

## **ing Curious Minds contestable fund 2016 funded projects**

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**ational Grants**

	<b>Organisation</b>	<b>Funding (excl. GST)</b>	<b>Description</b>
a	Auckland War Memorial Museum	\$56,600	Auckland Museum's Mana Aotūroa Programme reaches out into the community to engage and inspire young children in bilingual education units across the wider Auckland Region to improve their better engagement with and understanding of natural science and technology. The programme provides two natural science education programmes delivered in Te Reo Māori by specialist Museum educators in conjunction with an Early Childhood Educator. The Insects and Wonders of the Sea programmes utilise the Museum's unique handling collection. The sessions are supplemented by online resources, access to the Museum's digitised collection and a technological experience through augmented reality.
Māori Te reo to scientific and	Landcare Research New Zealand Ltd	\$85,000	We will reconnect Maori students to indigenous knowledge about fungi, including traditional uses for rongoa and food. Much knowledge has already been lost. Partnering with Ngapuhia and Ngai Tahu, we will collate traditional knowledge about fungi with material in English. This knowledge of knowledge will be translated into te reo to add to curricula for Kura Kaupapa and Kura Kaupapa delivering enduring benefit to Maori students. Additional to reconnecting students to traditional knowledge, we will motivate students to take science in secondary and tertiary education to inspire a new generation of entrepreneurs to develop natural products using indigenous knowledge.
t	Institute of Geological & Nuclear Sciences Limited - Trading as GNS Science	\$67,500	Experts in science communication and special education are teaming up to unlock the potential of the minds of a particularly hard to reach group of young New Zealanders. This project will use hands-on approaches to help youth with learning disabilities learn about Planet Earth and its systems. Through active experiential learning, science and technology topics will be introduced in ways that are meaningful and relevant to these young people. Knowledge gained will help them to engage in informed debate about issues facing our communities, such as environmental protection, the responsible use of natural resources, and resilience to natural hazards and climate change.
National owning ation ion	Mountains to Sea Conservation Trust	\$148,400	This project will take a 'no holds barred' approach to connecting community with science. It will involve scientists working with schools and community groups to plan and implement ground-based research into locating and restoring Inanga (whitebait) spawning areas in five regions across New Zealand. It provides real bang for buck through the development of comprehensive educational resources that will be available for use around Aotearoa. Inanga are a nationally declining species and locating and restoring their spawning areas is a practical high-visibility way to tell the story of freshwater ecology and of simple cost-effective actions that restore healthy waterways.

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g and	Landcare Research New Zealand Ltd	\$150,000	Moths are underappreciated but essential and highly responsive parts of our ecosystem. Identifying, Strengthening and Restoring Connections will engage the public and raise appreciation of moths as ecological indicators of the health and connectedness of our ecosystem. This project provides teachers, students and whanau with the skills, tools and connections for a nationally significant scientific experiment. Employing internationally recognised moth identification techniques to evaluate the effectiveness of vegetation restoration in restoring ecosystems. Providing first-hand engagement with scientific thinking, processes and methods will enable participants to identify, strengthen and restore connections between their culture and the environment.
Us	Otago Museum Trust Board	\$114,000	<p>Aim: Far from Frozen builds on New Zealand's strong connection to and passion for Antarctica, from exploration and conservation to:</p> <ul style="list-style-type: none"> <li>• Inspire young New Zealanders to follow their passion for science, exploration and discovery;</li> <li>• Engage whole families in the science of climate change; and</li> <li>• Demonstrate the importance of Antarctica in driving Earth's systems and their resilience to New Zealand's climate and sea-level.</li> </ul> <p>What: Using unique footage from award winning filmmaker Anthony Powell, we will share the story of climate science and Antarctic research in an inspiring and immersive fashion. Drawing on the expertise of New Zealand's Antarctic scientists, we will develop portable interactive multimedia demonstrations that depict properties of ice, connect ice to the ocean, provide real time data and show how Antarctica influences New Zealand. These unique outreach offerings will be showcased through gala-style 'hands-on / fun-science' events targeted at families and schools.</p> <p>These outreach days will include displays and activities using actual Antarctic equipment, interactive presentations from, and discussions with, leading researchers in the field.</p> <p>How: Otago Museum has partnered with Antarctica NZ, NZ Antarctic Research Institute and leading Antarctic researchers across New Zealand to develop and deliver this project. We will utilise its national networks of Museums and planetaria to deliver this outreach agency project through city centres, and the Lab-in-a-Box and oculus rift virtual reality platform to deliver to rural areas.</p>
ne	Society for Maori Astronomy Research and Traditions	\$150,000	The SMART Dome Project aims to address the disparity of the number of Maori engaged in Science and Technology. As Aotearoa- New Zealand populations demographics shift towards Maori and other Pacific Islanders it is essential that Maori are able to engage and participate in Science, Technology, Engineering and Mathematics (STEM). The SMART Dome project is a unique outreach programme to engage and excite Maori youth (18 years and younger) in a program centered around astronomy. Our experience has shown us that young rangatahi are interested in astronomy, thus our programme introduces astronomical concepts, space travel, and provides an exciting platform to engage our younger generations.

