

# RFP 2016

## 2016 Funded Projects

*Does not include travel funding or workshops*

Project ID	Researchers	Project Title	Area
16002	Somerville, Bradley, Bayless, Hosseini & Skarlatoudis	Validation of Strong Ground Motion Simulations of two Historical New Zealand Subduction Zone Earthquakes on the SCEC Broadband Strong Ground Motion Simulation Platform	FP1
16005	Orchiston, Smith, McDonald, Brown, Harvey, Simmons, Blanchfield & Worner	Scoping Tourism Dynamics Post-Quake: A Module for MERIT	FP5
16006	Stirling & Van Houtte	Validation of earthquake simulations using fragile geologic features.	FP1
16008	Becker, Egbelakin, Johnston, Orchiston & Ingham	Where perceptions and policy meet: Understanding pathways to improving mitigation for earthquake prone buildings	FP3
16009	Johnston, Ardagh, Ingham, Deely & MacDonald	Human Behaviour in Earthquakes: Implications for Engineering Design	SEED
16010	Keeney	Development of a Vision Mtauranga Strategy that addresses the particular research needs of QuakeCoRE	SEED
16011	Glavovic & White	Understanding the governance dimensions of earthquake resilience	FP5
16012	Filippova, Grimes & Ingham	Quantifying the economic impact of New Zealand's earthquake-prone building policy on commercial property markets	FP3
16013	Cubrinovski, Stringer & van Ballegooy	Effects of Partial Saturation on Liquefaction Triggering	FP2
16014	Brower & Johnston	The evolution of New Zealand earthquake safety policy	FP3
16015	Palermo, Cowan, White, Reynolds & Yen	Design Procedure and Feasibility Analysis of Low-Damage Dissipative Rocking Precast Concrete Bridge Decks	FP4
16016	Chang-Richards, Brown & Smith	Effects of alternative reconstruction pathways on earthquake recovery	FP5
16020	Hogan, Henry, Jason Ingham, Wilson & Hashemi	Collaborative framework for largescale structural testing between New Zealand research institutions and Swinburne University of Technology	TP1
16023	Morris, Carradine, Li, Bird, Parker, Thomas, Beattie, Chang-Richards & LaCrosse	Improving seismic performance, resilience, repair and assessment of New Zealand light frame houses with a focus on post-event occupation.	FP4
16024	Motter, Elwood, Pampanin & Weng Yuen Kam	Loading Protocols and Limit State Criteria for Laboratory Testing	TP1
16025	Orense, Pender, Wotherspoon, van Ballegooy & Cubrinovski	Evaluation of liquefaction potential of pumiceous deposits through field testing	FP2
16026	Pender, Orense & van Ballegooy	Numerical modelling of recorded pore pressure response during the Canterbury Earthquake Sequence	FP2
16027	Wotherspoon, Bradley, Reid, Hargreaves & Wopereis	Dynamic Site Characterisation of the Nelson/Tasman Region	FP1
16029	Hatton, Brown, Seville & Blacklock	Creating the business case for investment in organisational resilience	FP5
16030	Bradley, Lee, Thomson, Jeong, Razafindrakoto, Wotherspoon, Fraser, Massey, Quigley, Asimaki, Baker, Rodriguez-Marek & Graves	Advancing ground motion simulation methodologies through further insights from the 2010-2011 Canterbury earthquakes	FP1
16034	McGann, Bradley, Wotherspoon, Clare & Sun	OpenSees on NeSI computational resources: Implementation of source code, pre- and post-processing software development, and community workshops	TP4
16035	Pettinga, Fraser & Bradley	Guidance for the utilization of earthquake-induced ground motion simulations in engineering practice	FP1
16037	Vargo, Walker, Stevenson & Hatton	Data integration and visualisation: Prototyping QuakeCoRE data platform for diverse needs.	TP3
16038	Giovinazzi, Seville, Baker, Elwood & Stannard	Linking building properties and damage to earthquake-induced business' downtime	FP5
16043	Lacrosse, Bradley & van Ballegooy	Comparison between deterministic and probabilistic liquefaction triggering assessment approaches over the Christchurch area	FP2
16046	Elwood, Henry, Motter, Hube & Smith	Residual capacity of repaired reinforced concrete walls and lower-damage modifications	FP4
16050	Massey, Carey, Villeneuve & Fenton	Why did the "toe slumps" slump during the 2010/11 Canterbury earthquakes?	SEED
16051	Saunders, Mathieson, Coomer & Ries	Are plans at fault? Understanding how active faults are incorporated into land use plans	FP5
16054	Horspool, Cody, Elwood, Uma & Nayerloo	Smart Seismic Cities	TP3

16056	van Ballegooy, Cubrinovski, Russell & Bastin	Lateral Spreading Observations and Interpretation from the Christchurch Earthquakes	FP2
16058	Dizhur, Ingham, Bradley & Cattanaach	Shake table testing of simple and practical securing solutions for face loaded unreinforced masonry walls	FP3
16059	Wilson, Dohaney, Brogt, Hudson-Doyle, Bradley, Kennedy & Johnston	Knowledge transfer for sustainable earthquake risk communication practice: Advancing student and professionals skills in risk communication	EOT
16060	van Ballegooy, Bastin, Orense, Pender & Wotherspoon	Whakatane liquefaction case history from the 1987 Edgecumbe Earthquake: examination of an extensive CPT dataset supplemented by paleo-liquefaction investigations	FP2
16061	Chiaro, Taylor, Wotherspoon & Palmer	Characterisation of cyclic behaviour and liquefaction resistance of Wellington Port gravelly soils	FP2
16066	Sarti & Smith, Palermo, Pampanin, Granello, Ponzo & Drummond	Understand the dynamic characteristics of post-tensioned multi-storey timber buildings through monitoring and field testing on actual implementations	FP4
16067	Rodgers, Pampanin, Ma & Chase	Direction Dependent Dissipation (D3) Devices: Semi-Active Behaviour with the robustness of a passive device	FP4
16073	Clifton & Lim	Enhanced Seismic Resilience of Light Steel Frame Pallet Racking Systems	FP4
16074	Ingham, Dizhur, Noy & Johnston	Exemplar retrofits: Celebrating success	FP3
16075	Ivory, Bowie, Ingham, Davies & Stevens	Stronger buildings via precinct upgrades: Understanding lesson learnt from past precinct approaches	FP3
16076	Jafarzadeh, Ingham & McAulay	The cost of seismic retrofits: Case studies from Auckland Council	FP3
16077	Noy, Parker, Filippova, Seville & Vargo	Insurance for EQP buildings – incentives, premiums, and contracts	FP3
16028/68	Stringer, Orense, Cubrinovski & Pender	Evaluation of undistributed sampling techniques for pumiceous soils	FP2

Please note, this table is correct to the best of our knowledge, and is subject to change. Please contact [admin@quakecore.nz](mailto:admin@quakecore.nz) if you notice any errors.