



BIOMEDICAL DIAGNOSTICS INSTITUTE

www.bdi.ie

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 Biomedical Diagnostics Institute (BDI) carries out cutting-edge research focused on the development of next-generation biomedical diagnostic devices measuring early-warning indicators of disease. Our world-class research team currently includes seven international industry partners (Analog Devices, Amic, Biosurfit, Enfer Technologies, Hospira, Becton Dickinson & Inverness Medical Innovations) and four national 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).

The Microfluidic Platforms group led by Professor Jens Ducree is currently seeking ambitious, highly motivated researchers to develop next-generation lab-on-a-chip platforms for life-science applications in a highly interdisciplinary environment.

Several **postgraduate (PhD) positions** are available in the fields of:

1. **Development of Cutting-Edge Lab-on-a-Chip Technologies**
2. **Polymer Microfabrication of Smart System Integrated Microfluidic Devices**
3. **Cell-Based Assays, Drug Screening and Systems Biology on a Chip**

Requirements: Candidates should demonstrate the capacity to be productive researchers. A self-starting attitude, good presentation skills, and the ability to interact with a highly interdisciplinary team are essential. A background in at least one of the following fields is desirable: microfluidic lab-on-a-chip systems, related microfabrication techniques including lithographic or direct mastering, polymer replication, surface functionalization, bonding and reagent storage as well as methods involved in nucleic acid testing, proteomics, immunoassays, metabolomics and cell research.

Location: This position will be based in the brand new laboratory facilities of the BDI comprising custom-designed laboratories, a new cleanroom, comprehensive (polymer) microfabrication facilities and a range of specialist support units situated on the pleasant campus of the modern, dynamically evolving Dublin City University.

Dublin is embedded in the beautiful landscapes of the green "Emerald" island on the breathtaking shores of the Irish sea. The Dublin metropolitan area of has been considered in many recent surveys as one of the hottest and most desirable cities to live!

Enquiries: Jens Ducree (jens.ducree@dcu.ie)

Applications: should be sent in the form of a CV including two referees & cover letter, by email to Dr Tracy Dixon (tracy.dixon@dcu.ie).

