



ARUP



Research Masters (MEngSc) in Engineering Geology/ Geotechnical Engineering at NUI Galway

Project Title: Geological investigation of buried limestone valleys between Lough Corrib and Galway City.

Supervision team: Dr. Bryan McCabe, Dr. Tiernan Henry, Dr. John Murray, Dr. Eve Daly (NUI Galway), Marie Fleming (Arup), Dr. Caoimhe Hickey (GSI).

Project Description: During the ground investigation for the engineering design of the N6 Galway City Transport Project, buried limestone valleys (up to 105m deep) were discovered in the region between Lough Corrib and Galway City. With this extensive ground investigation as background and with access to two local quarries, the project aims to: (1) map and characterise the Visean limestones in the area, (2) perform additional geophysics to enable 3-D models of some of the buried valleys to be developed, and (3) carry out appropriate sampling and laboratory testing to understand the origin and nature of the infill material and its implication for geotechnics and hydrology/hydrogeology in the area.

Position Description: This two-year full-time Master's by research (MEngSc) position is funded through the new *Geohazard and Geotechnical Engineering* spoke of Irish Centre for Research in Applied Geosciences (iCRAG). The successful candidate will be registered at NUI Galway, starting no later than 2nd January 2018. The Master's stipend is €18,500 per annum, with a contribution to EU fees of €5,500 per annum. The candidate may also be required to contribute up to 150 hours per annum demonstrating undergraduate laboratory classes.

Candidate Experience: The candidate should have a minimum 2.1 in an honours Bachelor's degree in Engineering Geology, Geology or Civil Engineering, or an equivalent standard from an overseas university. Some experience in ground investigation and geophysical methods for civil engineering works would be an advantage.

Application: Please e-mail a CV (max. 2 pages) and a cover letter outlining your experience and motivation to Dr. Bryan McCabe (bryan.mccabe@nuigalway.ie) by 17:00 on Friday 27th October 2017.

