**Project: Property level flood resilience**

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Property level flood resilience is an area of growing policy and practice focus as a necessary part of integrated flood risk management. However there is a general lack of evidence relating to the performance of building specific flood resilient interventions designed to limit the damage and speed recovery in properties subject to flood inundation. Research that has explored the link between properties of materials and properties of building assemblies reveals that the performance of materials in situ cannot simply be derived from knowledge of material properties such as porosity. There is also a need to explore the impact of resilient adaptations in whole buildings, as part of the property lifecycle and derive methods to test the resilience of existing building stock.

Therefore this project will seek to derive new evidence, innovative testing protocols and models that can bring improved industry practice in the support of property flood resilience. It will suit a candidate with an interest in building performance, building surveying and/or building materials. The research will be achieved through challenging objectives for example:

1. Identify and trial suitable test protocols;
2. Improve the measurement of the flood resilience of buildings and building elements;
3. Evaluate the benefits, risks and co-benefits of measures;
4. Derive models that enable prediction of building resilience.

Applicants must have a good honours degree (2.1 or equivalent) in Built Environment disciplines.