopes, utilisation and adoption has been limited to large military vehicles and limited deployment on autonomous infrastructure inspection or autonomous vehicle navigation mass-market applications. We are proposing to develop a new type of ultra-high-performance gyroscope with an 80% reduction in manufacturing costs. This is made possible through the combination of proprietary digital interferometry algorithms developed at ANU, proprietary lithium niobate on insulator technology developed at RMIT, advanced sensor manufacturing capability and proprietary artificial intelligence algorithms for navigation that are developed by Advanced Navigation and also proprietary autonomous inspection technology developed by Corridor Insights. The reduced production cost of the gyroscope will have a significant impact on the cost of the overall system for autonomous infrastructure inspection and autonomous vehicle navigation. The project is aligned with all four of the Australian Advanced Manufacturing Growth Centre's recommended actions for industry and Research and Development Priorities of Robotics and automated production processes, Advanced materials and composites, and Nano, micro and precision manufacturing. The project is well aligned with the Government's Science and Research Priorities of Advanced Manufacturing and Transport. The team will develop and integrate the technologies to optimise performance of the DIOG innovation including miniaturisation and radical cost reduction of optical circuits, creation of new next-generation signal processing algorithm methods for error reduction and design of a high-tech optical gyroscope manufacturing line suited to the new design. The project is structured into 5 milestones to provide structure to the key activities: -DIOG device simulation and modelling: Quantification and evaluation of user environment. Extensive FEA and Matlab simulations to identify and optimise performance. -LINOI waveguide material development: Photonics components to be built on a proprietary lithium niobate on insulator technology. -Digital interferometry algorithm and architecture development: Application of ANU's proven algorithms to cost-optimised hardware in their optics labs. -Automated manufacturing development and optimisation: Manufacturing systems to ensure high reliability and repeatability. -Testing and characterisation of DIOG devices. The global market for high-	

28/07/2020	A sensor network for integrated Space Traffic Management for Australia	The global space sector is undergoing unprecedented change. Government investment in space by many countries has reduced barriers to commercial space access resulting in a projected 20-fold increase in the number of satellites in orbit by 2025. Further, new low-power electric propulsion technologies allow satellites to constantly change orbit. Increased satellite density and manoeuvrability will soon outstrip legacy STM systems' capabilities, and there is global consensus on the need for innovative STM systems and related technologies for satellite identification, tracking and collision avoidance. The timing of this CRC-P is ideal to support the development of a unique Australian radio frequency (RF) sensor that will accurately locate and identify satellites through their radio transmissions, and feed data into an integrated commercial STM system for secure storage, analysis and distribution of collected data. This work will be conducted by Clearbox Systems, Capricorn Space and Bluerydge – three Australian SMEs with expertise in communications networks and spectrum operations, ground segment services, and cybersecurity respectively – and the University of New South Wales (UNSW). RF technology is well-developed particularly for communications. The application of RF to Space Domain Awareness (SDM) is novel, offering strengths over other SDM sensors including: Unique identification of satellites from their transmitted signal characteristics, High precision tracking, Day and night operations (optical sensors cannot operate in daylight), Detection of satellite capability for operational or regulatory purposes, Use of existing antenna infrastructure for low cost deployment. This CRC-P will advance collaborative research in passive RF signal monitoring for SDM conducted by Clearbox Systems and UNSW across two programs in 2019 and 2020. The team has identified techniques to generate SDM data using passive RF sensing and identified methods and operating models to integrate RF data with data derived from optical/laser and radar techniques. In this CRC-P, the team will apply that knowledge to develop and test a robust, low cost RF SDM sensor at Technology Readiness Level (TRL) 8 for commercial sale. This CRC-P will also investigate and commence development of a cyber-hardened SDM data storage system, compatible with emerging global STM data standards, for future commercial sale. The key activities to be undertaken are: 1) Sensor Development (Clearbox Systems, UNSW and Capricorn Space). RF sensor characteristics will be determined and prototype sensors will be manufactured and field tested. 2) Software Development (Clearbox Systems and UNSW). Algorithms to convert sensor data into SDM data will be refined and added to production-ready software. 3) Sensor Network Deployment (all partners). A pre-commercial network of ground-based sensors will be deployed to progress the development of both the sensors and software based on data collected from the operational environment. 4) SDM Data Storage Facility Development and Cyber Hardening (Clearbox Systems, UNSW and Bluerydge). A cyber-hardened SDM data storage facility will be specified for the data generated by the RF sensor network, global STM data standards and cyber good practice and accreditation requirements in preparation for product development for commercialisation. 5) Educational activities (all partners). Three UNSW postdoctoral researchers will be employed for the project and a UNSW student will undertake a placement with one of the Industry partners each semester. The following outcomes will be delivered: Improved Advanced Electronics Manufacturing capability through the development of a new SDM sensor type for sale in Australia and internationally, Addressing the Australian Space Agency SDM and STM priorities, Deployment of an SDM sensor network to generate data for sale within Australia and internationally, Increase in Cyber expertise for space-related applications through the implementation of cyber security controls to protect collected data, Contribution to	
3/08/2020	Sensing Spacer Blocks	Innovation Connections promotes collaboration between small and medium sized Australian businesses and the research sector to develop new ideas with commercial potential.	
8/10/2020	A Maker & Breaker CoLab: inclusive community STEM engagement in New England	The Maker & Breaker CoLab for New England aims to bring to life a dedicated maker space for New England. In the space we will facilitate STEM programs for young Ezidi refugee's ages 6-18 years and their families, and for regional girls ages 8-14 years. The STEM focused, purpose designed programs will bring together young people in a future focused space, of which nothing of its kind exists in Armidale. Participants will benefit from hands on challenges, learning new skills in order to solve user-identified challenges. Ezidi young people will be immersed in a safe space to acquire a language in STEM, but also improve English language in group work on STEM concepts.	
14/10/2020	SPARTAN: A scramjet engine for reusable space launch	Accelerating Commercialisation support will be used to deliver the Australian manufacture of a commercial-ready hydrogen fuelled scramjet engine using advanced carbon composites. SPARTAN will revolutionise the LEO small satellite market.	
11/11/2020	LuminaX: health and wellness start-ups accelerator	Co Hort Space Pty Ltd will deliver LuminaX - A 14-week accelerator program designed to validate and commercialise ten international early-stage start-ups in the first health and wellness specialised pilot accelerator program on the Gold Coast.	
19/11/2020	STEM Access Program for Indigenous Students	In partnership with Its Rocket Science Adventures, the Graham (Polly) Farmer Foundation will deliver aviation and aerospace STEM innovation workshops for Indigenous students across Alice Springs, the Pilbara and the Kimberley. Up to 720 Indigenous students in Years 3 – 10 from the Foundation's primary and secondary education programs will benefit from the program. Directly aligned to the Australian Curriculum, students will access industry specialists, make connections to real-world applications of flight, rocketry and space technology to understand how and why things fly through STEM design and project-based investigations, hear about the latest in aerospace discovery, and learn about career options in aerospace and aviation.	
22/12/2020	Share with Oscar - National Expansion Project	Share with Oscar is executing a national expansion of the Share with Oscar program, a real time on-demand platform that unlocks access to vacant car spaces in cities. This project will focus on enabling the technology for market entry, and marketing activities for sustained market growth.	
13/01/2021	Evaluation of spaceborne & proximal spectral sensing for gold-related alteration mineral mapping	Innovation Connections promotes collaboration between small and medium sized Australian businesses and the research sector to develop new ideas with commercial potential.	

8/02/2021	Scientists work with communities to improve urban microclimate	The number of extreme hot days is predicted to increase significantly over the next few decades in all Australian cities with a huge impact on public health, mortality rates, energy demand and economy. Working with 12,200 citizens through 22 local councils across Australia, the project will design infrastructure to measure urban heat island, overheating, and local climate change, providing the data required for citizens to understand, mitigate and adapt to extreme heat; and for policy makers to predict future health and energy needs and plan the urban built environment and open spaces. Importantly through data collection and participation, citizens will be empowered to respond to extreme heat through an understanding of influential factors.	
9/02/2021	Growing Workshop26 - Kimba's Creative Quarter	Expansion of rental space at Workshop26, to grow and support more creative micro-businesses and in turn the economic strength of the community. Three additional fitted-out shipping containers will be added to meet demand, as well as a fourth container for storage. Expanding the hub of creative and retail businesses at Workshop26 will in turn increase its tourism appeal and patronage.	
17/03/2021	Supporting Infrastructure for Space Edge Computing	The project will support the development of software infrastructure to support the sending and updating of applications aboard Spiral Blue's Space Edge Computers. The computers will improve the affordability, flexibility and speed of Earth observation services and are to fly on two Earth observation CubeSats during the project, providing onboard data processing and enabling machine learning driven autonomy. The project will allow Spiral Blue to begin commercial sales for accessing Space Edge at an operational scale, both for satellites in Earth orbit and for interplanetary exploration missions.	
22/03/2021	Inertial navigation in space by software-enabled quantum-classical sensing	The project will support Advanced Navigation and Q-CTRL to undertake critical technical development activity for the development of novel navigation capability. The companies will collaborate to develop quantum-enhanced navigation systems which address the key challenge of inertial navigation for long-endurance space missions. The technology will deliver a unique Australian capability to launch partner Gilmour Space Technologies. The grant will support Advanced Navigation and Q-CTRL's ambitions to supply the Australian and international space sectors with a world-first offering delivering on critical mission needs.	
16/04/2021	SciScouts/ Science with Matt	Up 50 Cub Scouts, Scouts and Venturer Scouts aged 11-16 will attend the SciScouts /Science with Mat space program from 19-23 April 2022.. Scouts from across the ACT and surrounding ACT region are most likely to attend, however the offer to attend will be extended to any registered Scout from across Australia who are willing to travel to Canberra to attend.	
16/04/2021	Replay FIRST Lego League Challenge	The team have qualified to compete in the Asian Pacific Open Invitational. In the Robot Game, the team will: • Identify Missions to solve. • Design build and program a LEGO Robot to complete the Missions. • Test and refine the program and design. Robots will have to navigate, capture, transport, activate, or deliver objects. Competitors will only have 2½ minutes to complete as many Missions as possible. In the Innovation Project, the team will: • Identify a problem with a building or public space in the community. • Design a solution. • Share the solution with others and then refine it.	
13/05/2021	International SpaceCRAFT Exploration Challenge	The International SpaceCRAFT Exploration Challenge provides students an incredible virtual opportunity to participate in space exploration. As part of a mission team, students will design a spacecraft, navigate to another planet, land their vehicle, build a planetary habitat, and explore a new planet to find resources in order to sustain human life. Students will learn from subject matter experts including astronauts, scientists and engineers who are directly involved in ongoing missions as they compete with other teams. Topics range from planetary science to spacecraft systems, orbital mechanics and robotic exploration, bringing space exploration to an understandable level for all students.	
14/05/2021	Space Manufacturing Facility Design Brief	The purpose of the Space Manufacturing Facility Design Brief (the Design Brief) is to set out the functional and physical form of a potential space manufacturing facility at the Aerotropolis Core Precinct. The Design Brief's core activities include operating model design; national engagement; industry mapping and the development of functional and physical form options.	
24/05/2021	International SpaceCRAFT Exploration Challenge	The International SpaceCRAFT Exploration Challenge gives students an incredible opportunity to participate in space exploration themselves. As part of a mission team, students will design spacecraft, navigate to another planet, land their vehicle, build a planetary habitat, and explore a new planet to find resources in order to sustain human life. They will learn from subject matter experts including astronauts, scientists & engineers who are directly involved in ongoing missions as they compete with other teams for the best mission design. This program will inspire our students in Regional NSW to pursue STEM subjects in school & ultimately enable them to join scientists and engineers working on the space frontier.	
8/06/2021	International SpaceCRAFT Exploration Challenge	Students will design spacecraft, navigate to another planet, land their vehicle, build a planetary habitat and explore to find resources in order to sustain life. They will learn from experts including astronauts, scientists and engineers who are directly involved in ongoing missions as they compete against other teams for the best mission design. Lessons ranging from planetary science, spacecraft systems, orbital mechanics and robotic exploration bring all aspects of space exploration to an understandable level for students who learn by using creating with these concepts. The program will inspire students to pursue STEM subjects that will enable them to join the community of scientists and engineers working on the space frontier.	
10/06/2021	Enabling Space Capability	The project will support Crystalaid Manufacture to upgrade their organisational capability to enable the supply of componentry to the international space industry. It will also provide the company with the ability to replace and modernise their vacuum vapour phase oven to increase the space manufacturing readiness needed to successfully bid on international space projects. The grant will support Crystalaid Manufacture to meet an identified supply chain opportunity and grow the skills and capability of its manufacturing team.	

