



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

Post title Research Assistant – Development of instrumentation for bioanalytical systems and test environments for microfluidics and microfabrication

Post duration Fixed Term Contract up to 31 December 2019

Background & Role

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@DCU 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 FPC@DCU.

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

Principal Duties and Responsibilities

Reporting to the FPC@DCU Centre Director or manager appointed by him:

duties will include but will not be limited to:

- Mechanical / Electronic / Software Design and Assembly / Upgrade / Maintenance of FPC@DCU's instruments and test-beds.
- Development of portable demonstrator instruments. This will include specification of components, assembly, design of components for milling and 3D printing.
- Assist design, manufacture, assembly and testing of next-generation microfluidic lab-on-a-chip systems.
- Interaction with project partners on outsourced small-scale production processes.
- Interact closely with FPC@DCU research staff and postgraduate students associated.
- Support collaboration with industry in areas relevant to the FPC@DCU.

Minimum Criteria

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 - Primary degree in a relevant discipline
 - Experience with the LabVIEW development environment advantageous using CAD software (preferably SolidWorks).
- Desirable
 - M.Sc. / M. Eng. in an engineering or physics-related experimental field.
- One or more of the following will be advantageous to applicants:
 - Experience in prototype instrumentation design and assembly.
 - Experience in developing prototype optical measurement instrumentation such as fluorescent detection and absorbance measurements.
 - Understanding of polymer microfabrication techniques and rapid prototyping.
 - Working experience in a research active environment.
 - Hands-on experience in a research laboratory, particularly related instrumentation for bioanalytical methods (e.g. nucleic-acid based testing, ELISA, or cell analysis).

Salary: €21,674 -34,269

**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: 8th October 2018

Informal enquiries to: Barry Byrne (barry.byrne@dcu.ie)

Please do not send applications to this email address, instead apply as described below.

Application Procedure:

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 7005149.

Please clearly state the role that you are applying for in your application and email subject line: Job Ref 1002 Research Assistant - Development of instrumentation for bioanalytical systems and test environments for microfluidics and microfabrication, Fraunhofer Project Centre

Applications should be submitted by email to 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

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