

Projects approved for funding in 2019

Regional/National Grants

Title	Organisation	Region	Funding (excl. GST)	Description
Karanga O Tanemahuta	Manaaki Whenua Landcare Research New Zealand Ltd	Northland	\$150,000	Karanga O Tānemahuta will initiate a 2,000 year kaitiaki project, supporting kaitiakitanga of Au Warawara forest by connecting Northland rangatahi through experiential and participatory learning techniques.
Te Kura o te Kauri: The School of the Kauri	The Research Trust of Victoria University of Wellington	Northland, Auckland	\$150,000	Te Kura o te Kauri aims to inspire children and their whānau to become the next generation of kaitiaki by creating a novel learning environment that combines science, mātauranga Māori and the arts.
Students rediscover fungi: Linking science and mātauranga Māori about NZ fungi	Manaaki Whenua Landcare Research New Zealand Ltd	Northland, Auckland	\$108,000	This project will embed knowledge of biology and traditional uses of fungi among kura kaupapa teachers and students in Northland and South Auckland, building on the UCM-funded bilingual resource distributed nationwide in 2017.
Extreme Science II: Taking Science Engagement to Aotearoa's Most Remote Communities	Otago Museum Trust Board	Northland, Auckland, Gisborne, West Coast, Canterbury, Southland	\$30,000	Extreme Science II builds on the success of the Chatham Islands science engagement expedition, to return and extend science outreach to Stewart Island, Bay of Islands and Aotearoa's remotest rural schools and communities.

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Nanogirl's Lab - a Nationwide afterschool STEAM club	Nanogirl Labs Ltd	Northland, Auckland, Waikato, Bay of Plenty, Gisborne, Hawke's Bay, Taranaki, Manawatu-Whanganui, Wellington, Southland	\$150,000	Collaborative, hands-on and great fun, this 8-week programme builds confidence in STEAM (Science, Technology, Engineering, Art, and Mathematics) for Year 3-4 students. With diversity and accessibility at its heart, Nanogirl's Lab is delivered in communities nationwide.
The Air Science Circus	National Institute of Water and Atmospheric Research Ltd	Northland, Auckland, Waikato, Bay of Plenty, Manawatu-Whanganui, Wellington, Canterbury, Otago	\$150,000	A touring 'circus' of air-themed experiments and experiences will prompt schoolchildren to create collaborative data, art, and stories which will be virtually curated and shared to support peer-to-peer learning.
Papa Taiao Kura Kaitiaki Whenua a tool for Taiohi Māori to excel in Pūtaiao and Science	PAPA TAIAO – Earthcare Limited	Northland, Gisborne, Wellington	\$136,600	Pā Wānanga will deliver environmental science projects using whānau, marae, hapu based approaches to lift taiohi Māori engagement in Matauranga-Māori, Science, Sustainability and contemporary Kaitiakitanga.
Programmable Electronics: Digital Technology Learning through STEAMS Kits	Ministry of Inspiration	Tasman, Nelson, Marlborough, West Coast, Canterbury, Otago	\$59,600	STEAMS Kits engage youth in the rural districts with digital technology by providing them with an opportunity to learn and explore programmable electronics.
Kaiwhanake Taupānga Māori - Māori Youth Game Development programme	Pam Fergusson Charitable Trust	Waikato	\$134,445	The Māori-Game-Development project is a programme designed to empower rangatahi in underserved areas to design and develop Māori digital learning games, giving them skills in computer science and programming.

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Lake Taupō Forestry Trust Science and Technology Education Camp	New Zealand Forest Research Institute Ltd Trading as Scion	Waikato, Bay of Plenty	\$102,000	A STEM Pruners School Holiday Programme for children from the from the Bay of Plenty-Central Plateau region forest communities. The project supports the growth, education and workforce development goals of the Māori forestry sector as well as the future success of the Central North Island forestry region.
Science fusion 2: kura + whare wānanga = science + pūtaiao	University of Otago	Wellington	\$150,000	Working in partnership with local and regional kura (Māori immersion schools) we plan to continue and expand our programme of pūtaiao and science, to have fun and create learning opportunities.
Aquavan Action... Connecting Catchment Communities with Coastal Health	University of Otago	West Coast, Canterbury, Otago, Southland	\$91,663	The Aquavan will travel from sea to source, engaging new audiences and building community skill in environmental monitoring and knowledge mapping, expanding the 2018 project, 'Aquavan... Discovering our Coastal Connections'.

Local Grants

Title	Organisation	Region	Funding (excl. GST)	Description
Kaitiaki whenua: engaging kura kaupapa rangatahi in digital technologies for environmental stewardship	Unitec Institute of Technology	Auckland	\$30,000	Hoani Waititi rangatahi will utilise digital technologies to automate watering their edible garden and feeding their chickens. The project will strengthen linkages between te ao Māori and the digital world.
What's in our water: Shining a light on water quality	University of Auckland	Auckland	\$30,000	This project will empower students, teachers and communities with tools to monitor the health of their local waterways by making low-cost light-based kits for measuring chemical pollutants in water.
Exploring Careers in Geographic Information Systems and Unpersoned Aerial Vehicles	Massey University	Auckland	\$29,620	This project aims to introduce students to skills and showcase career opportunities in Geographic Information Systems and Unpersoned Aerial Vehicles through field trips and experiential learning during a multi-day camp.
What's that? Evaluating coastal ecosystem health using underwater soundscapes	University of Auckland	Auckland	\$30,000	As cities grow, so do impacts associated with noise. Using a novel approach, this project will evaluate Auckland's coastal ecosystem health through the recording and analysis of underwater soundscapes.
Understanding rusts – fungal invaders of Aotearoa	The New Zealand Institute for Plant and Food Research Limited	Auckland	\$30,000	Students will learn how scientists work with biosecurity threats in Aotearoa, comparing myrtle rust with other rust fungi, discovering fungal life cycles and concepts about research into unwanted plant diseases.
Bringing the kūmara story to life with 3D printing	New Zealand Forest Research Institute Ltd Trading as Scion	Bay of Plenty	\$30,000	In collaboration with Kai Rotorua, Scion and Rotorua Boys High School, Māori teenagers will engage with science by exploring their own cultural history of kūmara using 3D printing technology.