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War ds	Landcare Research New Zealand Ltd	\$92,800	Weeds in New Zealand are increasing and now outnumber our native flora. Discovering weeds are where is essential for their effective management, and community observation is increasingly important to uncover new infestations and species. This new project will involve Enviro-schools and whanau to discover which weeds occur in four under-collected areas: the 'Weed capital of the world', Gisborne, Wellington's Kapiti Coast and South Island West Coast. School children will learn how to find and identify weeds and biocontrol agents, develop field guidebooks and an online weeds key, and how to upload their observations through iNaturalist NZ.
Project 2: The g on	University of Otago	\$137,821	In 2015 we built Lab-in-a-box and took it on its inaugural tour of the South Island. In 2015, 4000 people engaged with Lab-in-a-box, its scientists and educators. Lab-in-a-box promotes citizen science to the country. In 2016 Lab-in-a-box phase 2 will encourage the country to take citizen science further. We will visit more remote communities (including Stewart Island) and new audiences. We will engage these communities on the key scientific issues of importance to them as well as have them involved in a citizen science programme based around water quality.
with a h	Massey University	\$132,163	Hello Café is a free national afterschool club, where girls of 10 to 13 year olds meet for 6 weeks to develop engineering solutions for problems faced by communities that need help. Whether it's preparing flood defences in the Hutt Valley, or designing relief shelters for flood-stricken communities in Nepal, they will experience, in a relaxed, funky, inspiring, collaborative space, what engineering can do to help people. Each Hello Café will be facilitated by professional women engineers. The Café aims to raise aspirations and widen participation in engineering and technology.

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Pop-	University of Canterbury	\$20,573	This exciting event will be open to Year 10 students from around Christchurch for a friendly competition to design a resilient and sustainable pop-up model house using TinkerCAD software and a laser cutter. Utilizing real world examples, input from researchers, industry experts and collaborators from the Fab Lab and Christchurch Polytechnic Institute of Technology, students will be able to learn from external forces, designing for resilience and finishing with a test of their very own creations. The event will be held at the University of Canterbury. This program encourages attendees to design in a way similar to Kerbal Space Program and Minecraft.
Stage	Otago Peninsula Biodiversity Trust	\$29,420	The possum-free Peninsula campaign led by the Otago Peninsula Biodiversity Group is aimed at getting people interested in local environments as control efforts approach suburban Dunedin. The campaign will cultivate household curiosity into confident action over biodiversity/biosecurity issues in the South of New Zealand. It will provide a framework for community-based research needed by the Department of Conservation to inform their future control work. The project builds on a pilot study involving animal detection and control. Objectives: 1) involve school children and families in gathering new data from new locations on possum distributions; 2) collaborate with scientists to develop an interactive data management/analysis system.
Case Study - Kapua - to be considered	Unitec Institute of Technology	\$30,000	Children, now and in the future, will increasingly have to cope with the social and environmental impacts of climate change, yet they remain largely excluded from the dialogue about climate change. Personal Cloud employs visual arts and music to arouse curious minds to engage with climate change science. Two west Auckland schools, one Māori, one mainstream, will pilot this project, and the results will, in turn, inform the development of an educational app aimed at engaging young people in climate change science. NIWA, Unitec, AUT, Te Uru Gallery, Prospect Primary School in Glen Eden and Kura Kaupapa Māori o Hoani Waititi collaborate to achieve this.
Education	A Rocha Aotearoa NZ	\$11,380	The Karioi Rangers program engages young people in hands-on conservation and environmental science through place based experiential learning. Activities are based around Mt Karioi with a focus on water, land and sea. The programme encourages students to explore the world and think in terms of inter-relationships and ecological contexts and apply this learning to their actions for a more sustainable future. The program also engages and connects young people with professionals working in the field of environmental science that can lead to explore future work opportunities in the field of environmental science.
STEM -	Methodist Mission Southern	\$26,030	Science Works connects disadvantaged and at-risk year 9 and 10 students from Dunedin with innovative businesses in the science and technology sector to provide inspirational, behind-the-scenes experiences of Science, Technology, Engineering and Maths (STEM) based careers to inform their important year 11 NCEA subject decisions. Science Works aims to create 'science works' revealing exciting STEM-based career pathways that are tailored to each student's existing interests, strengths, and increasing students' engagement with STEM education through a contextualized approach at how STEM learning fits with attainable careers in computing, manufacturing, agriculture, conservation, aviation, electronics, tourism and many more skilled career pathways.

