

Research Centre Adaptive Sensors Group, INSIGHT Centre for Data Analytics
National Centre for Sensor Research, DCU

Post Title Research Assistant, Systems Integration & Rapid Prototyping

Post Duration 6 Months

Background

A 6-month Research Assistant position is available to work on the development of sensing platforms for remote environmental monitoring. Versions of these autonomous sensor systems have been extensively trialled in collaboration with the Environmental Protection Agency (EPA) and the Office of Environmental Enforcement (OEE). Funded via the National Infrastructure Access Programme (NIAP) under the SmartBay initiative (<http://www.smartbay.ie>), this position is focused on the integration of available technologies into a fit for purpose unit for remote monitoring of marine conditions, and particularly the in-situ detection and mapping of freshwater plumes in the marine environment. The successful candidate will play a substantial role in the design and fabrication of devices as well as support in their performance evaluation through field deployments. He/she will join a multidisciplinary team whose ethos is to mutual support across a range of projects, drawing on combined team expertise ranging across mechanical/electronic engineering, computer science, wireless communications, web database management, environmental science, materials science, and analytical chemistry.

Duties and Responsibilities

Reporting to his / her Principal Investigator the Research Assistant will:

- Ensure that the project objectives are delivered, specifically, the delivery, characterisation and field deployment of functioning instruments for monitoring the marine environment in the greater Galway bay region
- Work closely with pilot trial partners to install and maintain the operation of deployed platforms and to ensure data from deployments is remotely accessible via web databases in an appropriate format for their needs.
- Participate in meetings with the interested parties (e.g. end-users, external industry and academic partners) and assist in promoting the technology being brought to market (e.g. conferences and tradeshow).
- Attend, and contribute to, group meetings
- Maintain an up-to-date profile on the group website

Experience and Qualifications

Candidates should have work/postgraduate experience in which design-for-manufacture and rapid prototyping played a significant element and ideally a primary degree in mechanical/electronic or mechatronic engineering. Expertise in systems integration, 3D CAD/CAM design, and familiarity with fabrication techniques are essential. Experience microcontroller programming and web-databases would be desirable. Some experience in environmental monitoring deployments would be an advantage.

Closing Date: 8th September 2014

Salary in the range €21,850 – €25,330

Subject to experience and qualifications

Informal enquiries: contact Prof. Dermot Diamond (dermot.diamond@dcu.ie)

Application forms are available from:

Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0) 1

7005149 Fax: + 353 1 700 5500 Email: hr.applications@dcu.ie

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