10/06/2021	International SpaceCRAFT Exploration Challenge	The International SpaceCRAFT Exploration Challenge provides students an incredible virtual opportunity to participate in space exploration. As part of a mission team, students will design spacecraft, navigate to another planet, land their vehicle, build a planetary habitat, and explore a new planet to find resources in order to sustain human life. Students will learn from subject matter experts including astronauts, scientists and engineers who are directly involved in ongoing missions as they compete with other teams. Topics range from planetary science to spacecraft systems, orbital mechanics to robotic exploration, bringing space exploration to an understandable level for all students.	
15/06/2021	Optimising computing interfaces for Human to Machine lunar operations.	The project will conduct further development of spatial computing interfaces, enabling astronauts to control lunar robots efficiently and effectively from a lunar surface habitat or vehicle. Raytracer will collaborate with their project partner the Queensland University of Technology to determine the feasibility of developing of the CARBON human to machine interface system. The feasibility study will identify and address gaps in the system and assess security, technology, project and mission risks. The project outcomes will help to predict and plan the next ground and launch phases of the mission to ultimately prepare the system for space activities aboard Artemis 4 missions and beyond.	
16/06/2021	Breakthrough subsurface water-ice detection and geological mapping radars	The project will determine the feasibility of a space-hardened, compact, ultrawideband radar that can be used to sound lunar or Martian geology from surface to depth. CD3D will develop a prototype for testing over terrestrial analogue targets. The project will consider options for lander/rover deployment to use ultra-compact, 5-10 times lighter-weight, low power deep-penetrating radars tested for use in both lunar and Martian geological mapping.	
18/06/2021	Space Supply Chain Opportunities Using Low Power Wide Area Networks	The project will support Fleet Space Technologies and its partners SA Power Networks and Oz Minerals Limited to improve the capabilities, and to demonstrate the viability, of its agnostic hybrid Satellite low-powered wide area network (LPWAN) system for the development of remote massive internet of things (IoT) applications, both on Earth and in space. The companies will collaborate to miniaturise and ruggedise sensors for use in their satellite LPWAN system. The grant will support Fleet Space Technologies to pursue commercial supply chain opportunities with Oz Minerals and SA Power Networks, illustrating a terrestrial application of space technology that can be extended to Moon to Mars activities.	
21/06/2021	Australian optical communications support for NASA Artemis and beyond	The project will establish an Artemis-compatible optical communications channel over a free-space laser link between the Western Australian Optical Ground Station and an airborne target that mimics the Orion spacecraft. The University of Western Australia will collaborate with Fugro Marine Australia to remotely coordinate ground station operations through the Australian Space Automation, Artificial Intelligence and Robotics Control Complex. The project will demonstrate the feasibility of Australian optical communications support for NASA's inspirational Artemis Program to send the first woman and next man to the Moon by 2024; and it will also bring immediate economic benefit for Australian industries through its impact on terrestrial optical communications.	
21/06/2021	International SpaceCRAFT Exploration Challenge	The International SpaceCRAFT Exploration Challenge provides students an incredible virtual opportunity to participate in space exploration. As part of a mission team, students will design spacecraft, navigate to another planet, land their vehicle, build a planetary habitat, and explore a new planet to find resources in order to sustain human life. Students will learn from subject matter experts including astronauts, scientists and engineers who are directly involved in ongoing missions as they compete with other teams. Topics range from planetary science to spacecraft systems, orbital mechanics and robotic exploration, bringing space exploration to an understandable level for all students.	
22/06/2021	Laser Technology for the next GRACE Mission	The project will develop laser measurement technology for NASA's next generation gravity sensing mission, slated for launch in 2025. It extends the successful decade long Australian/NASA collaboration on the GRACE Follow-On mission to produce prototype space flight hardware for the Mass Change mission. The Australian National University and its partner CEA Technologies will work with NASA-JPL to demonstrate the feasibility to deliver a space-ready laser system to a near-term launch opportunity on a high-profile NASA mission.	
22/06/2021	Canberra STEM Experience	The school aims to send 40 students to Canberra to experience real life STEM fields in action. The voyage aims to light the spark of inspiration in the students and show them how STEM is used in a wide variety of industries. We would love to show them Australia's historical involvement in STEM and how our country will be a future leader in these industries. Ideally we would like the students to experience Questacon, the Ian Potter Foundation Technology Learning Centre, Canberra Space Dome and Observatory, Geoscience Education Centre, CSIRO Discovery Centre and a Mount Stromlo Observatory evening tour.	
23/06/2021	Multifunction Arm Robot for Space feasibility study and demonstration	The project conduct a feasibility study for the Sperospace's Robotics Satellite Demonstration (RSD) Mission including concept development, a system requirements review, and preliminary design reviews for the mission. Sperospace will collaborate with their partners the Space Machines Company, Saber Astronautics Australia, the University of New South Wales, Weintraus Inc, Orbit Fab Inc, Contactile, Spiral Blue, B Wise Networks and High Earth Orbit Robotics to launch and develop two demonstration payloads in 2022 to validate and attain space heritage for the cold welding process and sensors which will be unique advantages of MARS. A MARS prototype and end effector will be developed and tested in a laboratory environment to a TRL5 level for the feasibility element of the project.	
23/06/2021	Novel fluorescence sensing of materials for Moon to Mars ISRU	The project will discover and characterise novel fluorescence (NF) from minerals and compounds significant to space In-Situ Resource Utilisation (ISRU), to create a roadmap for design and construction of a NF sensor module including a plan to test the NF sensor module in the Space environment. The University of Adelaide will construct a cold vacuum chamber – the Lunar Surface Simulation Stage (LSSS) - to enable NF analysis in a simulated Space environment; procure samples of importance to ISRU, including if available synthetic lunar regolith; measure NF characteristics in the LSSS, focussing on NF regimes never previously explored for these materials; and undertake excitation and detection condition optimisation, to guide design of the sensor module for construction and Space Mission validation.	

23/06/2021	Feasibility of Event Based Vision Sensors servicing the Artemis Spacecraft	Thales will partner the International Centre for Neuromorphic Systems (ICNS) at the Western Sydney University and provide support and access to unique Thales capabilities to enable this feasibility project. The project will combine Event Based Vision Sensors (EBVS) simulator, from ICNS, with Thales' Spacecraft and Planetary Imaging by Camera Model (SPICAM) / EROSS digital simulator (FES)in Australia. It will: • determine the improvement of the EBVS over existing sensors used in EROSS in high contrast visual environments. • determine performance gains from combined use of EBVS and existing sensors using sensor fusion. Leverage data from EBVS systems on the International 'Space Station 2022-2024 • determine the feasibility of edge processing for object motion prediction systems at the EBVS. The study will impact on the design and capability of the EROSS platforms as they mature, improve the effectiveness of sensor payloads on Artemis missions.	
23/06/2021	Feasibility of a reconfigurable intelligent hyperspectral satellite mission	The project is designed to be a pathfinder to demonstrate intelligent hyperspectral remote sensing capabilities that can be reconfigured in an agile way in-orbit to meet the needs of multiple end-users – commercial, government and research – and to grow Australian space industry maturity to be able to provide for the longer term mission, including interplanetary opportunities The feasibility element will include a detailed analysis of the end-user business case and related mission requirements, an analysis of the on-board AI algorithms needed to perform the demonstrations, a concurrent design study of the technical, schedule and budget feasibility of the project, analysis of the feasibility of the end-to-end payload processing chain, including in-orbit reconfigurability. This work includes elements of Pre-Phase A, Phase A and Phase B activities. The University of New South Wales Canberra Space will collaborate with Infinity Avionics, Ozius, Cingulan, Geoscience Australia and the CSIRO to deliver the project.	
23/06/2021	Space Squad - Female Cadet Camps	Supporting Young Australian's in STEM by using our Space Camps as a way to support the Education Foundation and bridge the gaps. Provide female students in Years 9 – 12 from across Australia the opportunity to launch their dreams into reality. Inspiring a love of learning in a safe environment. Our goal of 100 female students over 1-2 weeks. Our aim is to encourage students to select or continue in STEM subjects during their High School years. The camp will provide the opportunity to be with other STEM enthusiasts and aspiring astronauts. Giving students access to some incredible companies, universities and specialists in their respected fields. To showcase the possibilities. "You can't be what you can't see".	
24/06/2021	Fast Acting Space Transportation (FAST) Demonstrator Mission	The project will investigate and de-risk key elements of the proposed Fast Acting Space Transportation (FAST) Demonstrator Mission. Valiant Space will collaborate with Skykraft to mature Valiant Space's non-toxic in-space thruster, to integrate the propulsion system within a Skykraft satellite bus, and to develop concepts for deep-space mission architectures. Through the project, future Australian missions will have access to sovereign, high TRL, chemical propulsion for deep-space applications, and both Valiant Space and Skykraft will be able develop and expand their commercial operations.	
25/06/2021	Spaceborne robotic inspection and intervention	The project will develop the preliminary design and prototype of a robotic sensor and intervention manipulator package that will undertake asset inspection and repairs for spaceborne operations. Abyss Solutions will partner with the University of Sydney to undertake the project which includes: • identification of anomalies and features according to space inspection standards • COTS sensor studies to identify hardware that fulfils the requirements Undergoing analysis of machine learning algorithms with reduced processing resources • feasibility for intervention strategies based on the expected data • feasibility for potential inspection asset targets, including launch potential • commercial model and business plan development.	
25/06/2021	Early plant stress detection using machine vision for food safety in space	The project will develop launch-ready software, including recommended machine vision sensors for plant monitoring, using laboratory experiments for plant stress and established with collaborators from NASA. Resulting sensor signals will be used to develop monitoring algorithms to complement current sensing approaches used by NASA for advancing the development of sustainable plant-based food production in space. A graphical user interface will be developed to provide a user-friendly dashboard for plant stress monitoring with minimal to no crew interaction. The launch-ready software will be developed with the intention of being deployed in prototype plant habitat payloads on space flights during the mission phase.	
25/06/2021	Remote Sensing using Optically enabled formation flying of CubeSats	The project will perform a conceptual design of the 2Qb mission that includes the design of the two CubeSats, inter-spacecraft omnidirectional optical communicators (ISOC) and an Optical Ground Station (OGT). The University of Adelaide will undertake conceptual studies that investigate formation flying of cubesats through precision proximity control via optical ranging techniques, leveraging technology from optical communications. It will also articulate the synthesis of larger apertures enabled by precision control of CubeSat swarms. The study will assist the University to formulate plans and develop novel scientific instrumentation for earth observation, lunar and martin applications. The developed instrumentation will have potential in civil, commercial and military space applications.	
28/06/2021	Remote Operations for Internal Logistics Handling	The Queensland University of Technology will collaborate with their partners MDA and Australian Remote Operations for Space and Earth on a robotic solution to be used with a pressurized module at the Lunar Gateway to handle internal logistics, remotely supervised from Earth while also having local autonomous operations capabilities. The project will leverage Australia's niche comparative advantage in remote asset management to design and test aspects of the system through a preliminary demonstration.	
28/06/2021	The Australian Universal Payload Solution for International Space Missions	The project will assess the feasibility of a novel and affordable Universal payload Rack System (UPRS) to enable non-standard payloads to be sent into space. Enable Aerospace and their partners Sierra Nevada CORP and RMIT will collaborate to show feasibility of a system that will provide the flexibility of combining payloads of any type onto a single payload rack for installation into a spacecraft such as the ISS, SNC Dream Chaser and the Artemis program modules. UPRS would be developed in Australia by Enable Aerospace using sophisticated Model Based System Engineering (MBSE) and digital twinning techniques, manufactured using 3D printing technologies and space qualified by a flight demonstration.	

