



NERC DREAM CDT PhD opportunities at Newcastle University 2017

The NERC DREAM (Data, Risk and Environmental Analytical Methods) Centre for Doctoral training on Risk and Mitigation using BIG Data is a consortium of Newcastle, Cranfield, Cambridge and Birmingham Universities. We will be awarding 10 full PhD studentships to start in October 2017.

Applications from eligible students are now sought for the Newcastle University DREAM projects for an October 2017 start. Newcastle projects available for October 2017 (along with lead supervisor) are:

- **Massive multi-agent simulation of environmental risks to interdependent infrastructure.**
([Prof Richard Dawson](#))
- **Environmental risks to global resource flows.**
([Prof Richard Dawson](#))
- **Improving decision making in hazard situations using geovisualisation.**
([Dr David Fairbairn](#))
- **High resolution modelling of real-world floods – models, forecasts and uncertainties.**
([Prof Hayley Fowler](#))
- **Extreme rainfall forecasting: new statistical simulation and Big Data methods for making sense of rainfall radar and rain gauges.**
([Prof Chris Kilsby](#))
- **Capturing Tsunamis and Storm Surges: Coupling the Human and Natural Systems through Games Technology.**
([Prof Qihua Liang](#))
- **Earth observation for UK-wide flood infrastructure risk management.**
([Prof Jon Mills](#))
- **Can citizen science observations improve real-time flood risk assessment – bringing the crowd to the cloud?**
([Dr Geoffrey Parkin](#))
- **Preserving Privacy for Urban Data in the Internet of Things.**
([Dr Rajiv Ranjan](#))
- **Big data real-time online analysis of urban flooding impact on traffic flows.**
([Dr Wen Xiao](#))

Deadline for applications is 13th March with interviews to be held the week commencing 21st March.

Full details on Newcastle University projects along with application form and eligibility conditions can be found at <http://www.dream-cdt.ac.uk/studying/application/>.

Further details regarding individual projects can be obtained by contacting the appropriate lead supervisor. General enquiries regarding a DREAM PhD application can be directed to [Stuart Barr](#).

Please forward completed application forms and related paperwork to [Stuart Barr](#) by the 13th March deadline.