



Applications are invited from suitably qualified candidates for the following position:

#RF1263 Research Engineer / Postdoctoral Researcher in Systems integration and control, instrumentation, fluidic flow control implementation and testing (Research Assistant or Postdoctoral Researcher Level 1)

Fraunhofer Project Centre for Embedded Bioanalytical Systems (FPC@DCU)

Fixed term 12 months

This position is open to candidates who meet the following criteria:

Applicants must have a solid technical expertise in instrumentation, systems control & integration and communication esp. for dealing with microfluidic systems and have a track record of successful research and development projects and of bringing prototypes from concept to functional products. Industry experience in the key areas is highly desirable. A background in a subset of the following areas is required:

- A Ph.D. or MSc with a Bachelor Degree in Electrical/ Mechanical / Biomedical Engineering /Physics or related Engineering/ Science degree.
- Demonstrable experience designing electro-mechanical systems integration platforms and cross-interactivity of sensors and flow control preferably in the centrifugal microfluidics space.
- Solid working knowledge of designing with hardware and software communication interfaces for multi-sensor platforms, SolidWorks and Electronics/software interfacing of devices with hands-on ability to build, test and validate functional prototypes preferably to the TRL of a spin-out company.
- Design, development and system level integration of microfluidic platform with actuation, temperature and centrifugal flow control systems among others.
- Understanding of polymer microfabrication techniques and rapid prototyping for microfluidics.
- Understanding of handling biological fluids (esp. Nucleic Acids towards next gen sequencing) and protocols associated with their chemistries esp. on a microfluidic system.

Salary: €22,109-€34,612 (Research Assistant scale) or €37,223 - €40,661 (Postdoctoral Researcher scale)

*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: 3rd September 2019

Candidates will be assessed on the following competencies:

Discipline specific knowledge and Research Skills (demonstrates knowledge of a research discipline and the ability to conduct a specific programme of research within that discipline)

Communicating Research (Demonstrates the ability to communicate their research with their peers and the wider research community (for example presenting at conferences and publishing research in relevant journals) and the potential to teach and tutor students)

Managing & Leadership skills (demonstrates the potential to manage a research project including the supervision of undergraduate students)

Understanding the Research Environment (demonstrates an awareness of the research environment (e.g. funding bodies) and takes responsibility for how their research is conducted)

Informal Enquiries in relation to this role should be directed to:

Dr. Rohit Mishra - rohit.mishra@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 <http://www.dcu.ie/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 e-mail to hr.applications@dcu.ie or by Fax: +353 (0)1 700 5500 or by post to the Human Resources Department, Dublin City University, DCU Glasnevin Campus, Dublin 9, D09W6Y4.

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