28/06/2021	Binar Prospector–low altitude exploration of the Moon for accessible In Situ Resource Utilisation	The project lays the foundation for a lunar orbiter mission – Binar Prospector – that targets the resource potential of the Moon. The Binar Prospector Mission will consist of 2+ 6U cubesats flying at low altitude and using novel COTS payloads to deliver high resolution digital mapping for ISRU exploration of the Moon. The Feasibility project will examine the mission in technical and programmatic detail, to confirm feasible mission solutions; the Demonstrator Mission will be a Prospector spacecraft in LEO, and the Main Mission will take the technology to the Moon. If rideshare options are available there is potential to accelerate the mission to put a Demonstrator into lunar orbit.	
29/06/2021	On-shoring and establishing a modernised local production line	DGPC manufactures & supplies fencing products for industrial, architectural & residential organisations across Australia. DGPC has developed an innovative, Australian-first powder coating process that will require new equipment including a Punching Machine, 300T Hydraulic Press, Pipe Former, 4.2 M Weaver Machine for mesh manufacturing & a range of MIG welding equipment. The new line will employ 9 people. Local production will speed up delivery lead times by removing overseas shipping. DGPC supplies fencing products around Australia including the Metro Rail Project & the Metro Tunnel work in Victoria and product to the ADF, Wind and Solar installations & have identified opportunities within the Space Industry and Resources sector.	
30/06/2021	Space component design, manufacturing and qualification expansion	Through this project, Romar Engineering Pty Ltd will support the Australian space sector by building capability, capacity and expertise to locally design, develop, manufacture and deploy space fluid and motion control products within a vertically integrated manufacturing model. The project will use new and existing technology and equipment to strengthen entry into new local and global value chains and support creation of 18 new jobs.	
30/06/2021	Establishing the National Space Qualification Network (NSQN)	The project will establish the National Space Qualification Network (NSQN) to provide Australia with a world-leading space qualification ecosystem with reach across the IndoPacific region. The Australian National University will partner with the Australian Nuclear Science and Technology Organisation, Nova Systems Australia, the University of Wollongong, Steritech Pty Ltd and Saber Astronautics Australia to accelerate commercially-viable lab-to-orbit space missions and empower adjacent sectors to expand their business into the space domain. The NSQN will deliver on a national vision, provide affordable mission assurance and ensure universal access.	
8/07/2021	Australian Deep Space Optical Communications Ground Station	The project will prototype and test a deep space optical communications ground instrument compatible with NASA's Optical to Orion (O2O) mission: to demonstrate high speed optical communications between Earth and the Orion spacecraft as it orbits the Moon. The Australian National University will partner with Liquid Instruments to build and verify the optical transmitter in the lab. The interface requirements for the full transmitter and receiver system will be defined in preparation for the full system construction. Once complete, this instrument will be equipped to the university's optical ground station, providing Southern Hemisphere ground support for NASA's O2O mission from 2024 onwards.	
9/07/2021	Moonshot Space Elevator 2021	Moonshot Space Company Pty Ltd is a space technology incubator supporting Australian space-tech startups to commercialise new technologies into international markets. Moonshot has close working relationships with organisations across the globe such as US and European space-tech investor networks, space agencies from our own Australian Space Agency to NASA and ESA, and to powerful organisations such as Airbus, Virgin Galactic and SpaceX. Incubator Support Initiative funding will enable Moonshot to upskill and coach at least 20 Australian space-tech startups so they can take advantage of our global networks and build their businesses.	
12/07/2021	Next Generation Phased Arrays for Deep Space Network	The project will conduct a Pre-Phase A study to develop phased array antennas to replace the 70-m parabolic dish within the Deep Space Network (DSN) with a focus on concept studies, trade space exploration, system design, and integration technology implications leading to the development of a concept of operations (CONOPS) for the DSN. The University of Adelaide will collaborate with EM Solutions (Aust), the CSIRO and Altum RF International on the development of a project management plan and consideration of engineering management and risk management. The study will review the technical and commercial aspects to develop a phased array antenna prototype.	
27/07/2021	Australia's first dedicated incubator for space technology start-ups	Saber Astronautics with TCG® Group aim to expand the offered services of the existing successful incubator Wolfpack Space Hub, and further assist existing and new space start-ups to develop capabilities that will help them succeed. The new services will encourage and support entrepreneurs to enter the space industry, develop capabilities and achieve commercial success nationally and globally, and contribute towards the Australian space industry and innovation ecosystem. The grant will boost the effectiveness of the Hub in incubating space start-up companies focused on deep tech manufacturing, like satellites and space robotics, currently is NOT available in Australia. (Wolfpack Space Hub project and plan.pdf attached).	
2/08/2021	Advancing Australia's Carbon Fibre Capabilities for Space and Defence	WTG Pty Ltd trading as CST Composites, located in Ingleburn, NSW, will treble its filament winding capacity by building two new higher capacity machines and onshoring overmoulding capability (vertical integration). The project will include automated fibre placement (AFP) technology, robotic loading and unloading; and automated sensor technology.	
9/08/2021	Digital Upgrades for IntraSpace	A Growth Grant has been awarded to undertake strategic business activities.	
20/08/2021	Space Vehicle Manufacturing Capability for Australian Export	Titomic's (ASX:TTT) project will commercialise the manufacture of space vehicle parts using green titanium, heterogeneous material blends, and high-performance coatings for radiation shielding and hypersonic protection for both Australia's emerging Space Industry, and export to overseas space and aerospace primes. Titomic, with Swinburne University and ANSTO, will conduct extensive testing and validation of demonstrator parts produced within an Industry 4.0 additive manufacturing platform embedded within its Titomic Kinetic Fusion technology. This Additive Manufacturing capability will drive high-value technological and material developments, accelerate Space and Manufacturing sector growth, create high-value jobs, and attract investment.	

20/08/2021	Manufacturing Quantum Sensors for Spaceborne Geomagnetic Survey	This project supports a leading Australian SME, Q-CTRL PTY LTD, to expand into manufacturing novel remote sensing payloads for space deployment, providing a unique opportunity for value capture in the emerging space industry. We will achieve this by establishing a new quantum sensor prototyping facility and new domestic manufacturing capability focused on the remote detection of weak magnetic signatures. Our project will translate research advances in quantum technology into space-qualified hardware suitable for deployment in low-cost "cubesat" satellites at commercial scale. Ultimately, we will develop sovereign capabilities for space, mining, and defence, alongside new manufacturing jobs in space qualification, satellite payloads, and data fusion.	
2/09/2021	SPACE3D – Australian Industrial Rocket Engine Component Manufacturing	SPEE3D (Effusiontech Pty Ltd) has identified the commercial/ industrial launch market as an emerging market for rapidly built, low cost, durable, high performance rocket engines. Space 2.0 companies cannot afford to design a rocket engine for each mission. They need efficiency and specialist supply chains. SPEE3D is known for revolutionary high speed automatic metal part printing technology that simplifies and accelerates metal part production. This project will see SPEE3D validate capability to manufacture nozzles for complex liquid fuelled rocket engines on demand.	
27/09/2021	Novel & environmentally sustainable ultra-high efficiency micro HVAC system	Urbanisation and global warming continue to increase the use of air-conditioning, so a more efficient approach is needed to mitigate its environmental impact. Conry Tech Development (CTD), aligned with NERA's and AMGC's plans, has designed an innovative, decentralised air conditioning system for non-residential buildings named the BullAnt, to deliver a more sustainable future powered by clean energy. The BullAnt is an ultra-efficient micro-chiller, comprised of compact heat exchangers, a micro-centrifugal compressor, miniature water pumps, a novel reversing valve, and unique fan coil units which serve to provide hot or cold clean air, when deployed throughout a building. These innovative technologies, combined with a novel approach to air conditioning, deliver advantages over the most advanced systems. The BullAnt can be powered with clean energy to produce both cooling and heating, reducing the power required for cooling by >50% and heating by >85%. The BullAnt enables this by providing high efficiency electric heat, eliminating the need to burn natural gas for heating, the common practice in most non-residential buildings today. It will utilise refrigerants 1400 times better for the environment and will help limit the spread of viruses such as COVID-19 within HVAC systems. This CRC-P will enable the project partners to build, test, and validate the performance of BullAnt prototypes, optimise the design for cost competitive, advanced manufacturing here in Australia, enabling its rapid global commercialisation. The Cold Hard Facts 2020 report reveals that cooling consumes 24% of Australia's power. Typically, Heating, Ventilation & Air Conditioning (HVAC) consume 60% of a buildings total power, so a 50% energy reduction in cooling could deliver a 30% reduction in a buildings total power consumption. Energy consumption has increased by 0.7% per year in Australia over the past 10 years, and with the commercial sector consuming a large percentage of this. This CRC-P will ready the BullAnt for market, so that once it is widely deployed, this 30% reduction could significantly reduce the load on the national grid. Most HVAC systems today contribute negatively towards environmental change as they use HFC (hydro-fluoro-carbon) refrigerants with high global warming potential (GWP). Whilst more environmentally friendly HFO (Hydro-fluoro-olefin) refrigerants with extremely low GWP scores have been introduced, their current application in HVAC is very limited and according to the CHF-2020 report they represent only 5% of the Australian HVAC market. The BullAnt system has been designed to utilise these HFOs, delivering their environmental advantages to a wider market by allowing them to be utilised throughout most non-residential buildings, even down to very small commercial buildings. This CRC-P will enable UNSW to undertake the research necessary to ensure that our design can effectively utilise these new refrigerants, which once achieved, will help to increase the market share of HFOs dramatically. Finally, the COVID-19 Pandemic has also demonstrated that current HVAC systems are not designed to effectively combat the spread of such viruses. Current designs typically use centralised systems, which pull air from throughout a building before cooling or heating it and returning it to the space. This unfortunately has the unintended consequence of distributing the virus throughout a building even from a single individual, which has undoubtedly contributed to the rapid spread of the virus in these indoor environments. The innovative approach offered by the BullAnt system in decentralising the treatment of air in the building, makes decontaminating the air closer to the source possible. CTD will work with UNSW to develop UVC treatments that could help prevent the rapid air-borne spread of COVID and other viruses. There are a number of additional technical challenges to be overcome to ensure that the BullAnt can deliver so many advantages and improvements over current HVAC systems. For example, the development of an appropriate high-speed drive,	

28/09/2021	Vertiia Powertrain development, for high speed eVTOL Transport	Electric vertical take-off and landing (eVTOL) aircraft will provide a paradigm shift in air ambulance operations, passenger transport, and logistics for a range of industries across Australia. Vertiia's unique design offers game-changing performance in this emerging global industry and is the only concept likely to meet the majority of Australia's needs. Australia is highly reliant on aircraft for efficient and fast transport, emergency services and medical use including patient transport and emergency medical evacuations. The Australian Army additionally has a need for fast battlefield casualty evacuation and cargo transport, that removes the risks of loss to helicopters or their crew from enemy action and removes the risk from improvised explosive devices to Army ground vehicles and logistics personnel. Vertiia is able to meet both civilian and Army passenger, air ambulance and cargo needs. The project will develop an optimised propulsion system for Vertiia that integrates emerging technology high performance motors with state-of-the-art propeller systems and motor controller architectures. An optimised efficient propulsion pod that meets aerodynamic drag targets, provides adequate cooling, and high electrical efficiency with least system mass will be developed to house this cutting-edge drive train. Australia has the third-largest commercial helicopter fleet globally, used heavily by mining, energy, agriculture and medical industry sectors. eVTOL aircraft will replace helicopters, as they are four times quieter, fifteen times more reliable, two times safer and ten times less expensive (Porsche Consulting 2018). Australia is also a high user of air transport, with approximately 60% of all trips less than 1000km. Vertiia has the potential to be the fastest door to door transport option available for trips up to 1000km, whilst simultaneously accelerating the decarbonisation of this hard to abate sector. This project will reduce Vertiia's propulsion system weight and noise, enabling greater payload, or wider use in noise sensitive applications. This will also allow Australian companies to match, then surpass the best technology available globally. The scope of the project is to optimise, build, and certify the full-size propulsion drive train of Vertiia. Optimisation is critical to meet the challenging design requirements. The optimisation includes all propulsion components: propeller, motor, motor speed controller, cooling systems and power distribution. Key activities: -Propeller optimisation to suit developmental high torque motors. Propeller build and wind tunnel test of subscale model. -Optimisation of motor control power electronics for highest electrical efficiency and least mass of combined system including cooling and power distribution -Optimisation of cooling system type (liquid or air), geometry, layout, for minimal drag, and greatest efficiency. Testing of subscale Motor pod designs in a wind tunnel -Build and testing of complete full-scale propulsion pod on a ground test rig -Testing of a full-scale propulsion pod in flight. -Completion of durability testing required for certification of a complete full-scale propulsion pod. -Development of Certifiable Control System architectures, including Autopilot interfaces. -Ongoing Safety Certification Activities The project is constructed so that vital aspects are de-risked as early and cost-effectively as possible. We will partner with the University of Sydney to optimise the aircraft's propeller, which includes digital design methods, and validation using small scale test articles and wind tunnel testing. We will use power electronic waveform simulation techniques to optimise motor power electronics efficiency and cooling system weight and performance. In addition to this we will use safety critical system design tools to exceed reliability and safety requirements, whilst minimising cost of certification. These outputs will feed into further optimisation refinement and the build of the full-size prototype. The project is linked to the Advanced Manufacturing Growth Centre (AMGC)'s Sector Competitiveness Plan. Specifically, our project: -increases	

18/10/2021	Additive Manufacturing of Rocket Booster for Space Launch	INDUSTRY PROBLEM This project aims to address Australia's space industry capability gap being the absence of commercially available, domestically manufactured rocket boosters. While imported rocket boosters are available, the regulatory burden and cost combined with foreign government control on their use are all significant barriers. Filling this capability gap by domestically producing commercial rockets will allow for responsive sovereign space launch to occur. The Additive Manufacturing approach results in substantial cost savings which translate to affordable space access for Australia's emerging space industry. Current generation rocket boosters are manufactured with a cast pour process requiring the entire rocket motor to be fabricated within 8 hours. This requires processing infrastructure that can handle several tonnes of energetic material which is both expensive and dangerous. An inherent weakness in casting is the potential for micro voids to form and if undetected can result in destruction of the rocket and payload. To avoid catastrophic failure from manufacturing defects, the entire rocket must be x-rayed post manufacture and if a defect is identified the entire rocket is discarded. The high costs associated with traditional manufacturing means that small payloads are not cost effective as the primary mission and therefore are typically launched as secondary payloads. This results in the secondary payload occupying a sub-optimal orbit which is dictated by the primary payload. The net effect is either reduced lifespan or only partial mission coverage. SCOPE The scope comprises research and development of new Additive Manufacturing techniques for energetic materials to manufacture modular, scalable, case wound segments to create tailorable rocket booster for space access and statically test fire. KEY ACTIVITIES Key activities that will be undertaken in collaboration with project participants, building on established relationships: - Adapting previous research outputs to inform 3D Printer development from pellet feeding for continuous printing - Characterisation of propellant material performance and optimization to inform the scaling up - Analysis of effectiveness scaling rocket production from small to large modular segments - Implement iterative design, review, characterization and testing - Optical imaging analysis to develop a new technique assessing each layer of energetic material printed to ensure defect free fabrication, eliminating waste material through early identification of density issues. - Development and evaluation of manufacturing techniques for rocket segments - Research into case winding techniques for AM - Static test firing METHODOLOGY This project will use a spiral development methodology through a research, develop, test, assess iterative process. Research engineers will undertake scaled iterative development beginning with small scale rocket motor modular segments and scaling these in size. Through characerisation research and materials property analysis, manufacturing processes will be optimised to inform the next iterative step. This research will focus on the manufacturing process, pellet sizes, formulations of propellant. Research will culminate in static test firing of the scaled rocket booster in order to determine performance. This methodology will benefit from combining complementary skills and facilities between industry and academia, produce high quality research outcomes, solving industry relevant issues. OUTCOMES The production of cost effective, efficient production of large scale modular rocket boosters in a responsive timeframe ready for commercialization. GROWTH SECTORS The project supports the Modern Manufacturing Strategy priorities of Defence and Space sectors. The project facilitates engagement with the Advanced Manufacturing Precinct (AMP) at RMIT underpinned by Australia's leading experts in additive manufacturing. Collaborating with participants to research and develop innovative advanced manufacturing capability for space launch and potential defence applications in

