Postdoctoral Research Opportunity in Energy Recovery Systems for Water Distribution Networks

The Dept of Civil, Structural & Environmental Engineering, Trinity College Dublin invites applications for a Postdoctoral Research Fellow, part funded under the ERDF INTERREG Ireland-Wales programme 2014-2020. The Department is collaborating with the Trinity Business School and Bangor University Wales in this research.

The project is entitled Distributing our Water Resources: Utilising Integrated, Smart & low-Carbon Energy (Dŵr Uisce). The aim of the Dŵr Uisce project is to improve the long-term sustainability of water supply, treatment and end-use in Ireland and Wales through:

- The development of a number of new innovative technology platforms
- Undertaking economic and environmental impact assessments
- Developing policy and best practice guidelines to facilitate the implementation of integrated low-carbon and smart energy solutions for the water sector.

The project is also focused on the development of a cross-border smart specialisation cluster on the challenge of water and energy in the region (www.dwr UISCE.eu).

This postdoctoral research appointment will focus on the development and assessment of energy recovery systems for the water industry using three technology platforms (micro-hydropower, waste-water heat recovery & network optimisation). The successful candidate will:

- Carry out background research in the fields of hydropower energy recovery, water supply & treatment, waste-water heat recovery.
- Aid in the develop and assessment of prototypes of energy recovery systems
- Aid in the design, implementation and monitoring of full-scale pilot demonstrations
- Develop an energy rating framework for water distribution systems

The successful candidate will join a large multidisciplinary and cross-border research team undertaking a €3.4 million EU project. The applicant is expected to play a senior role in the delivery of project reports, deliverables and other administrative duties. Applicants with a PhD in a related engineering or science
discipline will be considered. Applicants with research or industry experience in the fields of water distribution and/or energy systems are particularly welcome.

Applicants are asked to send a cover letter, CV and the names of two referees, at least one of whom should be an academic, to the address below. Closing date 1st September 2017.

Position commencing 1st October 2017. Salary €37,013 rising to €41,003 (47 month contract).

Dr Aonghus McNabola
Department of Civil, Structural and Environmental Engineering
Trinity College
Dublin 2
Ireland
Email: amcnabol@tcd.ie
Telephone +353-1-8963837