Postdoctoral Researcher

MESTECH - Marine Sensing and Biofouling

(Two Year Contract)

Background

MESTECH currently has a number of key deployments (Dublin Bay x 2, Galway Bay, Milltown Lake, Tolka River, Lough Hyne Marine Reserve) which collect water quality sensor data in real-time. This data is a valuable resource for development of decision support tools, water quality assessments, visual sensing systems, algal bloom detection etc. and it requires management, validation and reducing cost of ownership. This work will focus on diatoms, and establishment of novel fouling organism assessments in parallel to sensor deployments. MESTECH will hold a repository of images of marine species topographical features and diatom images for input to outreach activities and teaching. This will be unique in Ireland and will be led from WP 10 of the Beaufort Marine Research Awards Project on Sensing and Communications Technology.

Duties and Responsibilities:
The Postdoctoral Researcher will be required to perform the following duties:

- Lead a new workpackage on sensor deployment;
- Develop the instrument deployment strategy for MESTECH including moorings, structures & communications;
- Oversee maintenance of sensors and ensure the management of all relevant data and information;
- Develop an information management system for MESTECH to deal with data from a variety of deployments;
- Develop a diatom image resource and diatom assessment methods for biofouling determination;
- Develop a topography image database for crustaceans and fish species for use in modelling studies and material design;
- Support and contribute to FP7 proposal writing in 2012 and other research calls in 2012 and 2013;
- Supervise and mentor Beaufort students;
- Produce interim and final project reports;
- Publish and disseminate results;
- Organise workshop demonstrations and outreach activities

Qualifications & Experience:
Applicants for this position must have a PhD in marine sensing technology and biofouling or a related area.

Informal enquiries to: Professor Fiona Regan Email: fiona.regan@dcu.ie

Salary: €33,975
Closing date: 25 June 2012

Application forms are available at:

www.dcu.ie/vacancies/APPLICATION_FORM_8pg.doc and from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0)1 700 5149; Fax: +353 (0)1 700 5500; Email: hr.applications@dcu.ie

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