20/10/2021	Underground Mine LoRa Network for Monitoring/Control/Backup/Rescue/Robotics	The mining industry is entering a new era of the "Digital Mine" – data-driven planning, control and decision making which delivers unmatched levels of safety, operational and productivity information along with a shift to higher automation levels. A typical summary is American MSHA underground coal mine wireless communication survey. All available technologies are broadband (high speed) communications, including leaky feeder, WiFi, 4G/LTE or 5G. They are in short range or in very limited locations, expensive, hard to deploy, and due to range and power constraints, not feasible to cover the whole underground mine, and since power cabled communications is required, once a disaster occurs, the communication network is vulnerable and may stop working altogether. It is very necessary to have an independent backup communication network. A long range portable wireless communication for underground mine does not exist but in high demand. For rescue work, "time is of the essence"; deploying a communication network in a quick manner is essential. Furthermore, Robotics for underground mines has attracted much attention. For either routine inspection or rescue work, Robots need a communication network to send the information collected to a mine control room. A new communication technology LoRa (Long Range), brings hope to solve all the problems mentioned above. LoRa can support very long range communication consuming very lower power. Roobuck is confident of the solution, since an initial study by UNSW & Roobuck verified general LoRa signal range can be more than 15km in line-of-sight in open space. Current wireless technologies used in underground mines are all under 100m in open space such as Leaky Feeder, WiFi, BLE and RFID. Such a wireless network can not only form a wireless monitoring and control system, but also can replace existing broadband system as a temporary backup. It also can be quickly deployed for emergencies. Other technology such as underground Robots can significantly boost its applications. Therefore, we firmly believe that LoRa is the future for underground mines, and this program has the potential a first to deploy using this enabling technology. A key feature of LoRa consumes ultra-low power, which allows for the creation of battery-operated devices that can last for a number of years depending on the data rate. Unlike the normal star topology, in underground mines, a chain type network which means nodes are located in a linear sequence is required. Some Australian mines have started initial studies, such as Newcrest. Taking into consideration that LoRa is "maturing", the timing is ideal to "seize the opportunity" for the local and international mining section through this project and is a rare opportunity for the Australian METS sector. Roobuck in R&D collaboration with UNSW and selected industry partners, Roboworks and Newcrest will join forces to develop the world's first LoRa network for underground mines. This LoRa network is based on the line topology which UNSW team has extensive study. This network has comprehensive features beyond a standard LoRa network. LoRa uses a proprietary Chirp Spread Spectrum (CSS) radio modulation technique. We will use this physical layer scheme and create a new protocol to support the proposed chain type network. It addresses special mining application scenarios including achieving full coverage of the underground mine, redundancy for standard networks and mobile networks, using Robot for a fast deployment rescue network; and collect data after a disaster. Based upon reviewing mining opportunities, we will focus on four outcomes: a standard LoRa network to extend existing WiFi network; independent backup of the main network; mobile network for rescue and blasting management. These outcomes include over 10 LoRa related certification ready product offerings: LoRa base Station, LoRa Node, Several LoRa tags for different applications, LoRa protocol converter and LoRa platform. Furthermore, two types of Robots for underground	
20/10/2021	Enabling Manufacturing for Space	The project will support Crystalaid Manufacture (Crystalaid) to purchase and integrate the necessary equipment to meet identified gaps in the testing requirements for the environment of space. This will enable Crystalaid to achieve its international supply chain opportunity and meet the required international space manufacturing standards.	
20/10/2021	Australian Rapid, High-Reliability Satellite Manufacture Capability	The project will support Inovor Technologies (Inovor) to undertake development activity in the manufacture of satellite subsystems. The grant will support Inovor's capability to identify optimal design parameters in the manufacture of spacecraft electronics, and will enhance Inovor's integration and testing functions to manufacture space electronics at identified requirements in reduced timeframes. The development process and augmented technology will support Inovor's ambitions to supply the space supply chain with an offering of rapid, high-reliable and cost competitive satellite subsystems.	
22/10/2021	Manufacturing COPVs for Space Applications	The project will support Gilmour Space Technologies (Gilmour) to improve manufacturing capability and enable the delivery of qualified Composite Overwrap Pressure Vessels (COPVs) to the space industry. Gilmour will collaborate with Griffith University on selecting optimum industrial manufacturing processes for COPVs. The grant will support Gilmour in recruiting new staff, purchasing new manufacturing and testing hardware, and finalising the development, design and manufacturing processes of COPVs, ensuring their ability to meet space industry requirements	
22/10/2021	Responsive Common Use Booster using Solid Rocket Fuel	The project will produce a commercial ready Responsive Common Use Booster (RCUB) using solid rocket fuel for use in the space industry. The focus is on the portion of solid fuel systems driving high-speed, long-range launch vehicles that is within BSA's capability set (i.e. propellant manufacture, hardware design and manufacture), and enables strategic partnership with other space hardware manufacturers around active Guidance, Navigation, and Control (GNC). The grant will support BSA to create 3 FTE high-skilled jobs during the project.	

23/11/2021	Concrete Systems utilising Post-Consumer Recycled Plastic aggregate	Replas and SRE want to build on two years of development, incorporating post consumer recycled plastic into cementitious matrices, (RP-GC). RP-GC substitutes densified waste plastic packaging for mined mineral aggregate in concrete (and includes Geopolymers). We have already developed commercially successful RP-GC products, one is currently being qualified against relevant Australian Standards (subject of an Innovations Connections (IC) grant involving RMIT) specified for use in Victorian roadside sound barriers, the other, concrete pathways, is already being purchased by brands and councils in Australia. The Problem, each year approximately 3.4 million tonnes of plastic is consumed in Australia of which 1.9 million tonnes is soft plastic packaging. Australia's plastics recycling rate is 9.4% so over 1.7 million tonnes of plastic is not recycled (Federal Department of Environment 2017-18). As Australia is mostly unable to send its unrecovered plastic offshore this plastic goes to landfill. The Solution, RP-GC could potentially divert 30% of this soft plastic waste from landfill. A bold claim, however, currently produced and commercially viable RP-GC products contain between 80% and 20% of post-consumer plastic packaging waste, and we know that nearly 30 million cubic metres of concrete is poured in Australia each year (Cement Concrete & Aggregates Australia). If we conservatively use 20% waste plastic as the aggregate content we would use 6 million cubic metres or 5.5 million tonnes of waste plastic (assuming all concrete poured in Australia). We do not expect to gain more than 10% of the total Australian market, but even a 10% market penetration means utilising approximately 550,000 tonnes or 30% of the 1.7 million tonnes of plastic going to landfill, simply by replacing mineral (mined stone) aggregate with waste plastic aggregate for concrete which will be poured anyway. Developing a commercially viable RP-GC concrete is only half the battle. There has been little innovation in this space in terms of inclusion of recycled plastic in concrete due to poor specifier confidence. The Civil Engineering market requires products certified to Australian Standards. To be successful RP-GC products must be certified as compliant to the relevant Standards to overcome the specifier confidence gap and therefore gain the necessary market acceptance. This project will further develop already proven RP-GC products so they meet or exceed the Australian Standards required by specifiers for all targeted concrete applications, whilst researching and developing the recipes to maximise the amount of Plastic aggregate possible diverted from landfill. The testing and development needed to ensure the largest number of applications use the largest amount of RP-GC is beyond the joint resources of both Replas and SRE. We propose to partner with RMIT Civil and Infrastructure Engineering Dept to collaboratively develop the necessary IP and to undertake required research. Once IP has been developed, the next phase is to scale up manufacturing infrastructure necessary to supply that market. Replas will then establish scalable manufacturing processes as necessary for production of the densified waste plastic aggregate. SRE and RMIT will produce compliance and design guidelines and demonstrate systems in commercial applications. Out West Concrete (OWC) will then test products in real-world applications. Replas has engaged with the Advanced Manufacturing Growth Centre in the preparation and process of this submission. Replas has a long-standing and close association with multiple waste collection organisations in Australia, notably the Red Group who operate recycling bins in many major supermarkets around Australia. Red Group will supply all the necessary packing for the trials. The Red Group also oversee the TRACE program, where organisations such as Replas, Kimberley Clark, Officeworks, Johnson & Johnson, PepsiCo and many more commit to the reuse of plastic packaging in their businesses. Replas has close relationships with major Australian and International corporate brands such as	
24/11/2021	Error-robust quantum control for large space-time area atom interferometry	Innovation Connections promotes collaboration between small and medium sized Australian businesses and the research sector to develop new ideas with commercial potential.	

12/12/2021	Advancing Nanoporous MOF Materials for High Efficiency Hydrogen Storage	Background Hydrogen (H2) is globally seen as the ultimate long-term zero carbon dispatchable high density energy storage solution. It is supported by nearly every major player in the global gas, mobility and aerospace industries, and is supported by direct government investment by more than 15 OECD and emerging countries and the EU. Green H2 can decarbonise transport vehicles, industrial and household heating, chemical industry feedstock production and backup power. Australia, Japan, South Korea, the Netherlands, China, Norway, France and Germany are rapidly moving as first adopter countries. Australia's National Hydrogen Strategy places us at the centre of a potential $11 Trillion p.a. global H2 ecosystem by 2050. The H2 economy, however, requires large efficiency gains across the value chain to become cost competitive with solar wind and batteries on a $/kWh basis. A major cost is volumetric and energy inefficiencies of compressed H2 gas (eroding 18% of total energy). These inefficiencies also erode the physical capacities of refuelling stations, and the total energy density, round trip efficiency and reliability of systems. Our Innovation Rux Energy is commercialising breakthrough discovery materials from the University of Sydney (USYD). These materials are advanced nanoporous metal-organic-framework (MOF), in which high-efficiency H2 physisorption radically increases the gravimetric (mass) and volumetric (space) density of dispatchable H2 storage systems. Key Industry Problem A key H2 industry challenge is the high cost and inefficiency of pressurised H2 storage: 1. H2 gas is expensive to pressurise to 700 atmospheres (losing 18% of the energy in just one cycle of compression) 2. High pressure H2 gas requires heavy, expensive and reinforced cylinders to be safe 3. Heavy cylinders increase the weight of vehicles (decreasing gravimetric density) 4. Hardware of both vehicles and refuelling station infrastructure is expensive as high pressure systems require premium boosters, fittings, valves, compressors and safety mechanisms, which can increase refuelling costs by 6-10x. Project Scope (Collaboration of Accelerated Development) A new collaboration consortium has been formed between Rux Energy, USYD, UNSW, ATCO Gas Australia (mobility refuelling hub in WA), AMSL Aero (eVTOL aircraft for regional ambulance) and Hydrogen Systems Australia (HSA; systems integrator), to accelerate commercialisation and validation of these advanced H2 storage materials to deliver impact for mobility and aerospace industries, delivering cost savings for every H2 supply chain participant. Key Activities and Methodology The Project is expected to validate early lab results, progressing the technology readiness level of these breakthrough discoveries from TRL 3 to TRL 7. Materials development, optimising and testing 1. Expand champion materials development. 2. Optimise advanced materials for increased surface area and isosteric heat of adsorption improvements, using computational modelling to support refinement. 3. Test the reliability of the integrated MOF+tank prototype device including and in-situ gas dosing gravimetric/volumetric experiments, powder filtering at the valve, vibrational testing and cycle filling to high pressure, using both high purity and "wet" H2 gas (5% moisture). 4. Test relative outcomes of different macro-morphologies (powdered vs pelletised vs monolith) 5. Optimise prototype build to maximise amount of MOF materials within each cylinder without packing inefficiencies. 6. Use of post-synthetic modification and other crystal engineering techniques to modify and augment H2 storage performance. Manufacturing materials at pilot-scale 7. Development of 50+ kilogram scale manufacturing capability with consistent particle size & materials performance. 8. Optimisation of flow rate and space-time-yield for 50+ kilogram scale manufacturing capability using computational modelling and pilot-scale modifications. Usability and Field Tests 9. Development and demonstration of beta-prototypes in multiple controlled industrial and field settings.	
20/12/2021	Space Teams International SpaceCRAFT Exploration Challenge	Students will participate in a 6 day virtual space competition across 3 platforms to design spacecraft, navigate to another planet, land their vehicle, build a planetary habitat, and explore a new planet to find resources in order to sustain human life. They will learn from subject matter from astronauts, scientists and engineers directly involved in ongoing missions. Lessons include planetary science, spacecraft systems, orbital mechanics & robotic exploration- all aspects of space exploration. The outcome of this program is to inspire our students to pursue STEM subjects and ultimately enable them to join the international community of scientists and engineers working on the space frontier.	
20/12/2021	International SpaceCRAFT Exploration Challenge	The International SpaceCRAFT Exploration Challenge gives students an incredible opportunity to participate in space exploration themselves - virtually. As part of a mission team, students will literally design spacecraft, navigate to another planet, land their vehicle, build a planetary habitat, and explore a new planet to find resources in order to sustain human life. Students will learn from subject matter experts including astronauts, scientists and engineers who are directly involved in ongoing missions as they compete with other teams for the best mission design. Lessons on topics ranging from planetary science to spacecraft systems, orbital mechanics to robotic exploration.	
20/12/2021	International Spacecraft Exploration Challenge	This competition helps students develop a real-world understanding of the challenges and opportunities of space exploration. Direct interaction with a range of former NASA astronauts and other space experts provide students with a theoretical understanding of related engineering concepts and principles. Students are challenged to apply this knowledge to design solutions using a realistic, broad-based simulation program where they are provided instant feedback, and encouraged to continually optimize their results, to achieve the highest score possible.	
11/01/2022	Year Six Canberra STEM Experience 2022 #1	The school aims to send 140 students to Canberra across two weeks to experience real life STEM fields in action. This particular excursion will take 84 of those students. The voyage aims to light the spark of inspiration in the students and show them how STEM is used in a wide variety of industries. We would love to show them Australia's historical involvement in STEM and how our country will be a future leader in these industries. Ideally we would like the students to experience Questacon, the Ian Potter Foundation Technology Learning Centre, Canberra Space Dome and Observatory, Geoscience Education Centre, CSIRO Discovery Centre and a Mount Stromlo Observatory evening tour.	
11/01/2022	Year Six Canberra STEM Experience 2022 #2	The school aims to send 140 students to Canberra across two weeks to experience real life STEM fields in action. This particular excursion will take 56 of those students. The voyage aims to light the spark of inspiration in the students and show them how STEM is used in a wide variety of industries. We would love to show them Australia's historical involvement in STEM and how our country will be a future leader in these industries. Ideally we would like the students to experience Questacon, the Ian Potter Foundation Technology Learning Centre, Canberra Space Dome and Observatory, Geoscience Education Centre, CSIRO Discovery Centre and a Mount Stromlo Observatory evening tour.	

