



<b>Research Centre</b>	Fraunhofer Project Centre for Embedded Bioanalytical Systems at Dublin City University (FPC@DCU) – a joint initiative of Science Foundation Ireland and  <b>Fraunhofer</b>
<b>Post title</b>	Research Fellow (Two Positions)
<b>Level on Framework</b>	Level 2
<b>Post duration</b>	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 professional development opportunities to researchers and offer the best opportunities in terms of 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 to advance your academic career.

An exciting research position in a very innovative, applied research initiative embedded in Dublin City University – Ireland’s University of Enterprise. The technology-led FPC 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**

To develop microfluidics-based systems towards high technology readiness levels (TRLs) within the Fraunhofer Project Centre (FPC) for Embedded Bioanalytical Systems planned established at Dublin City University (DCU) in collaboration with the Fraunhofer Institute for Production Technology (IPT) in Germany. The FPC 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 support the business development and project management teams of the FPC@DCU in their interactions with industry, academia and funding agencies.

## Principal Duties and Responsibilities

Reporting to the Director of the FPC@DCU, the Research Fellow will:

- Take a lead role in managing one or more of the Core or Pilot Applications programmes of the FPC@DCU under the supervision of the Director.
- Be responsible for building a portfolio of projects in **one** of the focus areas of the FPC@DCU: nucleic acid testing, cell and bioparticle-based assays, and small molecule/immunoassays.
- Identify and secure external sources of funding and manage budgets and resources accordingly, focusing on the achievement of FPC@DCU funding targets for industry and public funding.
- Drive technical collaboration within the relevant areas of research focus with the FPC Mirror Group at Fraunhofer IPT, Aachen
- Represent the FPC@DCU at international conferences and tradeshows, as required.
- Disseminate the outcomes of the research in which he/she is engaged including publishing in high quality peer reviewed journals of international standing.
- Manage and supervise research groups and teams, in particular, teams of researchers comprising junior postdocs, summer interns, undergraduate and PhD students.
- Engage in appropriate training and development opportunities as required by the Director, the FPC@DCU, or the University.
- Manage and conduct administrative and management tasks associated with your programme of research.
- Provide support and advice to PhD students and postdocs working on similar topics.
- Participate in FPC@DCU activities, such as industry showcases and annual reviews.

## Minimum Criteria

Applicants must have a PhD and a minimum of 4 years relevant postdoctoral research experience or equivalent at Level 1 of the Research Career Framework. Previous experience at the level of Research Fellow (or equivalent) is preferred. In addition, it is essential that the candidate has a subset of the following skills:

- Sample preparation protocols for molecular diagnostics and/or next gen sequencing (NGS)
- Cell biology and/or cell-based experimentation
- Polymer microfluidic platform design and manufacture using rapid prototyping techniques
- Optoelectronics instrumentation development
- Software experience: CAD/CAM; LabVIEW; Matlab (one or more of these or related tools)

**Salary:** €51,716 – €56,442

*\*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:** 3<sup>rd</sup> July 2017

**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](mailto:jens.ducree@dcu.ie) )

**Application Procedure:**

Application forms are available from the DCU Current Vacancies (External 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 7005149.

Applications should be submitted by email to [hr.applications@dcu.ie](mailto:hr.applications@dcu.ie) or by Fax: +353 (0)1 7005500 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](mailto:hr.applications@dcu.ie)

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

**line: Job Ref # 588 Research Fellow, Fraunhofer Project Centre for Embedded Bioanalytical**

Systems at Dublin City University (FPC@DCU)

***Dublin City University is an equal opportunities employer***