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ery to – e k stery	Massey University	\$25,953	There is a mystery in National Park Township: its wastewater treatment wetland looks good but doesn't provide excellent phosphorus removal when established theories and experience say it should. The curious minded will ask: Why is that so? Can this be reproduced elsewhere? Massey University, Aquanet Consulting and Ruapehu District Council will collaborate with local primary and secondary schools to undertake field research and monitoring at National Park in order to exemplify a case study of high relevance to rural communities, the amazing journey from scientific discovery to engineering.
Otago y	Otago Central Rail Trial Trust	\$24,000	New Zealand's recently established network of new cycle trails ( <a href="http://nzcycletrail.com/">http://nzcycletrail.com/</a> ) is an outdoor classroom where visitors, communities and school children can learn and be inspired by science. Riders on these trails have time to contemplate concepts with little other distraction. We will take advantage of this 'receptive' state to convey scientific stories in an integrated fashion along the trail journey. The Otago Interplanetary Cycle Trail will pilot this strategy by creating a 100m scale model of our Solar System on the Otago Central Rail Trail. Through the use of science-themed interpretive signage, science context collateral and professional outreach, we aim to inspire users, school groups, and neighbouring rural communities to grasp and use science as a tool for understanding what surrounds them.
Māori Vet	Massey University	\$30,000	Many Iwi operate important animal based farming and other enterprises, but few Maori students enter veterinary or other professional careers in animal health. Our aim is to encourage students at an earlier stage of their education, with a focus on year 7 to 10 students. We will be providing hands-on experiences in the application of science and technology in a university setting, so that students can see first-hand the connection between animal sciences, technology and careers. Most importantly, we wish to create an experience where they see themselves as performing and leading in scientific and technical roles.
anga udent	Unitec Institute of Technology	\$30,000	Kaitiakitanga is a guardianship and conservation approach to managing the environment based on the Maori world view. The Kaipara Harbour, New Zealand's largest estuarine ecosystem, is under significant environmental pressure. Te Uri O Hau, a hapu from the northern Kaipara region, are the kaitiaki (guardians) of the Kaipara. Using a NIWA-developed toolkit, Nga Waihotanga Iwi will measure and monitor environmental changes in their estuaries. Te Uri O Hau will deliver monitoring instruction to high school students from the rural Kaipara district. Their plan is to link western science (the toolkit) and traditional knowledge (kaitiakitanga) in an engaging and relevant way.