11/01/2022	International SpaceCRAFT Exploration Challenge "Our Place, Our Space"	For more than a half-century, Space Exploration has been an inspirational force in our society toward the development and application of science and engineering.	
11/01/2022	International SpaceCRAFT Exploration Challenge	The International SpaceCRAFT Exploration Challenge gives students an incredible opportunity to participate in space exploration themselves. As part of a mission team, students will design spacecraft, navigate to another planet, land their vehicle, build a planetary habitat, and explore a new planet to find resources in order to sustain human life. They will learn from subject matter experts including astronauts, scientists & engineers who are directly involved in ongoing missions as they compete with other teams for the best mission design. This program will inspire our students in Regional NSW to pursue STEM subjects in school & ultimately enable them to join scientists and engineers working on the space frontier.	
11/01/2022	Arnhem Land Drone Challenge and Ranger Collaboration	To coincide with National Science week, 80 year 5/6 students from Nhulunbuy Primary School will participate in a series of drone tech workshops with the Dhimurru Ranger group. These workshops will link the students with Dhimurru Ranger Group to explore how the new world technology of drones can support traditional knowledge practices of country management, and provide future job opportunities with the employers such as the Arhnem Space Centre and Rio Tinto Gove Operations.	
11/01/2022	Australian Youth Space Expo	Attend the The Australian Youth Space Expo and participate in Robotics challenge 'The Mars Rover'	
19/01/2022	STEM Workshops for Deaf and Hard-of-Hearing Children	Deaf and hard-of-hearing (DHH) children are often socially isolated in their school and community. Being singled out as being different, and not having a supportive peer group is incredibly challenging. This results in poorer quality-of-life outcomes that continue into adulthood such as poorer employment and education prospects. This project will collaborate with the Junior Science Academy and Australian Hearing Hub to deliver a free science workshop for 48 DHH children in Australia. The aim of this project is to provide a healthy communication space to encourage bonds between DHH peers; showcase the ‘gold standard’ in education accessibility; and develop the next generation of scientists with a lived experience of hearing loss.	
1/02/2022	Space-optimised manipulator for in-orbit and rover foundation services	The project will support Blueprint Lab to transfer their advanced robotic manipulator technology into the space domain by carrying out space hardening and space optimisation activities. Specifically, the project will comprise of addressing radiation and thermal requirements, optimisation for launch and zero-g operations, and a comprehensive reliability improvement program. The manipulator will provide a high-performance solution for international space supply chains requiring technology for in-orbit services and rover foundation services.	
4/02/2022	Toolkit for Risk Assessment & UnCERtainty Quantification for Space Missions	The grant will support Stamen Engineering, trading as Industrial Sciences Group (ISG), to develop a novel Space Mission Analytics Toolkit that will improve the accuracy and lower the risk of complex space missions. This Toolkit will facilitate the new paradigm of space missions that have tighter budgets and shorter time frames by reducing simulation time and replacing existing ad-hoc and non-repeatable processes saving significant time and labour cost. The Toolkit for Risk Assessment & UnCERtainty Quantification for Space Missions (TRACER) will reduce uncertainties with spacecraft trajectory design, manoeuvres, low thrust propulsion and reception of tracking data.	
4/02/2022	Modular Imaging Unit (MIU) for Space Applications	The grant will support Infinity Avionics (IA) to advance Modular Imaging Unit (MIU) for space applications. The aim is to provide customers with off-the-shelf, plug and play imaging sensors for Earth observation, space-based space-surveillance, lander and rover missions. The modular nature of the proposed system enables mixing and matching of optical units and image sensor options to suit the target application.	
8/02/2022	QuantumTX Australia	A structured incubation program delivering capability building, investment attraction and opportunities in the international space & technology sector for Australian tech startups. Expanding the Australian space sector ecosystem by accelerating regionally-based or first-generation migrant Founders to Start Something, and incubating scale of tech startups from automation, remote operations, robotics and computing to Fast Forward their startups into international space sector supply chains. The project includes workshops, mentoring, online training portal access, space sector industry speed-dating and networking, and a number of international space & technology forums and showcase events.	
21/03/2022	Swinburne Youth Space Innovation Challenge 2022	The Swinburne Youth Space Innovation Challenge in Schools competition is focussed on giving senior science students the opportunity to take a real world look into the space sector and its applications. This project would allow a group of students to develop their understanding of Space, design and pitch a micro-gravity experiment and potentially, send an experiment to the International Space Station. Involvement in this challenge will support us in raising aspiration and participation in STEM pathways at Myrtleford P12 College and in our local, regional community.	
23/03/2022	International SpaceCRAFT Exploration Challenge	The International SpaceCRAFT Exploration Challenge allows students to virtually participate in space exploration. As part of a mission team, students design spacecraft, navigate to another planet, land their vehicle, build a planetary habitat, and explore to find resources to sustain human life. Students learn from subject matter experts including astronauts, scientists and engineers who are involved in ongoing missions as they compete with other teams bringing all aspects of space exploration to an understandable level for young students, who learn by doing and creating. This program aims to inspire young Australians to pursue STEM subjects in school and join the international community working on the space frontier.	

28/03/2022	Seeing Things Differently: Uses of Glass in X-ray Technology and Innovation	How does X-ray imaging work? How is it different to photography? And how will it change in the future? Find out about X-rays and see the high-tech equipment involved, without breaking an arm or leg. This series of events will give people the opportunity to see inside Adelaide's Micro-X factory, which develops and produces new generation X-ray imaging equipment incorporating innovative design and carbon nanotube technology. There will also be a family day with science-based workshops, high-voltage demonstrations, an augmented reailty treasure hunt, and walking tours of the surrounding Tonsley Innovation Precinct. Project/event location: SA What is the value of urban forest? University of Adelaide Help make Adelaide a greener space and learn how trees benefit your community. Through a series of workshops, participants will discover how to measure scientific tree values and monitor the growth of a tree from seedling. The plan is to significantly revegetate Greater Adelaide which will reduce carbon pollution, improve the local climate and increase the biodiversity within our cities. This project will teach participants the many ways trees can benefit urban settings and what it means to be a citizen scientist. Project/event location: SA	
28/03/2022	Australia BLASTS into National Science Week 2022	Be part of Australia's largest cooperative rocket launch to celebrate the start of National Science Week 2022. Registered groups across the country will simultaneously blast their own rocket from their yard, street, or local park. The event will involve a 60-minute online broadcast where participants will learn about the science behind launching rockets, the establishment of the Australian Space Agency and our emerging aerospace industry. Rocket kits can be purchased for a low fee in the months leading up to the event. They will contain everything needed to build and launch the CO2-powered rocket, including a pair of safety glasses and National Science Week goodies. Learn the science, build your rocket, and watch it fly. Project/event locations: QLD & online	
29/03/2022	Sound & Vision: Sci-Art on Ocean and Ice	What would colour sound like? What does the world under the ice-caps look like? Science communication and podcasting outfit Go2Curious presents two online opportunities to view the natural world through the lens of science and art. In 'The Sound of Colour', NASA Oceanographer Ryan Vandermeulen takes satellite data from space-borne sensors that detect the colour variations in the oceans. Instead of turing these into a picture, he translates the colour variations into audio wavelengths to create an aural experience – a unique spectrum of musical notes. In 'Fathom Antarctica', journey to Antarctica with scientific illustrator Kirsten Carlson on a guided one-hour virtual field sketching adventure above and below the ice. Dive, sketch, explore, quiz and question with science, sound and vision expert presenters. Project/event location: Online	
31/03/2022	Digital Behavioural Medicine Pain Management Programme	Amelio Health Pty Ltd was established two years ago with female-dominated leadership and investment to bring a revolution to the practice of pain management in the insured / post injury space. We saw a way to connect with clients struggling with chronic pain and trying to navigate the insurance process, in a way that had never been done before, and in a way clients felt in control of their health. This project involves accelerating the evolution of our basic service to deliver a more advanced evidence-based behavioural digital pain management programme and rehabilitation consultants practice support / professional development pain education, domestically and expanding into international markets.	
1/04/2022	Another Antarctica: Envisaging Antarctic Futures	Antarctica affects the global climate and climate change is affecting Antarctica. For most people, it's an alien landscape, but it's also full of life and a vital barometer for climate change. Another Antarctica: Envisaging Antarctic Futures is an interactive exhibition that presents Antarctic science, policy and different perspectives in a gallery space. It brings researchers and artists together to imagine potential futures for this important ecosystem. Guests will learn about Antarctic research with a series of interactive presentations and workshops within the gallery. Children and teenagers can also discover Antarctica on their own with hands–on scientific and artistic activities run by scientists and artists. Project/event location: NSW	
4/04/2022	What is the value of urban forest?	Help make Adelaide a greener space and learn how trees benefit your community. Through a series of workshops, participants will discover how to measure scientific tree values and monitor the growth of a tree from seedling. The plan is to significantly revegetate Greater Adelaide which will reduce carbon pollution, improve the local climate and increase the biodiversity within our cities. This project will teach participants the many ways trees can benefit urban settings and what it means to be a citizen scientist. Project/event location: SA	

