Postdoctoral Researcher
in Vivo Optical Fiber Sensor System Development

(12 Month Contract)

Based at Dublin City University (DCU), the Biomedical Diagnostics Institute (www.bdi.ie) was established in 2005 through a Science Foundation Ireland Centre for Science, Engineering & Technology (CSET) award, in addition to significant industry funding. The BDI carries out cutting edge research focused on the development of next-generation biomedical diagnostic devices measuring indicators of disease. Our worldclass research team currently includes four industry partners (Analog Devices, Becton Dickinson, Inverness Medical Innovations and Biosurfit), and five clinical and academic partners including the Royal College of Surgeons Ireland (RCSI) in Dublin, the National Centre for Biomedical Engineering Science (NCBES) at NUI Galway, Tyndall National Institute (TNI) in University College Cork, Trinity College Dublin (TCD) and the host institution at Dublin City University (DCU).

Role: An exciting opportunity exists for a highly motivated and innovative researcher to join a multidisciplinary team developing a novel in vivo optical fibre sensor system for real-time monitoring of foetal distress. The successful candidate will be required to assist in the development, characterisation and optimization of sensor materials for this application. The candidate will also be required to develop an optical fibre-based detection platform.

Duties and Responsibilities: The duties and responsibilities associated with this position include, but are not restricted to the following:

- Assist in the formulation, characterisation and optimisation of sol-gel-based fluorescent sensor materials
- Development of optical fibre-based fluorescent detection platform
- Development of control and analysis software
- Optimization of system performance

Requirements and Qualifications:
The successful candidate must hold a PhD, ideally in the area of fibre-based optical sensing. Experience in the development of sensor materials and systems for in vivo applications would be highly desirable along with good knowledge of testing/documentation practices for regulated applications.

Location: This position will be based in the new laboratory facilities of the Biomedical Diagnostics Institute on the Dublin City University campus.

Salary: €37,750*
*Subject to experience & qualifications

Closing Date: 17th January 2013

Informal Queries:
Dr. Dorota Wencel, Tel: +353 1 7008744, E-mail: dorota.wencel@dcu.ie
Dr. Stephen O'Driscoll, Tel: +353 1 7005842, E-mail: stephen.odriscoll@dcu.ie
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 1 700 5149; Fax: +353 1 700 5500 Email: hr.applications@dcu.ie

Dublin City University is an equal opportunities employer