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air sensor	Institute of Geological & Nuclear Sciences Limited - Trading as GNS Science	\$29,500	Air quality is an important determinant of human health and can have particularly strong impacts on children. This project aims to measure air quality inside schools throughout the Hutt Valley. The project encourages increased engagement of primary and intermediate-age children with atmospheric science and sensor technologies. This will be done by equipping schools with small air quality sensors and providing students with the information required to understand data generated and used in small research studies. Students will gain greater understanding of air quality and see how changes to daily activities can make a large difference in improving air quality.
te Two	Kokiri Marae Keriana Olsen Trust	\$26,000	Tuatinitini Oranga o te Awa – Weaving together the strands to ensure the well-being of the river. The project will deliver an innovative multi-faceted project that focuses on achieving long term sustainable management of the awa. This project will weave together the issues of the restoration of the river banks, lack of knowledge of the history of the awa and lack of community involvement and develop practical and sustainable solutions. Our approach will be one that puts people at the centre of thinking and action that will ultimately achieve wider social, health, cultural and economic benefits for the Wainuiomata Community. We will be using a kaupapa maori methodology, key principles will be based around a Kaupapa Maori Framework.
ce	Ashleigh Fox	\$23,430	This project builds on the success of the 2015 pilot Family Science Workshops, by using a new delivery framework to introduce new science topics into our programme. These workshops will incorporate fun and engaging activities to introduce a science topic, using a simple hands-on approach for students and their parents. We target primary school students who have been identified by teachers as having low engagement with science. After the workshop they are presented with a certificate of participation, and take home what they have made. Participants are also invited to join our new on-line community for further science engagement opportunities.
An covery	Institute of Geological & Nuclear Sciences Limited - Trading as GNS Science	\$30,000	The applicant, in partnership with Collingwood Area School Te Kura O Aorere in Collingwood and Golden Bay High School in Takaka, will provide a unique opportunity for a group of 20-25 students to be part of the potential discovery of new dinosaur footprints. This will be done by organising a three-day field event close to the original site where dinosaur footprints were discovered and documented in 2009. Students will disseminate their findings to the community via a dedicated website or their own school websites, and other media engagement. They will be encouraged to create increased awareness about the protection and conservation of fossils in their local environment. The project provides opportunities for the students from rural areas to discover science career pathways prior to completing high school and to build partnerships with scientists, stakeholders and the local community.

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Energy	Landcare Research New Zealand Ltd	\$30,000	Our project aims to introduce students to the microscopic world of house dust and in particular house dust mites (HDM). Some people are allergic to house dust, and it can cause sneezing, itchy eyes, nasal stuffiness, runny nose, respiratory problems, eczema and asthma. "Dust Buster" will teach students about house dust, what is in it, how to quantify what is in their homes using a vacuum cleaner and a standardised sampling protocol. Students will be involved in laboratory practicals and the techniques used to identify mites and other allergens, e.g. fungal mould spores.
Science	Te Taumata O Ngati Whakaue Iho Ake Trust	\$30,000	The Matakokiri science kits are a natural progression from our successful Matakokiri Waiata programme, the Iwi education strategy. Our Matakokiri science kits will provide quality science activities that connect to our stories, our landscapes and our history the kits will be bilingual so all our students can access our Matakokiri science kits.
Education	University of Otago	\$26,106	Children from lower decile schools have fewer opportunities for hands-on science activities compared to pupils from high decile schools and also experience poorer oral health. This project will focus on interest in animals and fossils to engage pupils from low decile Dunedin primary schools. Project activity: making impressions of animal teeth. Accompanying videos will explain the science of fossil formation, dental impression taking, tooth shape and function, and the importance of brushing your teeth for good oral and general health. This programme will stimulate children's interest in a variety of sciences and lead to better oral health.
Research	Massey University	\$29,778	Matauranga taupuhi kaiao (traditional ecological knowledge) holds great significance for Māori because it often meant the difference between a full or empty stomach. Scientists will test the kaitiaki of Ngati Whatua o Kaipara how to use matauranga taupuhi kaiao to their advantage in designing fisheries assessment protocols, and thereby facilitate the efficient, independent management of kaimoana assets within a western agency framework. Our project will focus on toheroa, a species at risk of localised extinction – and will demonstrate how technologies at the forefront of genomics discovery could be used to estimate population sizes of toheroa and further improve monitoring protocols.
Education	Wellington Zoo Trust	\$22,500	Wellington Zoo Bush Builders – Igniting passion for the scientific investigation and exploration of our living world. Wellington Zoo Bush Builders is a Wellington Zoo initiative that connects children, parents and their communities with animals and nature in order to develop environmental awareness and scientific understanding of our living world. Wellington Zoo Bush Builders engages children through interactive learning sessions to launch their journey of scientific learning, giving an overview of our 'big picture' of our global ecology, biodiversity, life and nature and acknowledging that everything is interconnected including people. Wellington Zoo Bush Builders incites curiosity about scientific discovery and encourages children to ask questions and investigate responses, and work together to find solutions for action.