3/05/2022	Development of the GenX Betavoltaic Battery Pilot Manufacturing Process	~~Industry problem to be solved The space and defence industries consider the absence of effective remote power generation options a key~~ limitation to capability and asset availability. A long-life, reliable, maintenance and fuel-free power system to low earth orbit, lunar and deep space applications is critical for enabling the next phases of space utilisation and exploration. PhosEnergy Limited (PEL) and its partners aim to provide an energy solution that can address both the long-term, low-maintenance power requirements of the space and defence sectors. This can be achieved by PEL's recently developed and patented betavoltaic battery (GenX) which uses novel semiconductor-metal electrode materials, producing constant power over long time frames. The GenX battery can replace incumbent remote power sources with a simple, safe and effective generator that supplies constant DC power for up to several decades without the need for refuelling or recharging. While space and defence are the primary focus, similar challenges will be addressed by GenX in terrestrially deployed remote sensors and communication equipment in a civilian context. Scope This Project will create a nuclear battery skills capability platform, then leverage it to consolidate PEL's GenX design and progress to the development, commissioning, and validation of a capable pilot manufacturing process that can produce battery prototypes. Key activities • Develop a design for manufacture, incorporating flexible semiconductors, electrodes, beta-emitting radioisotopes and battery casing • Conduct radiation shielding and thermal simulations to feedback into the design • Develop a radioisotope sourcing strategy • Perform model simulation of the betavoltaic battery, the design of its power conversion circuit and energy management system • Education activities, including reciprocal staff exchange, enrolment in UoA's Graduate Certificate in Radiation Management (GCRM), joint industry-academic publication & communication of results • Design and development of a prototype manufacturing process, and commissioning and validation of the pilot facility in UoA's Type B radiation laboratory • Validate off-process prototypes in industrially relevant environments for the Space and Defence sectors • Conduct a Type A radiation facility feasibility study and develop a manufacturing concept for GenX commercialisation The Project will build upon the IP owned by PEL and knowledge gained from previous Innovation Connections Projects (ICG001320 and ICG001479) that established the battery at TRL4. Methodologies The Project will be led by PEL as the lead industry partner utilising industry-standard planning principals to ensure the GenX battery is designed for manufacture and suitable for validation. A key methodology will be PEL engineers embedded with university partners to foster collaboration, facilitate clear communication and knowledge transfer, and drive the project toward its outcomes. This CRCP Project creates the opportunity, scope and scale to bring together partners with specific skillsets for a synergistic collaboration. The Project will leverage the know-how of UniSA's Future Industries Institute (FII), who has a track record in undertaking industry-led and outcome-focused collaborative research. Subject experts at UWA's School of Engineering who are part of the Future Battery CRC will apply expertise in mathematical modelling to optimise the battery's power conversion circuit and energy, heat transfer, and waste heat management systems. While PEL will use its nuclear industry network to create a radioisotope sourcing strategy, the UoA's Prescott Environmental Luminescence Laboratory/Centre for Radiation Research, Education and Innovation (PELL/CRREI) will leverage their expertise in the nuclear sciences to host the location of the pilot process and develop radionuclide loading techniques. The Andy Thomas Centre for Space Resources (ATCSR) will provide suitable testing capabilities. The development of a skills capability platform will be critical for the Project, with	

3/05/2022	Integrating Quantum Tech into Space Manufacturing for Defence & Agriculture	This project will develop novel remote sensing payloads leveraging quantum sensing as an enabling technology, addressing the top opportunity of the Space National Manufacturing Priority roadmap. Our effort enables technology development that captures the small-satellite opportunity while meeting strategic & defence needs. Further, by focusing on the application of remote measurement of water, we will deliver high-value capabilities to support Australian agriculture. These outcomes are enabled by translating research knowledge from academia to industry. The predicted global market for remote sensors is $332Bn by 2025, with an opportunity for a $19Bn/yr quantum sensor market in 2024 [CSIRO]. Our team provides the critical combination of expertise to realise novel quantum sensing approaches that unlock previously impossible applications - like persistent low-earth-orbit gravity survey in cubesats. Our SME-led team will focus on three industry problems: 1) Remote high-sensitivity hydrological measurement is essential to safeguarding agriculture against drought and the potential impacts of subsurface mining or changing ocean currents. While gravity survey can provide essential data to help build robustness against emerging threats in defence, or drought resilience, no persistent commercial satellite-based gravity surveys are currently available. 2) Existing technologies for space-based gravimetry are based on large, cost-prohibitive spacecraft each costing hundreds of millions of dollars. There is an urgent industry need for novel approaches to develop and operate sensor payloads able to deliver space-based gravity survey compatible with modern low-cost satellite constellations. 3) Quantum sensors using cold atoms exist in labs around the world and have demonstrated world-record measurements of gravity. Unfortunately, performance is typically degraded by >1000X when deployed in realistic field environments, limiting industry uptake. Further, most research-grade instruments are too large for space-constrained satellite-based applications. Quantum sensors based on cold atoms enable the detection of very small changes in the Earth's gravity field. These changes can be linked to variations in ore deposits, changes in groundwater levels, or the presence of underground hidden targets. Quantum sensors are well validated in lab environments, but require substantial miniaturisation and ruggedisation for satellite deployment. Simultaneously, space-based remote sensing technology for hydrology has been limited to NASA/DLR and ESA scientific missions. We propose to develop space-ready subsystems for deployable space-based quantum sensors, informed by academic expertise in geophysical survey. We will target a >10X reduction in hardware size & weight in the essential subsystems and validate achievable performance in satellite constellations via simulation. This leverages the expertise & know-how in space-qualified atomic sensors & space-based gravimetry held at ANU, proprietary laser system miniaturisation technology from MOGLabs, & quantum control methods for atom-sensor operation & automation developed by Q-CTRL. Our team will develop and integrate novel technologies, automation tools, & know-how to optimise small-form-factor optical & atomic subsystem performance, reduce manufacturing costs, & allow broad deployment in small satellites. The project is structured around 5 milestones and associated Areas of Activity for monitoring performance & risk and identifying success: AoA1 Small-form atomic sensor subsystem design and development AoA2 Constellation-based gravimetry simulation AoA3 Quantum-control-defined atom interferometer operational mode design AoA4 Optical subsystem miniaturisation AoA5 Integrated subsystem test and validation This new technology will directly and indirectly benefit the space, defence, mining, & food sectors. Space and defence will gain access to new space-based remote sensing capabilities for geospatial intelligence, supporting the Australian	

5/05/2022	DART CMP Airframe: A composite reusable hypersonic platform	The Hypersonix DART CMP Project will deliver a flight ready UAV that can be used with the SPARTAN scramjet engines to demonstrate the capabilities of a re-usable hypersonic platform. USQ USQ is currently the most advanced university in the field of high temperature composites materials. Hypersonix and USQ have signed a framework agreement for the joint development of high temperature composites suitable for the Aerospace sector and providing a sovereign manufacturing capability for Australia. In addition, USQ will provide the necessary clean room for the Oxide-Oxide ceramic composite processing at USQ. Romar Engineering The composite aeroshell will require a high temperature alloy airframe to provide necessary structural strength. Romar Engineering will use the latest 3D printing/ Additive Manufacturing techniques with high temperature alloys to produce the airframe. LSM LSM will build a light weight, high temperature aeroshell and other composite components based on a new Oxide-Oxide ceramic composite processing developed in conjunction with USQ. This will be the first capability of its kind in Australia, and an important future sovereign capability for the aerospace and space sectors The DART CMP project will comprise 10 work streams: (1) System Design (2) Airframe Chassis Build Design (3) Aeroshell Build (4) Wing, Tail and Aileron Design and Build (5) Airframe Mechanica & Electrical Subsystems Design and Build (6) UAV Avionics, Remote Control and Vehicle Guidance System Design and Build (7) First stage booster interface design (8) System integration and Test (9) Regulatory Framework for Hypersonic UAV in Australia (10) High Temperature Composites Sovereign Capability Hypersonix will work with USQ and our industry partners with a view to increasing Australia's Sovereign manufacturing capabilities in the Aerospace sector. Our approach is to pivot companies with an established manufacturing capability to the Space Sector. LSM and Romar Engineering are our industry partners for his project and bring key technology expertise that can be pivoted from domestic industrial capability to the Aerospace sector. Hypersonix world leading expertise is in the Space sector and hypersonic vehicle design and scramjet technology. Under our 'New Space' model we will not 're-invent the wheel' but rather pivot existing technologies for Space applications. Examples include the use of High-Pressure Hydrogen Gas tanks from the automotive sector for our hydrogen fuel tank. Not only does this provide a cost effective, low risk and rapid solution, it also addresses regulatory compliance and refueling infrastructure issues. We will use the same approach for the DART CMP project, pivoting existing UAV, avionics and flight control systems, IMU, telemetry, GPS and other Industrial design capability from existing Australian businesses for use in the construction of the DART CMP flight prototype. USQ will deliver the prototype manufacturing of oxide-oxide ceramic matrix composites for the DART CMP. The proposed project will rapidly scale up the technology readiness level towards commercial production of low-cost oxide ceramic matrix composites, supporting the growth of Australian Space industry and Aerospace Sector. The process to make oxide-oxide ceramic matrix composites involves cost sensitive alumina fibre rovings and the associated innovation opportunities in material thermal processing and net-shape fibre preforming. The material processing specifications of oxide-oxide composites are currently export controlled by the US. Research partner, USQ, and industry partner, LSM, will build upon their existing expertise high quality CFRP (Carbon Fiber Reinforced Polymer) manufacture and pivot this to the manufacture of oxide-oxide composites that can withstand more than one thousand degrees Celsius. Romar engineering will help with their Additive Manufacturing/ 3D Printing expertise including experience gained by key staff working with SpaceX. The DART CMP Project will serve as an industry catalyst in bringing together these	
17/05/2022	Upgrading advanced attitude determination and control systems (ADCS).	This grant will enable Skykraft to service both domestic and international civil and defence markets and supply various high technology level opportunities including optical remote sensing by growing the capability of Skykraft's sovereign, in-house designed spacecraft platform. By developing Skykraft's existing proprietary Attitude Determination and Control System (ADCS) into a high fidelity and accurate pointing system, Skykraft will be able to meet significant global New Space Market needs, which are adjacent to its core business of Air Traffic Management.	
17/05/2022	TinySpaceML Platform for Edge Computing in Space	The project will support EvokeEdge (also known as Fortifyedge) in delivering Trusted Autonomy for human performance & Zero Trust Security utilizing Tiny Machine Learning in a low/no gravity environment utilizing on-board edge computing for inference and training. Collaborating with Thales Space JV and Microsoft Azure.Space the project will focus on delivering Tiny Machine Learning Operations (TinyMLOps for Space) for edge computing in support of Astronaut Identity, Status and Safety.	
18/05/2022	Design, Construction & Commissioning of a Mobile Launch Rail	The project will support SouthernLaunch.Space (Southern Launch) to complete the design requirements of a world-class mobile launch rail, contract out construction of the rail and undertake commissioning of the rail. The mobile launch rail will cater for a range of rocket designs and be used to launch sub-orbital vehicles ranging in mass from 20kg to 3,500kg. The rail will be project managed in Adelaide and the manufacturing will be awarded to local companies based on a competitive tender process. The launch rail will be mobile to enable Southern Launch operations at either of its South Australia sites: Koonibba Test Range, or the Whalers Way Orbital Launch Complex, and is expected to be ready for use by September 2022.	
18/05/2022	Delivering a Sovereign In-Space Propulsion Capability	This project will enable Valiant Space to deliver non-toxic propulsion to domestic and international customers. The project will focus on three main areas: fly, scale, and deliver. Valiant will conduct two demonstration spaceflights of the VS-1 non-toxic thruster hardware during the project. Production capabilities will be upscaled using AS9100D processes, procurement of manufacturing assets, and verified by a pathfinder production run. Customer support materials will be developed, prior to initial VS-1 delivery after project completion. The project will conclude with the end-to-end establishment of a sovereign, non-toxic propulsion supply chain capability.	
7/07/2022	Quantifying Quality: Designing Urban Space through Qualitative Data Sets	Innovation Connections promotes collaboration between small and medium sized Australian businesses and the research sector to develop new ideas with commercial potential.	
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18/10/2022	Additive Manufacture of Semiconductors	Through this project, Alfatron Pty Ltd will enhance its capability with a new additive manufacturing technologies for the production of prototype semiconductors. The use of new additive manufacturing techniques will allow semiconductor manufacturing to occur on a small scale without the significant investments associated with semiconductor fabrication plants. Alfatron will provide support to high value industries such as Defence, space, aviation and the health care sector where small volume runs are needed.	
18/10/2022	Additive Manufacturing of MEMS Sensors	Through this project, DefendTex Research Labs Pty Ltd will expand its manufacturing services to include the capability to fabricate Micro-Electrical Mechanical Systems (MEMS) sensors. MEMS sensors are critical for the operation of a vast array of devices which are essential to the medical diagnostics industry, defence industry, aerospace, telecommunications, transportation and mining industries. Currently, the manufacturing of MEMS sensors is concentrated in Taiwan and the USA and there is no current manufacturer of MEMS in Australia, leaving our supply chain vulnerable to disruption.	
21/10/2022	DART AE Multi-mission Hypersonic Drone Technology Demonstrator	Hypersonix Launch Systems Ltd (HLS) is an Australian owned aerospace engineering company specialising in the design and build of scramjets and hypersonic vehicles. Through this Modern Manufacturing Initiative project HLS will demonstrate Australia's sovereign capability in the manufacture of a hypersonic multi-mission test drone technology demonstrator using additive engineering. The project will build and launch a hypersonic multi-mission test drone.	
7/11/2022	Sovereign Manufacturing Automation for Composites (SoMAC) CRC	The composite materials market is a large and rapidly expanding sector of the global economy, with a compound annual growth forecast at 7.6% (2020 to 2027) and reaching USD $160.54 billion by 2027 (per Grand View Research). Much of this growth is driven by high value-added composites, which is three times the scale of the supply of composites materials. The goal is for SoMAC to capitalise, through innovation and skills uplifting, on growing demand and build on our base in niche applications to sustain Australia's long-term competitive advantage. It will do this by reducing import dependency, penetrating export markets, increasing sustainability, shortening prototyping lifecycles, and creating an accelerated automated composites manufacturing capacity. SoMAC will build on the success and esteem of the academic partners for up-skilling the next generation of composites technologists through a multifaceted education and training program. Over-reliance on labour-intensive manufacturing, lack of access to international supply and open markets, and high materials transport costs have all suppressed our presence in the global composites economy. Australia's barriers combine to disproportionately affect low-volume industry, particularly SMEs and cash constrained start-ups, which will require automation, robotics and digitisation to be competitive. Australia remains a notable player in high entry barrier global composites markets including aerospace and defence, already manufacturing high performance composite components such as structures for the Boeing 787 Dreamliner and the F-35 Joint Strike Fighter. Uptake outside these sectors has been slower, requiring Australia to reposition with next-generation cost and technology competitiveness. SoMAC CRC's vision is "to transform Australia's established composite technologies capability into a world-class, highly automated, digitally-enabled, network of designers, manufacturers and service providers". This will enable a step change in Australia's manufacturing competitiveness, build sovereign capability and capture the rising demand for just-in-time localised composites innovations, automation, and digitisation. The SoMAC consortium is strong, featuring industry members from key Australian manufacturers, their supply chains and service providers. The research partners leverage pre-existing composite research centres at the main academic nodes across five Australian states and territories (QLD, NSW, ACT, VIC, WA). The cornerstone facilities at Carbon Nexus (Deakin), the Centre for Advanced Materials Technology (University of Sydney) and the ARC Training Centre for Automated Manufacture of Advanced Composites (AMAC) at UNSW also provide a mature leadership model for SoMAC in terms of governance, education & training, industry collaboration, project execution, IP management and commercialisation. SoMAC will significantly up-scale and leverage these existing Australian Federal Government investments, providing excellent value for money. To optimise research translation, SoMAC will be industry-led and focus on accelerating the Technology Readiness Levels (TRL) of existing and new technologies within the consortium. SoMAC's approach lowers barriers spanning the composites development lifecycle, from material design to product realisation. The research programs embedded in SoMAC spans across four integrated programs capturing the current industry challenges faced in Australia. These research programs are: High Performance Composites Materials (RP1), Manufacturing Processes (RP2), Simulation and Performance Prediction (RP3), and Design and Integration (RP4); and are deliberately structured vertically to maximise interactions between the project participants. SoMAC Programs combine to maximise multi-sectoral benefits, up-skilling Australia's sovereign capacity to higher value-added outcomes; at the same time de-risking and enabling future industry access to advanced automation, simulation and digitisation. SoMAC is aligned with the Advanced Manufacturing Growth	
14/11/2022	Greenbushes Tantalum Recovery Plant 3	Global Advanced Metals Greenbushes' (GAM) project opportunity is to include a Tantalum Recovery Plant (TRP) to the front end of Talison Lithium Pty Ltd (TLA) third Greenbushes chemical grade plant, that will extract tantalum (Ta) and tin (Sn) from the spodumene rock that would otherwise be permanently lost without a TRP. The Ta and Sn concentrate from the TRP will be further upgraded at the GAM Secondary Processing Plant, which is also located at the Greenbushes mine site in Western Australia. The upgraded Ta will be sent as feedstock to GAMs manufacturing facilities in the United States and Japan to be turned into end-products that are used within the electronics/semiconductor, aerospace, defense, medical and automotive industries.	
25/11/2022	Development of an integrated welding centre for advanced steel alloys	Marand Precision Engineering Pty Ltd (Marand) provides engineering solutions in the aerospace, defence, and rail industries based in Moorabbin, Victoria. Through this project Marand will implement an integrated welding centre, in their Geelong facility, with hardware, software and ancillaries to weld advanced alloys including high-grade ballistic steels for modern military vehicles and ships.	
20/12/2022	Automated manufacture of carbon composite structures for space applications	Through this Modern Manufacturing Initiative project, GrapheneX Pty Ltd will partner with New Frontier Technologies (NFT) Pty Ltd to design, develop and prototype high-performance carbon composite structures for space launch vehicles with embedded communications functionality. The project will utilise automated additive manufacturing technology and 3D printing to prototype launch vehicle components using novel isogrid composite structures coupled with integrated antennas and electronics for space launch telemetry and tracking.	

