Research Centre	**INSIGHT Centre for Data Analytics/National Centre for Sensor Research**
Post title	**Postdoctoral Researcher (Materials Quality Screening Method Development)**
Post duration	**6 month Fixed Term Contract**

Background and Role:
Arising from funding provided by an industry partner, this project is focused on the development and validation of analytical methods for characterising materials used in the production of biosensors for personal health monitoring. In the initial stages, this will involve using and array of high end analytical techniques to provide a detailed chemical profile of these materials, and identify trace amounts of contaminants that may affect the performance of the downstream product. Once established, the characterisation method(s) will be used to develop and validate a simple screening test that ideally can be implemented for real-time screening during production.

The successful candidate will work as part of the Adaptive Sensors Group (ASG). The ASG (www.adaptivesensors.com/) is a large multidisciplinary research unit hosted by the National Centre for Sensor Research (www.NCSR.ie) in state-of-the-art facilities situated on the campus in Dublin City University. Core funding for the ASG is provided by Science Foundation Ireland through the INSIGHT Centre (http://www.insight-centre.org), supplemented by significant project based income provided by Enterprise Ireland, the Marine Institute, EPA, EU-FP7 and Industry partners.

Principle Duties and Responsibilities:
Reporting to the Principal Investigator, Professor Dermot Diamond, the Postdoctoral Researcher will:

- Conduct a specified programme of research under the supervision and direction of the Principal Investigator
- Engage in the dissemination of the results of the research in which he/she is engaged with the support of and under the supervision of the Principal Investigator
- Liaise with both internal and external project stakeholders including industry and academic partners/collaborators
- Carry out administrative work associated with the programme of research as necessary

Minimum Criteria:
Applicants must have (1) a BSc in Chemistry or a commensurate subject and (2) a PhD in which analytical methods and materials characterisation was a significant component. Experience with techniques like ICP/ICP-MS and electrochemical impedance spectroscopy will be important for this project. Familiarity with reagent based analytical methods, and/or surface analysis/scanning imaging methods would be desirable.

Salary: **€37,750 - €40,003**
Subject to qualifications and experience

Closing date: 4th April 2014

Informal enquiries to:
Professor Dermot Diamond, INSIGHT, Dublin City University, Dublin 9, E-mail: Dermot.Diamond@dcu.ie

Application Procedure:
Application forms are available from the DCU Current Vacancies (Open Competitions) website at http://www4.dcu.ie/hr/vacancies/current.shtml and also 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

Applications should be submitted by e-mail 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.

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