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Bound d for	The University of Auckland	\$30,000	Spaceward Bound New Zealand for Youth is a novel, hands-on, field-based, 5-day Astronaut trip for 40 secondary school students. Designed to enhance the Earth and Space Science curriculum, it will highlight New Zealand's unique geologic features and associated flora and fauna, and explore questions related to life's origins and existence in extreme environments, here and potentially elsewhere. The programme will introduce technology used for space exploration rarely accessible to secondary school students, and the rigorous methods used for scientific observation and discovery. Science learning experiences will be delivered using a Mātauranga approach.
ns - n nt	Waikato Institute of Technology	\$30,000	Wintec will partner with a rural Waikato community to create an Internet of Things (IoT) Garden that is monitored and maintained by local residents. Local school students and community members will learn to apply IoT sensors measuring a range of factors, including soil moisture, temperature, relative humidity, UV levels, rainfall, air pressure, wind speed and wind direction. They will work alongside Wintec researchers to discover how to access this data remotely, and how to apply this information to precision-agriculture. This project will grow students' and community members' experience in applying IoT to real-world problems – and create a sustainable solution for the community to enjoy.
ng de	National Institute of Water and Atmospheric Research Ltd	\$30,000	A joint project between Rongotai College (Kilbirnie, Wellington) and NIWA will enable students to understand the impact of their daily activities and direct environment on atmospheric carbon dioxide levels through self-designed, supervised experimentation. Students will plan and conduct their own measurements of carbon dioxide at selected locations in urban Wellington, analyse the data and interpret them by upscaling to national and global levels. As a consequence, students will learn about the consequences of their activities and environment on atmospheric greenhouse gases. The problems of global atmospheric change and possible solutions will be discussed based on students' experiences and data.
ars	Christchurch Polytechnic Institute of Technology	\$30,000	Interest in Mars has never been so high and New Zealand has potential innovative opportunities in aerospace and engineering. Thousands of children struggle to achieve in mathematics, science, 40% fewer Maori, Pasifika (OECD) and 10% fewer students in remote settings. They have little interest in this key enabler of scientific literacy, leading to insufficient numbers of students pursuing engineering and sciences. The approach to mathematics education must change. The Mars project offers a STEM integrated project based learning experience, at the Yr 10-11 level, which will encourage students to continue with mathematics, sciences and physics.
- people th	Landcare Research New Zealand Ltd	\$30,000	This project engages with Maori youth in environmental issues in their rohe and inspires them to exercise kaitiakitanga. Under a Te Ao Maori framework it reinforces connection between people and place and supports a greater understanding of how 'western science' contributes to achieving environmental outcomes and long term sustainability of the land and natural resources.

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t	Catalyst Charitable Trust	\$8,495	The 'Fast Forward' Sci-tech Fest is an innovative project engaging 205 Year 9-10 Queenstown secondary students and 2,125 primary students in science and technology. Run by the Catalyst Charitable Trust, the local primary and secondary schools, the public and the University of Otago event will involve a 12 week development process, culminating in a week long sci-tech festival in September. Students will investigate their topic of choice, focussed around "Future Queenstown". They will present their findings as a TED style talk, interactive poster or short film/animation during the festival. The project involves seven participating primary schools and then the general public.
Hutt	Hutt City Council	\$30,000	Hands On Hutt Science is a project that transforms the classroom into a laboratory with students acting as working scientists. Through both an in school and after school programme it is able to foster enthusiasm and excitement about science and technology that paves the way for student engagement and success. The focus on practical experiences while at primary and intermediate school alongside the opportunity to meet working scientists can open eyes to the importance and relevance of science and technology and potential career pathways.
o ki	Tirairaka Limited	\$20,775	A three-day marae-based Te Hiku noho taiao for Year 7-13 students will highlight perspectives on taiao and science to encourage rangatahi interest and involvement in science and technology. At school, stimulate thinking about their contribution as leaders/kaitiaki and promote science and technology pathways. Activities will include a mix of workshops, research fieldwork and opportunities to apply scientific methods to taiao knowledge. Using strong links with local schools to help with the project. The Tangonge wetland as a living laboratory through which to build Te Hiku science/research. The project will contribute to the broad goal of re-engaging iwi with Treaty-settlement land.
ience ogy ended	Matapuna Trust	\$30,000	Matapuna Training Centre's "Everyday Science and Technology Projects" aim to introduce young people to science and technology through participation in fun and engaging educational projects that allow them to see how science and technology relates to, and impacts on, their everyday lives. The projects will focus on the wellbeing of the local environment and their wider community. The funding will allow the projects of water quality testing and recycling to continue and be expanded and the teaching and learning resources to be developed for a new area - bee keeping and the role bees/insects play in the health of the environment.
— or kids	University of Waikato	\$30,000	This project offers 7-11 year old students in up to 8 low decile (decile 5 or less) and/or high decile or full or partial immersion primary schools in the Hamilton region, the opportunity to attend school workshops where they learn about robotics and basic coding. The 1.5 hour workshops will be run in 5 week modules involving 2 schools per week. The programme will offer up to 4 modules over 20 weeks between June and the end of November 2016, enabling the involvement of approximately 20 schools. It is expected up to 20 students will be involved in each module within each school. Overall, the project will reach approximately 160 students and their teachers and parents.