16/01/2023	Digital Twin API for Sustainable Operation of Spacecraft at Scale	Space Services Australia Pty Ltd T/A Nominal Systems has developed a satellite digital twin desktop product that simplifies design, testing and operations of sophisticated space systems through system-level simulation. Accelerating Commercialisation support will be used to help Nominal Systems run a commercial product trial with an industry partner in the area of space traffic management before releasing the platform to space industry customers globally.	
23/01/2023	Secure spacecraft manufacturing facility	This Modern Manufacturing Initiative project will upgrade and expand Inovor Technologies Adelaide operations. It will procure equipment for the manufacture and test of space electronics and solar panels and expand the size of their current electronics test & integration labs and clean rooms to accommodate larger spacecraft. It will enable the batch manufacture of smaller cube satellites for Defence and commercial customers.	
25/01/2023	Prototype and test of a variety of designs for a hydrogen-powered reusable space launcher.	Innovation Connections promotes collaboration between small and medium sized Australian businesses and the research sector to develop new ideas with commercial potential	
25/01/2023	Development of Sovereign Space Wiring Manufacturing Capabilities	This Modern Manufacturing Initiative project consists of the purchase, installation and commissioning of necessary infrastructure, equipment and information technology systems and achieving relevant accreditations and certifications to supply satellite manufacturers. The Project will employ up to 40 skilled, long-term positions and create further positions in its Australian supply chain. Cablex will build on established R&D relationships with Academia and collaborate with growing Australian space industry leaders to enhance future hardware performance and integrity in space environments.	
10/02/2023	A Launchpad for Women: Promoting Geospatial+Space careers to Female Youth	The geospatial industry in Australia is experiencing significant growth underpinned by increasing demand for geospatial data, with data and digital skills dominating the fastest growing emerging skills across the economy. However, numerous reports point to the looming skilled labour shortfall. This proposal brings together and builds upon successful programs that target girls in late primary school and into secondary school, to foster a stronger connection to the geospatial and space sectors. It takes already successful initiatives, and forms a collaborative ecosystem connected to industry, research, and education to develop a pipeline of girls excited about and ready to build an education and career in the space and spatial industry.	
16/02/2023	Women of Colour in STEM: Fixing a Leaky Pipeline	This project aims to drive lasting systemic change by supporting Women of Colour (WOC) to overcome the intersectional barriers of gender and racial bias to increase the participation of WOC in STEM education and careers and increase their representation in STEM decision-making positions. It will see the expansion of the successful STEM Sisters program in Victoria to provide more Women of Colour (WOC) across Australia with STEM Sisters' high impact programs to support WOC at all levels of their careers in STEM. Key activities are career development and mentoring programs, and the creation of a network that connects WOC in STEM to each other, to career opportunities and provides a safe space to foster a sense of belonging for WOC in STEM.	
5/04/2023	Global Space Challenge 2023	Global Space Challenge 2023 is based upon NASA mission architecture concepts and simulated with high fidelity models of the planets, solar system and physics of space travel, this program teaches students about science, technology, engineering and mathematics through their application to Space Exploration. As a virtual 'space camp,' the Global Space Challenge will develop the knowledge, critical thinking skills and teamwork required to design and experience a space mission.	
5/04/2023	Accessible STEM Workshops for Deaf and Hard-of-Hearing Children	Deaf and hard-of-hearing (DHH) children are often socially isolated in their school and community. Being singled out as being different, and not having a supportive peer group is incredibly challenging. This results in poorer quality-of-life outcomes that continue into adulthood such as poorer employment and education prospects. This project will collaborate with the Junior Science Academy and Australian Hearing Hub to deliver a free science workshop for 48 DHH children in Australia. The aim of this project is to provide a healthy communication space to encourage bonds between DHH peers; showcase the 'gold standard' in education accessibility; and develop the next generation of scientists with a lived experience of hearing loss.	
5/04/2023	Canberra STEM Tour 2023 Group #1	The school aims to send 140 students to Canberra across one week to experience real-life STEM fields in action. This particular excursion will take 84 of those students. The voyage aims to light the spark of inspiration in the students and show them how STEM is used in a wide variety of industries. We would love to show them Australia's historical involvement in STEM and how our country will be a future leader in these industries. Ideally, we would like the students to experience Questacon, the Ian Potter Foundation Technology Learning Centre, Canberra Space Dome and Observatory, Geoscience Education Centre, CSIRO Discovery Centre and a Mount Stromlo Observatory evening tour.	
5/04/2023	International Space Settlement Design Competition and Tour	This funding will support 7 students from St Aidan's AGS, accompanied by two teachers, to participate in the International Space Settlement Design Competition for which they have qualified. The competition will take place at the end of July 2023 at NASA's Kennedy Space Center in Florida, USA, and be preceded by a 2 week tour of technology and aerospace organisations and exhibits. At the competition they will compete with students from all around the world in a simulated engineering experience, to develop a proposal for a space facility. It is hoped that the opportunity to network with like-minded students and be mentored by NASA engineers will encourage more of our girls to consider a future STEM career.	
6/04/2023	Global Space Challenge	In this international event, students compete against students from several nations to design a realistic space mission to one of the outer planets. Students have access to real NASA simulation software that has been used in past mission. A new challenge is introduced each day of the comp week (eg. spacecraft design, plotting interplanetary orbits, and designing a functioning habitation module, etc.). Students are provided tutorials by astronauts and aerospace engineers on topics relevant to the day's particular challenge. Students continuously optimise their results throughout the competition. During 2022, teams from our school placed 1st and 2nd in the world and have inspired several other students to compete in 2023,	

12/04/2023	Global Space Challenge	The Global Space Challenge gives students an incredible opportunity to participate in space exploration themselves. As part of a mission team, students will design spacecraft, navigate to another planet, land their vehicle, build a planetary habitat, and explore a new planet to find resources in order to sustain human life. They will learn from subject matter experts including astronauts, scientists & engineers who are directly involved in ongoing missions as they compete with other teams for the best mission design. This program will inspire our students in Regional NSW to pursue STEM subjects in school & ultimately enable them to join scientists and engineers working on the space frontier.	
14/04/2023	Make the Maker: Inspiring Youth to Engage in STEM Pathways	The Make the Maker project will provide workshops for regional students to participate in interactive maker & tinkering activities that will develop knowledge and skills on design ideas across a range of STEM technologies. Makerspace workshops for students in early childhood and primary years will inspire them to become interested in STEM. Workshops for secondary students will include information about how to enrol in STEM related university programs, as well as introduce them to local industry leaders for potential career advancement. In addition, students will engage in a one day design challenge workshop to develop solutions to student-identified social and environmental problems using the equipment in the makerspace.	
17/04/2023	Launching community space innovation from regional South Australia	The project will introduce an exciting space-related STEM curriculum to schools and make the wonders of space exploration more accessible for the communities in the Eyre Peninsula region in South Australia. In addition it will provide professional development for teachers, engagement with parents and information and communication channels for the local community. The project will harness children's natural interest in space exploration to increase their understanding of space disciplines as well as information about career opportunities and pathways, and the space-related projects happening in the region.	
18/04/2023	(Plant) Life on Mars	Together with Space education experts, plant biology researchers, engineers, undergraduate mentors and teachers, students will design and run projects to achieve a Space mission. Embodying STEM skills the project aims to attract students into STEM careers in Space, Agriculture and Food industries. The space mission places students in the year 2030 where an international group of astronauts has just landed on Mars. To support health and wellbeing on this long-term mission, fresh and tasty plants are grown in carefully monitored Space labs. Astronauts carefully monitor resource supply and demand for sustainable production. A meteorite storm requires the plant-bot to pick and deliver the food to astronauts but can it make it through the Mars terrain unscathed?	
21/04/2023	Foundational Australian Moon-to-Mars Services	Zangold (trading as EPE), together with Lunar Outpost Oceania, has formed a project consortium of leading Australian industrial, academic, and scientific institutions to deliver the Foundation Services Demonstration planned for Australia's first Lunar Rover. The project aims to deliver a cost efficient, rapidly deployable, minimum-risk Rover solution leveraging Lunar Outpost's high-TRL MAPP rover platform, which will already have visited the lunar south pole before the Trailblazer Preliminary Design Review. This cross-disciplinary teaming arrangement directly supports the Australian Space Agency's goals of creating skilled jobs, increasing national space capability, forming key partnerships, and inspiring a future workforce.	
9/05/2023	Australian Space Manufacturing Network (ASMN)	The Australian Space Manufacturing Network (ASMN) is a $157 million project that will establish a national network of businesses, universities and research organisations dedicated to advancing space technology development and manufacturing in Australia. It is centred around a Common Use Facility in Queensland that will enable commercial-focused collaborations and activities that help participants move towards higher value-added segments of the manufacturing 'smile curve' – from R&D, to prototyping and manufacturing, to launch. ASMN partners will develop, manufacture and launch Australian launch vehicles and satellites, create long-term jobs and revenues, expand interstate and international trade and investment; and position Australia as a globally respected space nation.	
9/05/2023	AROSE Trailblazer Lunar Rover	AROSE will deliver a preliminary design of Australia's first Lunar Rover which will support NASA's Artemis program. The Consortium will develop the mission concepts, the mission and system requirements, and the preliminary design of the Lunar Rover guided by NASA and the Australian Space Agency mission objectives.	
22/05/2023	Suborbital Launch Vehicle Test and Launch Project	Southern Launch is proposing to develop a first iteration of their sovereign suborbital launch vehicle, this includes identification and testing of suitable Australian suppliers and manufacturers. Rocket Technologies' will expand on their current test site to include a continuous flow water deluge system enabling the qualification of rocket motors, and Southern Launch will continue the first stage development of the Whalers Way Launch Complex to support the test launch of the suborbital rocket. This Project will deliver a vertically integrated sovereign space launch capability within 2 years and create new mature value chains that do not currently exist in Australia. This capability will catalyse the expansion of further downstream industries such as satellite manufacture and data driven services.	
23/05/2023	Stories, STEM & making- to enhance home learning environments of ≤5yrolds	The project will empower and encourage families of children younger than school age to discover and discuss STEM concepts through stories and making. This will occur in Makerspaces, and then continue into the home environment. Bringing together families via playgroups, the grantee will partner with Conceptual PlayLab–Australia's first programmatic study of early childhood STEM, to design the conceptual playgroup Makerspaces, and resources for families and professionals.	
26/05/2023	Validation of free space communications within a new region of the electromagnetic spectrum	Innovation Connections promotes collaboration between small and medium sized Australian businesses and the research sector to develop new ideas with commercial potential.	

