Dublin City University
Biomedical Diagnostics Institute, School of Physical Sciences

Postdoctoral Researcher
Integrated and Automated Microfluidic lab – on – a - Chip Platform
(12 Month Contract)

Based at Dublin City University (DCU), the Biomedical Diagnostics Institute (BDI) was established in 2005 through a Science Foundation Ireland Centre for Science, Engineering & Technology (CSET) award, in addition to significant industry funding. The Biomedical Diagnostics Institute (BDI) carries out cutting-edge research focuses on the development of novel, high-performance bioanalytical devices. Our world-class research team currently includes four industry partners (Becton Dickinson, Alere, Biosurfit and Analog Devices) and four clinical and academic institutions: the Royal College of Surgeons Ireland (RCSI) in Dublin, the National Centre for Biomedical Engineering Science (NCBES) at NUI Galway, the Tyndall National Institute (TNI) in Cork and the host institution at Dublin City University (DCU).

Role:

The Microfluidic Platforms group led by Professor Jens Ducrée is currently seeking ambitious, highly motivated Postdoctoral researcher to advance the next generation of highly integrated and automated biomedical lab-on-a-chip technologies for point-of-care / point-of-use applications. These breakthrough systems will be based on the interplay of a set of materials, components, and processes to enable multi-force liquid handling and detection.

This position will be based in the new laboratory facilities of the Biomedical Diagnostics Institute (BDI) comprising custom-designed laboratories, a new cleanroom, comprehensive polymer microfabrication facilities and a range of specialist support units on the pleasant campus of the young, dynamically evolving Dublin City University - Ireland’s University of Enterprise.

Duties and Responsibilities:
All duties are carried out under the supervision of Prof. Jens Ducrée. The deliverables of the Post Doctoral researcher's work are defined in work programmes of relevant research projects and in direct communication with the Principal Investigator.
The duties and responsibilities associated with this position include, but are not restricted to the following:

- Developing microfluidic and microfabrication technologies and systems for the project(s) assigned
- Tutoring/mentoring undergraduate and postgraduate students
- Writing manuscripts for publication in scientific journals and conferences
- Assuming project management, administrative and infrastructural responsibilities and contributing to authoring research proposals and intellectual property applications as well as their management
- Actively supporting collaboration with existing and the development of relationships with new academic and commercial partners.

Requirements and Qualifications:
The successful candidate must hold a PhD in a related field and be a productive researcher with a proactive attitude, excellent presentation and publication skills, and the proven ability to interact with a highly interdisciplinary team and our tightly linked industrial partners.

In addition, a proven background in at least one of these fields would be desirable:
- microfluidic lab-on-a-chip systems,
- polymer and film-based microfabrication (e.g. CAD design, precision engineering / milling, laser ablation, SU-8 lithography, PDMS casting, paper microfluidics, in-channel synthesis, system assembly, interfacing and bonding),
- instrumentation,
- liquid and cell handling,
- assays and detection.

Salary: €37,750 - €46,255*
*Subject to experience & qualifications

Closing Date: 19th July 2013

Informal queries and further information:
Prof. Jens Ducrée, E-mail: jens.ducree@dcu.ie
www.bdi.ie and www.dcu.ie/microfluidics

Application procedure:
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

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