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b ch	The Mind Lab Limited	\$26,087	This project will inspire the young thinkers, makers and doers of the future to begin on a path of innovation and creativity through science and technology. After school/weekend workshops will be run at The Mind Lab by Unitec Gisborne to support rangatahi in the thoughtful integration of practical, focussed skills and knowledge. The workshops will be in coding, electronics, Arduino, web development, app development, 3D printing/design. Workshops will be hands on and active, participating in the creation of away tangible products, solutions and knowledge to apply in their context. The outcome of these workshops will enable the next generation of Tairāwhiti to think positively about the future and their role in it.
girls' al g	University of Canterbury	\$23,459	Wouldn't it be great if girls and women were contributing to the computational world as well as men? Potentially, a STEM career choice by girls could result in a wider range of technologies and development and applications for solving life issues and would give them enhanced life opportunities. This project promotes the participation of girls in science, technology and engineering (STEM) by developing computational thinking using robotics. The target group includes Maori and Pasifika girls because females are currently massively under-represented in STEM higher education and related careers.
ate - ng, n	NZ International Science Festival	\$7,773	Project Activate is about encouraging children in the Pacific Island community to look at a topic that is impacting their community - healthy lifestyles. This project aims to inspire Pacific Island children, families and community through hands on and interactive science activities. The project explores what we eat and how we move impacts us and what impact small changes can make to a healthy lifestyle. The outcome is twofold: experiencing science in an interactive way through hands on activities relevant to everyday life, and a community that lives healthier lives and making healthier choices as a result.
schools	Technology in Schools Education Trust	\$30,000	Technology in Schools Education Trust is a "not for profit" charitable trust established to support technology based education. The trust has developed the "Robots in Schools" program which includes a curriculum to support - <ul style="list-style-type: none"> <li>• STEM learning related primary school curriculum</li> <li>• Engaging and learning about technology in the real world</li> </ul> It does this through using contextual learning techniques using Robots, which the children build and program to perform a range of STEM related objectives The trust aims to roll out in-school and out-of-class programmes totalling 5000 child learning opportunities across the Hawkes Bay region in 2016.

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erial with outh	Auckland University of Technology	\$25,000	The main aim of the proposed project is creating a broader understanding of science, technology, engineering and mathematics (STEM) by South Auckland youth and link STEM to entrepreneurship using excellent facilities and resources of the AUT's South Campus. We propose to conduct workshops called STEMpreneurial interactive workshops with hand-on activities to connect STEM to entrepreneurship. It will also involve joint science and technology projects with South Auckland industries that will continue long after the workshops finished. The main outcome is providing South Auckland youth to think about themselves as job makers rather than job takers in the future.
Space &	Wellington Museums Trust Inc. T/A Space Place at Carter Observatory	\$8,094	Space Place, with MetService, are excited to launch a balloon into near space with a group of decile secondary school students from schools around the Wellington region. High Altitude Balloons are used daily to get accurate weather, in an effort by Google to provide internet for all, and have many possible uses in the future technology landscape of New Zealand. Students will learn about the technology involved then assemble and launch the system into near space. The students will participate with an understanding of the results and share the project (and photos!) with their classmates.