2/06/2023	Creativity and enquiry-based learning in STEM: A regional youth project	The project provides hands-on STEM programs to youth under 18 in regional communities of Victoria's Barwon South West Region. In partnership with Geelong Regional Libraries Corporation and the Kitjarra Wurrun Ngeen Centre, four-week programs will be run at various locations, engaging their networks of youth with an inclusive focus on historically underrepresented groups in STEM including, but not limited to: girls, Aboriginal and/or Torres Strait Islander peoples and people with disability. The project provides a welcoming space for engagement with emerging technologies and potential careers in STEM. The project equips the partners with means (training and resources) to then continue the programs independently.	
8/06/2023	Mount Mulgine Tungsten Project Metallurgical Testwork	Tungsten Mining (TGN), an Australian based resources company focused on the discovery and development of tungsten deposits in Australia. TGN is developing a detailed testwork program to explore low-cost development options of the Mount Mulgine Tungsten Project (MMP) and the downstream production of Ammonium Paratungstate (APT), an important raw material for most Tungsten products used in manufacturing, aerospace, electric vehicle (EV) technology and defence industries, where supply is currently concentrated from China. This will provide a foundation for subsequent engineering and auxiliary studies to facilitate the development of a robust Tungsten processing flowsheet for the MMP. The MMP will provide significant value to the Mid-West Region and stimulate regional economies through employment opportunities and leveraging local businesses for equipment and services.	
9/06/2023	Dubbo Project EPC Definition - Non-Process Infrastructure	Australian Strategic Materials (ASM) is developing a Dubbo based "mine to metals" business to extract, refine and manufacture high-purity critica metals, alloys and powders, supplying to global manufacturers in clean energies, electric vehicles, aerospace, electronics and communications. The project would advance the design maturity on the key areas outside of the process plant, including residue storage & handling facilities, site water management, utility design and supply, greenhouse gas emission reduction studies and site establishment planning. The overall engineering and implementation deliverables will be key inputs into the Final Investment Decision and the execution of agreements necessary to commence construction of the mine and processing facilities	
9/06/2023	Science Showcase UOW	Science Showcase University of Wollongong (UOW) includes an open day at the UOW Wollongong and Shoalhaven campuses and presentations and interactive activities at the UOW Science Space. The open days will include live ABC Illawarra radio broadcasts and guided tours of several science laboratories and research spaces. This will expose the general public to local scientists, research ideas and facilities. The Science Space will offer tailored activities for visitors and host an evening presentation in the planetarium, spanning the roles of molecules to Indigenous astronomy. These activities will share knowledge that Australian scientists are generating, increase interest and community participation in science, and celebrate the wonders of the world we live in.	
28/06/2023	Project LUNA – Navigation and Guidance Technology for Lunar Exploration	Project LUNA (Laser measurement Unit for Navigational Aid) will demonstrate the performance and capability of the mature Australian LiDAV technology, opening doors to integrate the technology to space transportation, infrastructure, and operations service providers. The technology will be given the ultimate demonstration and evaluation, operating on board Intuitive Machines' Nova-C lander, during controlled descent and landing at Reiner Gamma. Project LUNA will enable rapid integration into landers from 2025-26, enabling exploration of unreached regions of the Moon and beyond to Mars.	
28/06/2023	Australian Deep Space Optical Ground Station Network	In this project, an ANU-led consortium with partners Liquid Instruments, Platypus Instruments and SSC Australia will establish the first Australian deep space communication-capable optical ground station by upgrading the ANU optical ground station (OGS) to be compatible with NASA's Optical to Orion (O2O) mission. The project will pave the way for a future commercial optical communication service by supporting laser links to missions in LEO, Lunar, and Deep-Space orbits and demonstrating cross-continental optical networking between the ANU deep space OGS and an SSC OGS under construction in WA. This is the first step to establishing Australia as a leading provider of secure satellite links for a large and growing market.	
29/06/2023	Establishing a Commercial Optical Communications Ground Station Network	This project will establish 'TeraNet', a three-node commercial optical communications ground station network in Australia. All three nodes of TeraNet will support low-Earth orbit communications using the 'O3K' standard, with the network commissioned using the German Space Agency's OSIRIS on-orbit optical terminals. Advanced communications technologies deployed in TeraNet, including lunar, coherent, timing, and quantum, will enable demonstrations with additional NASA and German Space Agency in-space elements. The project includes extended training, engagement, and operations programs. All project partners will benefit through the long-term commercial operation of TeraNet and in supporting inspirational international space missions.	
29/06/2023	Command and Control for On-orbit Servicing, Assembly and Manufacturing Vehicles	In 2024, Raytracer will partner with Optus to launch their CARBON command-and-control software on an Optus led, world-first On-orbit Servicing, Assembly & Manufacturing (OSAM) mission. The mission will deliver a Mission Robotic Vehicle and Extension Pod to Optus's D3 satellite, providing a further six years of life of extension. Key activities for this space project include the design, development, testing, integration, and support of CARBON through the mission phases, and ready for mission operations by late 2024. Undertaking these activities will demonstrate Raytracer's CARBON technology operating with the Optus D3 satellite in GEO, before CARBON moves on to future Lunar and Mars remote operations missions in 2025 and beyond.	
29/06/2023	SpIRIT satellite operations: An Australian path to exploration beyond Earth	This project supports in-orbit operations of the SpIRIT satellite, a spacecraft developed as the first mission funded by the Australian Space Agency and ready to fly by end of 2023. The first platform of Inovor Technologies and a Neumann Space thruster will be commissioned and operated in space, learning from their in-orbit performance to redesign next generation products ready for applications beyond Earth orbit. SpIRIT will also operate an Italian Space Agency payload, contributing to the international reputation of the Australian space sector as a reliable supplier. 25+ early career engineers and students across five companies will gain hands-on work experience, and the images captured by SpIRIT will inspire the public.	

30/06/2023	Universal Payload Racking System Flight Qualification and Demonstration	The key project activities are to: -Finalise the Universal Payload Racking System designs developed in the ASA co-funded Feasibility Study -Engage the Australian manufacturing and supply chain to produce Flight hardware -Complete Qualification testing of hardware for human rated space flight -To flight demonstrate the Universal Payload Racking System to Sierra Space and potential customers -To demonstrate EA's capability to support Moon to Mars objectives These activities will complete the development and flight demonstration of the Universal Payload Racking System, mitigating identified risks and proving capability, while growing our partnership with Sierra Space. It will also address key objectives required for the commercialization and revenue generation activities for Universal Payload Racking System and the Australian Space industry.	
30/06/2023	Laser Technology for the next GRACE mission	This project will produce laser stabilization flight technology for next generation gravity sensing missions. It extends the successful collaboration on the GRACE Follow-On mission to develop space flight technology for the next GRACE missions. This industry/academia collaboration, working closely with international partners, leverages Australia's world leading defence and technology capabilities of CEA to benefit its space sector and will unlock access to global markets in satellite and communications for Australian companies.	
30/06/2023	Australian Lunar Experiment Promoting Horticulture (ALEPH)	The ALEPH project, 2022-2026 will demonstrate: i) The design, build and test of two ALEPH-1 EM and FM versions, and other related engineering qualification models within Australia ii) Delivery of an engineering model (EM) space qualified flight model (FM) to the spacecraft integrator as per the schedule. iii) Coordinate data download, including reception, curation and web dissemination of data, including images of plant seedlings whilst the payload is on the lunar surface; internal temperature; other sensor outputs. vii) Perform an outreach campaign involving web broadcast and other activities. viii) Hold two workshops, one in 2023/24 and the other in 2026. The achievement of this mission will increase the capability and prestige of Lunaria One and its partners.	
30/06/2023	KAIROS-1: Space Clock Technology Demonstrator	The Kairos-1 Mission will build a next-generation atomic clock and place it in orbit. To de-risk this ambitious plan, we will conduct two other earlier launches to demonstrate space operation of key components of the atomic clock. We will work with available launch partners to obtain access to those launches at low or zero cost. Kairos-1 will result in Australia launching one of the globe's most complex quantum devices into orbit. We will verify the clock performance and be able to demonstrate its superiority against current space-based global navigation satellite systems clocks. Clocks are a key underpinning resource for navigation, timing synchronisation and numerous other space activities – this mission will place Australia and QuantX at the forefront of that.	
2/08/2023	AI driven design of custom in-space propulsion to extend satellite ability	The satellite industry is growing rapidly, and spacecraft requirements are becoming more complex, demanding bespoke solutions to tackle new challenges. Propulsion devices are critical to support satellite applications, such as positioning, communications, and Earth observation for understanding climate change. Building on significant experience in satellite propulsion devices among our partners, the project will develop and demonstrate a new AI driven generative design capability to create bespoke propulsion solutions for satellites. Two propulsion systems will be developed and tested as part of the project to quantify the increases in satellite mobility and lifetime relative to heritage technology, expanding Australia's space capabilities.	
18/08/2023	EDGy: Developing High-performing Satellite Control System Stellar Gyros	No one in Australia builds or sells star trackers for satellite systems. The Project aims to develop a stellar rate gyro that uses an event-based detector to view the star field to produce precise rotation measurements. Development of this Event Detection Gyro (EDGy) prototype will follow a plan to define, design and refine the sensor, software, electronics, system components and performance in space-like conditions. Gilmour Space will partner with Western Sydney University's International Centre for Neuromorphic Systems for the sensor, and Lintek for printed circuit board manufacture. The EDGy Project's goal is to take the first step towards a sovereign best-in-class star tracker.	
28/08/2023	Developing a novel innovative spacer device to improve inhaled therapy	Inspiring Holdings Pty Ltd has developed a novel spacer device to improve the delivery of inhaled drugs to the lungs. The spacer device will result in significantly improved delivery of drugs to the lungs using inhalation delivery devices and improve ease of use for both children and adults. The Entrepreneurs' Programme Accelerating Commercialisation support will be used to help Inspiring commercialise the spacer device and achieve a licence agreement for the manufacturing and distribution of the spacer.	
16/01/2024	Australian Space Industry Capability Database	The Australian Space Industry Capability Database will provide a national resource that will inform and track industry development and contribute to the growth of the Australian space industry in accordance with the 2030 revenue and employment targets established by government.	
13/02/2024	Scaling up extraterrestrial thin silicon solar cell manufacturing	Extraterrestrial Power's mission is to provide affordable power in space. There is a massive growth in the number of satellites being launched, and they are all powered by solar cells. This project will support Extraterrestrial Power to scale up the manufacturing of their unique, thin silicon solar cells that are 10x times more cost efficient compared to existing space solar cells on the market	
13/02/2024	Global Space Challenge 2024	Global Space Challenge 2024 is based upon NASA mission architecture concepts and simulated with high fidelity models of the planets, solar system and physics of space travel, this program teaches students about science, technology, engineering and mathematics through their application to Space Exploration. As a virtual 'space camp,' the Global Space Challenge will develop the knowledge, critical thinking skills and teamwork required to design and experience a space mission. The registration fee for each student is $500 and the program is designed for teams of students. One Giant Leap Australia Foundation is applying for $15,000 to sponsor six teams of five students.	

13/02/2024	Global Space Challenge	This is a 6-day international competition in which students compete design several components of an exploratory mission to an outer planet. Students use realistic NASA simulation software to design, test and improve a range of mission-critical elements such as spacecraft design, plotting an orbital trajectory to an outer planet, executing a precision landing at a designated location, designing a sustainable extraterrestrial habitat, and designing a rover to undertake surface operations. Students are mentored by aerospace engineers and NASA astronauts on key theory elements required for each day's activities. With the projected growth of Australian Space Industries, this competition introduces students to current and future opportunities.	
14/02/2024	Masterpiece FIRST Lego League Challenge	The team have qualified to compete in the Asian Pacific Open Invitational to compete. In the Robot Game, your team will: • Identify Missions to solve. • Design, build and program a LEGO Robot to complete the Missions. • Test and refine your program and design. Your Robot will have to navigate, capture, transport, activate, or deliver objects. You and your Robot will only have 2½ minutes to complete as many Missions as possible. So, be creative! In the Innovation Project, your team will: • Identify a problem with a building or public space in your community. • Design a solution. • Share your solution with others and then refine it.	