




**Research Centre** Fraunhofer Project Centre for Embedded Bioanalytical Systems at Dublin City University (FPC@DCU) – a joint initiative of Science Foundation Ireland and  **Fraunhofer**

**Post title** Research Fellow – Microfluidic systems

**Level on Framework** Level II

**Post duration** Fixed term until 31 December 2019

### **Research Career Framework**

As part of this role the researcher will be required to participate in the DCU Research Career Framework <http://dcu.ie/hr/ResearchersFramework/index.shtml>. This framework is designed to provide significant opportunities to researchers for professional development to open a wider career path.

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

We offer an exciting senior research position in a very innovative, applied research initiative in Dublin City University – Ireland’s University of Enterprise. FPC@DCU – the Fraunhofer Project Centre for Embedded Bioanalytical Systems at Dublin City University - 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 skillset in an environment where you closely collaborate with world-class Irish and international companies and research organisations. Further career opportunities will arise with the success of the FPC.

### **Background & Role**

You develop microfluidics-based systems towards high technology readiness levels (TRLs) in collaboration with the Fraunhofer Institute for Production Technology (IPT) in Germany. FPC@DCU – Ireland’s first Fraunhofer initiative - operates at the challenging crossroads of microsystems engineering and the life sciences. Common fields of application are in-vitro (“Point-of-Care”)

diagnostics, pharma, life-science research, agrifood and environmental monitoring. Furthermore, you will lead research projects within FPC@DCU and support its business development and project management teams in their interactions with industry, academia and funding agencies.

### **Principal Duties and Responsibilities**

- Technical management and reporting of research projects
  - Development of microfluidic “Lab-on-a-Chip” systems supported by through design experimental characterisation, modelling and simulation
  - Development of advanced manufacturing processes for high-TRL, polymer-based microfluidic systems
  - Development of support instrumentation / optical detection platforms
  - Bioassay optimisation on microfluidic “Lab-on-a-Chip” systems;
- Support of project acquisition from industry and funding agencies;
- Support of project management, reporting and interactions with partners;
- Internal technical reporting on projects;
- Authoring of scientific publications and marketing activities;
- Related administrative tasks.

### **Minimum Criteria**

Applicants must have a PhD and at least 4 years of relevant postdoctoral research experience or equivalent at Level II of the Research Career Framework.

**Salary: €53,243 – €58,016**

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

**Closing date:** 1<sup>st</sup> October 2018

### **Candidates will be assessed on the following competencies:**

- **Discipline knowledge and Research skills** – Demonstrates the ability to design and implement part of a programme of research (for example by using critical thinking and the application of relevant research methodologies).
- **Understanding the Research Environment** – Demonstrates a thorough understanding of the research environment both nationally and internationally and the ability to contribute substantially to grant applications.
- **Communicating Research** – Demonstrates the ability to communicate their research effectively to the research community and wider society (for example by publishing

their research in high quality peer reviewed journals) and the ability to teach and tutor students.

- **Managing & Leadership skills** - Successfully manages research projects including the management and supervision of postgraduates and/or junior research and technical staff.

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

**Application Procedure:**

Application forms are available from the DCU Current Vacancies (Open Competitions) website at <http://www4.dcu.ie/hr/vacancies/current.shtml> and also from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0)1 700 5149; Fax: +353 (0)1 700 5500 Email: [hr.applications@dcu.ie](mailto:hr.applications@dcu.ie)

Applications should be submitted by e-mail to [hr.applications@dcu.ie](mailto: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.

**Please clearly state the role that you are applying for in your application and email subject**

**line: Job Ref# 994 Research Fellow – Microfluidic Systems**

*Dublin City University is an equal opportunities employer*