




**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 ultraprecision / micromilling, prototyping, assembly and characterization of microfluidic “Lab-on-a-Chip” systems

**Post duration:** Fixed Term up to 18 Months

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.

We offer an exciting technical position in a very innovative, applied research driven Fraunhofer Project Centre for Embedded Bioanalytical Systems at Dublin City University. In collaboration with the Fraunhofer Institute for Production Technology (IPT) in Germany, “FPC@DCU” engineers next-generation life-science technologies for the benefit of people and societies. 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.

### **Technical Officer**

The successful candidate can demonstrate the ability to apply experience in (ultra-)precision machining, microfabrication, assembly and characterization / validation technologies to support the efficient development of predominantly polymeric microfluidic devices towards high technology readiness levels. 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 on the duties and responsibilities attaching to the post include, but are not restricted to, the following:

- Development and implementation of CNC (ultra) precision milling techniques for microfluidic systems.
- Implementation of CAD/CAM design for microfluidic platforms, which have been engineered by the research team at the FPC@DCU.
- Operation and maintenance of microfabrication equipment and infrastructure.
- Characterisation / validation of materials, (semi-finished) parts, components and systems.

- Ownership of the ultra-precision machining centre (UPM), managing equipment bookings and training, where appropriate.

**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 select aspects of research independently. Beyond CNC micromilling, familiarity with common polymer replication and assembly techniques such as injection moulding, hot embossing and common bonding schemes would be a distinct advantage. Experience of working in a scientific / engineering laboratory environment would also be desirable. A self-starting attitude, good interpersonal skills and high technical expertise are a prerequisite.

**Salary range:** \* €32,066 - €36,652

\*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:** 17<sup>th</sup> November 17

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

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

**Application Procedure:**

Applications should include a CV and covering letter and be submitted with the application form as outlined. 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](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. 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 676 Technical Officer Fraunhofer Project Centre**

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