UrbanARK: Assessment, Risk Management, & Knowledge for Coastal Flood Risk Management in Urban Areas

The School of Natural and Built Environment at Queen's University Belfast currently offers a fully funded PhD position (3 years with the possibility of a 1 year post-doctoral extension) as part of the UrbanARK project.

The UrbanARK project is an international multi-disciplinary collaboration between Queen's University Belfast (QUB), University College Dublin (UCD) and New York University (NYU) funded under the US - Ireland Research & Development Programme. The multinational project brings together leading researchers across the areas of geomatics, spatial data analysis, hydrology, computer science and risk communication to investigate innovative approaches for the collection and management of spatial data to refine flood risk assessments for urban coastal cities and to support immersive risk communication tools.

The researcher will be based with the Centre for GIS and Geomatics and the Environmental Change & Resilience Research Group at QUB under the supervision of Dr. Jennifer McKinley and Dr. Ulrich Ofterdinger. The researcher will focus on the acquisition and analysis of mobile LiDAR Scanning and other Remote Sensing data in the urban environment and support the integration of these data into numerical flood risk models and risk communication tools. Research activities will include field-based activities in Belfast, Dublin and New York and data analysis in collaboration with collaborating research groups at UCD and NYU.

Qualifications sought:

BSc/BEng 2(i) or higher and/or or an MSc/MEng; Geomatics, Geography, Geoscience, Environmental or Civil Engineering or related subject; must be numerate & familiar with IT; experience of Geographical Information Science (GIS) and digital data acquisition and analysis is advantageous

Interested candidates should contact Dr. Jennifer McKinley (j.mckinley@qub.ac.uk) or Dr. Ulrich Ofterdinger (U.Ofterdinger@qub.ac.uk) for further details.