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

Post Title
Research Assistant, Systems Integration
and Rapid Prototyping

Post Duration
6 Months

Background
The Adaptive Sensors Group (www.adaptivesensors.com/) is a large, multidisciplinary research unit hosted by the National Centre for Sensor Research (NCSR), in state-of-the-art facilities situated on the campus of Dublin City University. Core funding for the ASG is provided by Science Foundation Ireland through the INSIGHT Centre initiative (https://www.insight-centre.org/), supplemented by significant project based income provided by Enterprise Ireland, the Marine Institute, EPA and Industry partners. Arising from success in recent FP7 proposals, the following research position is available in the Adaptive Sensors Group at DCU.

Role
This position is focused on the delivery of electronic circuit design and fabrication for integration into functioning sensor platforms across several projects including (i) the in-situ detection and mapping of freshwater plumes in the marine environment; (ii) wearable sensors for monitoring sweat composition in real-time. The successful candidate will play a substantial role in the design and fabrication of these devices as well as support in their performance evaluation during trials. 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 trial partners to support the operation of platforms and to ensure data 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 tradeshows).
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 a primary degree in mechanical/electronic or mechatronic engineering. A background in microcontroller programming and electronic circuit design and production is essential for this position. Expertise in systems integration, 3D CAD/CAM design, and familiarity with fabrication techniques would be an advantage.

Closing Date: Thursday 2nd April 2015

Salary in the range €21,850 – €25,330  
Subject to experience and qualifications

Informal enquiries to:  
Professor Dermot Diamond, School of Chemical Sciences, DCU, Dublin 9, Ireland  
E-mail: dermot.diamond@dcu.ie  
Phone: +353 (0)1 7005404

Please do not send applications to this email address, instead apply as described below

Application Procedure
Application forms are available from the DCU Current Vacancies (open Competitions) website at http://www.dcu.ie/vacancies/current.shtml and also from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0) 1 7005149.

Applications should be submitted by email to hr.applications@dcu.ie or by Fax: +353 (0)1 7005500 or by post to the Human Resources Department, Dublin City University, Dublin 9. Human Resources Department, Dublin City University, Dublin 9. Tel: +353 1 700 5149; Fax: +353 1 700 5500 Email: hr.applications@dcu.ie

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