

Research Centre:	Adaptive Sensors Group, INSIGHT Centre for Data Analytics National Centre for Sensor Research (NCSR)
Post Title:	Research Fellow
Level on the Framework:	Level II
Post Duration:	Fixed Term Contract up to 2 Years

Research Careers Framework

As part of this role the researcher will be required to participate in the DCU Research Career Framework <http://www.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.

Overview

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.

The Adaptive Sensors Group (ASG, see www.dcu.ie/chemistry/asg/) is a large, multidisciplinary research unit hosted by the National Centre for Sensor Research (NCSR), in state-of-the-art facilities situated on the campus of Dublin City University. Core funding for the ASG is provided by Science Foundation Ireland through the Insight Centre (<https://www.insight-centre.org>), supplemented by significant project based income provided by Enterprise Ireland, the Marine Institute, The EPA, EU-FP7, and Industry partners.

The successful candidate will play a leading role in advancing the group's research in Analytical platform development, specifically oversight of engineering integration and rapid prototyping, microfluidics, electrochemical and optical sensing, analytical characterisation of prototype devices and organisation of validation trials. This position is funded under the Enterprise Ireland Innovation Partnership programme (**Customisable Environmental Monitoring Platforms Based on 3D Printed Microfluidics, Contract No: IP 2016 0502**), in partnership with TE Laboratories, Co. Carlow, and will have a particular focus in the use of emerging 3D printing for customised optimisation of microfluidics chips for chemical sensing at specific locations.

Duties and Responsibilities:

Reporting to the PI, the successful candidate will;

- Deliver the technical and administrative deliverables associated with the project
- Maintain close interaction with the industry partner throughout the project
- Assist with management and administration research of related projects, through co-supervision of postgraduate students, generation of technical and administrative reports, and organisation of/attendance at project meetings.
- Develop and deliver teaching material for short courses targeting academic and industry participants.
- Deliver teaching modules for degree courses as agreed with the project PI and relevant head of School.
- Participate in the DCU Researcher Career Development process
- Attend EU H2020 information events; Identify funding opportunities and prepare, submit, and coordinate H2020 funding proposals
- Manage relationships with external industry and academic partners
- Attend and contribute to ASG meetings and maintain an active profile on the ASG/NCSR website
- Contribute positively to the overall research reputation of the ASG, and through it, INSIGHT and the NCSR.

Minimum Criteria

Applicants should have a primary degree in which materials science/engineering or analytical (environmental) chemistry was a significant component, and a PhD in which aspects of polymer microfluidic platform design and fabrication played a significant part. Applicants should have a minimum of 4 years relevant postdoctoral research experience or equivalent at Level 1 of the Research Career Framework.

In addition applicants must have convincing evidence of previous leadership qualities through, for example, supervision of PhD students and/or research assistants, managing research projects and generating research income.

Salary: Up to €51,716

Appointment will be commensurate with qualifications and experience

Closing date: 17th March 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 staff

Informal enquiries to:

Professor Dermot Diamond dermot.diamond@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.

Please clearly state the role that you are applying for in your application and email subject line: Job Ref #506 Research Fellow, Adaptive Sensors Group, INSIGHT Centre for Data Analytics, National Centre for Sensor Research (NCSR)

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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