Research Centre: Fraunhofer Project Centre for Embedded Bioanalytical Systems at Dublin City University – a joint initiative of Science Foundation Ireland and Fraunhofer

Post title: Technical Officer Supporting manufacture, characterization and system-level testing of microfluidic “Lab-on-a-Chip” systems

Post duration: Fixed Term up to Dec 31st 2019

DCU has a strong record in attracting both Irish and European Union research funding under Horizon 2020 (and previous Framework Programmes), Marie Curie Actions and Erasmus. We offer a dynamic and internationally-focused environment in which to advance your career.

An exciting job opportunity in a very innovatively spirited, commercially focussed research centre within Dublin City University (DCU) – Ireland’s University of Enterprise. The technology-led centre engineers next-generation life-science technologies for the benefit of people and societies. In this role, you will have access to competent technical, infrastructural and administrative support, and the opportunity to evolve a multi-faceted skill set in an environment where you closely collaborate with leading Irish and international companies and research organisations. You support the commercially driven development of microfluidics-based “Lab-on-a-Chip” systems for decentralised bioanalytical testing towards high technology readiness levels. The position is based in the Fraunhofer Project Centre for Embedded Bioanalytical Systems at Dublin City University (FPC@DCU), a joint initiative of Science Foundation Ireland and Fraunhofer-Gesellschaft. In close collaboration with the Fraunhofer Institute for Production Technology (IPT) in Germany, FPC@DCU develops typically microfluidics-based solutions for applications such as in-vitro (“point-of-care”) diagnostics, pharma, agrifood and environmental monitoring.

Technical Officer / Senior Technical Officer

The successful candidate can demonstrate the ability to apply experience in precision engineering, microfabrication, assembly and characterization / validation technologies to support the efficient development of predominantly polymeric microfluidic devices. You will also be familiar with the underlying design and manufacturing software such as Solidworks and AutoCAD and show a keen interest to contribute to FPC@DCU’s commercial “fit-for-industry” focus.
**Duties and Responsibilities:**
Reporting to the centre director or a manager appointed by him/her on the duties and responsibilities attaching to the post include, but are not restricted to, the following:

- Implementation of CAD/CAM design for microfluidic platforms, which have been engineered by the research team at the FPC@DCU.
- Development and implementation of microfabrication techniques such as CNC precision milling, 3D printing and laser machining.
- Support in the development and implementation of assembly and bonding techniques of microfluidic devices.
- Characterisation of materials, (semi-finished) parts, components and systems.
- Operation and maintenance of microfabrication equipment and infrastructure.
- Management of equipment bookings for the microfabrication equipment suite and associated administrative tasks.

**Desired Skills and Experience:**
The successful candidate must hold an honours degree (NFQ Level 8) in a relevant discipline and should have at least 1 year of relevant experience. Under overall guidance of a researcher, you should have a proven track record of working in a team as well as handling aspects of research independently. Familiarity with the operations of a scientific / engineering laboratory environment would be desirable. A self-starting attitude, good interpersonal skills and high technical expertise are a prerequisite.

**Salary range**: €32,066 - €37,865

*Appointment will be commensurate with qualifications and experience according to the appropriate point of the salary scale, in line with current Government pay policy.

**Closing date**: Thursday July 27th 2017

**Informal enquiries to**: Prof. Jens Ducrée (jens.ducree@dcu.ie)

*Please do not send applications to this email address, instead apply as described below*
Application forms are available from the DCU Current Vacancies (open Competitions) website at https://www.dcu.ie/hr/vacancies/current.shtml and also from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0) 1 700 5149.
Applications should be submitted by email 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. Human Resources Department, Dublin City University, Dublin 9. Tel: +353 1 700 5149; Fax: +353 1 700 5500 Email: hr.applications@dcu.ie

Please clearly state the role that you are applying for in your application and email subject line: Job Ref 616 Technical Officer Supporting manufacture, characterization and system-level testing of microfluidic “Lab-on-a-Chip” systems

Dublin City University is an equal opportunities employer