

Research Centre	Insight Centre for Data Analytics
Post Title	Research Assistant, Systems Integration & Rapid Prototyping
Post Duration	1 Year Full Time Fixed Term Contract

Background

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 development of fully functional sensing platforms for tracking water quality parameters in real time; (ii) generating prototype wearable sensors for monitoring body movements and/or sweat composition in real-time. The successful candidate will play a substantial role in the design and fabrication of these devices and participate 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 tradeshow).
- Attend, and contribute to, group meetings.
- Maintain an up-to-date profile on the group website.

Experience and Qualifications

Applicants should ideally have a primary degree in mechanical/electronic or mechatronic engineering and work/postgraduate experience in which design-for-manufacture and rapid prototyping played a significant element. 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: 22 February 2016

Salary range: *€22,396 – €25,936 per annum

*Appointment will be commensurate with qualifications and experience

Informal enquiries to: Professor Dermot Diamond (dermot.diamond@dcu.ie)

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://dcu.ie/hr/vacancies/current.shtml> and also from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0) 1 700 5149

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

Please clearly state the role you are applying for in your application and email subject line: Job Ref #265: Research Assistant, Systems Integration & Rapid Prototyping

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