

Analysing how buildings behave during earthquake shaking, considering all components as an entire system, to improve design solutions for safer, more usable and readily repairable buildings.

Taking a holistic approach to building performance involves quantifying how the structural and non-structural parts of a building interact during seismic shaking. Full-scale, multi-storey buildings will be tested on shake tables in collaboration with international partners to investigate designs that minimise damage and enable rapid repair after earthquakes.

## **Research Areas**

- Implication of design and assessment methods
- Interactions between structural components
- Diaphragm assessment and design
- Non-structural component demands

## Programme Area Leaders:

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