Successful Proposals from 'New Zealand Natural Hazards'

NZ Natural Hazards	Funding (GST excl)	Short Title	Long Title	Science Leader
GNS Science	$311,000	Alpine Fault earthquake recurrence	Improved estimates of frequency and forecasting for large-great earthquakes on the southern Alpine Fault	Dr Kate Clark and Dr Ursula Cochran
GNS Science	$200,000	Hybrid earthquake forecasting models	Optimisation and Testing of Hybrid Earthquake Forecasting Models	Dr David Rhoades
GNS Science	$350,000	Inversion of GPS velocities	Inversion of GPS velocities for high-resolution surface expressions of subsurface deformation sources	Dr John Haines
Dr Bruce Hayward	$360,000	Great megathrust earthquake hazard	Great megathrust earthquake hazard in New Zealand	Dr Bruce W. Hayward and Dr Ursula Cochran
Massey University	$270,000	Matauranga Maori for Volcanic Hazard	He haerenga mōrearea - A hazardous journey: Exploring Mātauranga Māori for assessing volcanic hazards and improving monitoring approaches and iwi/hapū planning	Dr Jonathan Procter
NIWA	$440,000	Submarine Landslide-Tsunami Hazard	Quantifying the landslide-generated tsunami hazard in central New Zealand: A workflow for probabilistic landslide tsunami hazard assessment	Dr Joshu Mountjoy
NIWA	$300,000	Storm tide hazards in estuaries	Storm-tide flooding hazard exposure for urbanised estuaries and harbours	Dr Rob Bell
NIWA	$420,000	Wind Speed Hill Shape Multipliers	Establishing reliable and accurate code methods to enable engineers to estimate wind speed-up variations in complex terrain	Dr Michael Revell
University of Auckland	$299,000	EBF Demand and Repair	Eccentrically Braced Frame Inelastic Demand and Repair in Severe Earthquakes	Professor George Ferguson
University of Canterbury	$450,000	Residual Capacity and Repairing Options	Residual Capacity and Repairing Options for Reinforced Concrete Buildings	Associate Professor Stefano Pampanin
GNS Science	$600,000 merged	Tsunami impacts on ports and harbours	Improving tsunami warnings and real time hazard assessment in New Zealand's ports and harbours.	Dr Jose Borrero and Dr William Power
University of Auckland		Tsunami Resilience of NZ Ports	Novel physical and numerical modelling of tsunami loading on Port structures	Professor Bruce Melville
Total	**$4,000,000**			

Successful Proposals from 'Lessons Learned from Christchurch'

Lessons Learned from Christchurch	Funding (GST excl)	Short Title	Long Title	Science Leader
GNS Science	$490,000	Groundwater and liquefaction	Did artesian groundwater contribute to Christchurch liquefaction and lateral spreading damage?	Dr Simon Cox
GNS Science	$450,000	Economic lessons from Christchurch	Economic responses to the Canterbury earthquakes: evidence from labour and property markets	Dr Levente Timar
Massey University	$250,000	Faster Rebuilds with MRCGE	Simulating socio-economic impacts of the rebuild phase following a volcanic event using multi-regional and dynamic Computable General Equilibrium	Professor Shane Cronin
NIWA	$280,000	Active Submarine Faulting	Active Submarine Faulting and Earthquake Potential in Near-shore Coastal Regions, Northern South Island	Dr Philip Barnes
Opus International Consultants Ltd	$500,000	Acceptable seismic risk of older buildings	Acceptable risk of older commercial buildings in earthquake-prone New Zealand cities	Vince Dravitzki
University of Auckland	$300,000	Retrofit solutions for heritage URM buildings	Preservation of heritage unreinforced masonry buildings through more appropriate retrofit solutions	Associate Professor Jason Ingham
University of Auckland	$230,000	Reinforced concrete walls	Improving the seismic performance of reinforced concrete walls	Dr Richard Henry
GNS Science	$500,000 merged	Quantifying contributions to seismic hazard	Quantifying source, path and site-specific contributions to seismic hazard in Canterbury	Dr Anna Kaiser
University of Canterbury		Stochastic Ground Motion Simulation of Christchurch Earthquakes	Stochastic Simulation of Ground Motions Observed in the Christchurch Earthquakes Including Site-Specific Effects	Dr Brendon Bradley
University of Canterbury		Seismic site response effects	Seismic site response effects on surface ground motions and ground deformations	Dr Brendon Bradley
Total	**$3,000,000**			