



BIOMEDICAL DIAGNOSTICS INSTITUTE

www.bdi.ie

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 biomedical diagnostic devices measuring indicators of disease. Our world-class research team currently includes seven industry partners (Becton Dickinson, Alere, Biosurfit, Millipore 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).

Postdoctoral position: Microfluidic Lab-on-a-Chip Systems for Direct, High-Sensitivity Biomolecular Detection of Early-Stage Disease Markers

The Microfluidic Platforms group led by Professor Jens Ducreé is currently seeking ambitious, highly motivated researchers to leverage breakthrough lab-on-a-chip technologies for early-stage detection of cancer and infectious diseases. In collaboration with top-ranking researchers from National University of Ireland Galway (NUIG), the integrated microfluidic chip will pre-condition whole blood for direct biomolecular detection by probes tagged to high-brightness nanoparticles. The cutting-edge technology will be advanced towards a commercial point-of-care platform.

Requirements: A proven background in at least one of these fields would be desirable: microfluidic lab-on-a-chip systems, polymer microfabrication (e.g. CAD design, precision engineering / milling, laser ablation, SU-8 lithography, PDMS casting, system assembly, interfacing and bonding), instrumentation, cell handling, assays and detection. The successful candidate will be a productive researcher with a self-starting attitude, good presentation and publication skills, and the ability to interact with a highly interdisciplinary team and our tightly linked industrial partners.

Location: 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. Dublin is embedded in the beautiful landscapes of the green "Emerald" island on the breath taking shores of the Irish sea.

Further Information: www.bdi.ie and www.dcu.ie

Enquiries: Prof. Jens Ducreé (jens.ducree@dcu.ie)

Applications: should be sent in the form of a CV including two referees & cover letter, by email to Ms Celine Heffernan (celine.heffernan@dcu.ie).