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Possums and Pythagoras: How mathematics helps solve New Zealand's pest mammal problem	Manaaki Whenua Landcare Research New Zealand Ltd	Canterbury	\$30,000	By collecting, analysing and mapping their own GPS data during an interactive field trip, students learn how mathematics helps us understand animal ecology resulting in effective control of pest mammals.
Early Childhood Environment Investigators	Mountains to Sea Conservation Trust	Canterbury	\$29,850	Extending the National Inanga Spawning Education Programme, Cantabrian early childhood teachers will increase their confidence in teaching science, be connected with local scientists and have access to quality science resources.
Huiterangi Digitech - Haramai Te Toki	Tolaga Bay Inn Charitable Trust	Gisborne	\$28,800	This project is a bi-lingual and environmentally friendly technology hub delivering digital and technological opportunities to the young people of Tolaga Bay and Tokomaru Bay.
Tai Moana, Tai Ora – A Community Approach to Marine Sustainability and Resilience through Science	Institute of Environmental Science and Research Limited	Hawke's Bay	\$30,000	'Tai Moana, Tai Ora' will engage with tamariki of Te Kura Kaupapa Māori o Te Parehuia in their natural marine science environment to determine the health of their environment.
Feeding the World Today and Tomorrow Requires Food Scientists	University of Otago	Otago	\$30,000	To highlight the exciting career opportunities in the food industry and demonstrate the underpinning science, food scientists and technologists will run hands-on workshops for Years 9 to 10 students.
STEM Kids	Methodist Mission Southern	Otago	\$23,332	STEM Kids is a hands-on STEM discovery programme for year-5 children from low-decile schools that develops skills, confidence and curiosity in coding, engineering and technology to inspire future STEM learning.

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Science Journeys: From Ship to Showcase	Otago Museum Trust Board	Otago	\$28,700	The project will guide a team of young people to develop their own climate-themed science showcase for public display, based on the research carried out on an international science expedition.
Alexandra's Air—An Illustrated Guide	National Institute of Water and Atmospheric Research Ltd	Otago	\$30,000	High school children in Alexandra will learn how to analyse, visualise and communicate air quality data collected by children and researchers in our previous: 'What's In Your Air, Alex?'
Science Show-offs: Empowering youth to on-teach science concepts to families and friends	Otago Museum Trust Board	Otago	\$16,500	"Science Show-offs" aims to empower young people with key scientific principles so they can share their knowledge with family and friends. The project will use everyday objects to carry out hands-on science demonstrations and explorations at school playgrounds, sports fields, cafes and shopping malls.
School of Rocks	The Waitaki Whitestone Geopark Trust	Otago	\$30,000	The School of Rocks will enable Waitaki schools to explore local geology using spatial technology, raise community awareness of local geologic heritage, and become kaitiaki of special geological sites within the Waitaki Whitestone Geopark.
Coding and Robot-making – an interactive course of study made available remotely	Nathalie Lacaze T/A Smartbots	Tasman, Nelson, Marlborough	\$26,086.96	Giving opportunities to youth of rural, remote location, and unable to obtain STEAM education, to access coding and robotics programs delivered online, and to interact through specific locally planned events.
Local taonga as the nexus for STEM introduction	Massey University	Waikato	\$25,985	Raglan Area School students will use a locally-discovered fossil as the nexus for a major science discovery program, encouraging these students to recognise their own capability for enquiry-based learning.

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Manaaki Ao	A Rocha Aotearoa NZ	Waikato	\$28,880	The project is co-creating together with Raglan Area School and Papa Taiao outdoor living classrooms where students will be introduced to a variety of local environmental issues, human impacts and explore various solutions to these. Learning takes place outdoors and is student led, enquiry based and experiential.
Hands on Health Science and Pathology for Primary School Children	University of Otago	Wellington	\$30,000	Collaborative development and delivery of fun, hands-on health science and pathology sessions to primary school children at low decile schools in the Wellington City, Porirua and Lower Hutt regions.
Whakatōmene: Matiu Somes Island	Hutt City Council	Wellington	\$11,060.87	Rangatahi will discover their passion for science by learning about ecology, conservation & marine biology, by comparing their own backyard to Matiu Somes Island.
Greymouth Japanese Honeysuckle Biocontrol	Guardians of Paroa Taramakau Coastal Area Trust	West Coast	\$18,000	The project aims to reduce Japanese Honeysuckle at Paroa Lagoon with Manaaki Whenua Landcare Research biocontrol (white admiral butterfly), engaging Greymouth Year 12 Biology students and Paroa enviroschool students.