

**Postdoctoral Researcher, Materials Chemistry
(2 year contract)**

**Adaptive Sensors Group
Dublin City University**

Overview

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 CLARITY CSET (www.clarity-centre.org), supplemented by significant project based income provided by Enterprise Ireland, the Marine Institute, The EPA, EU-FP7, and Industry partners.

The group's research strategy in materials chemistry research is to closely align activity in fundamental and applied research that will ultimately lead to breakthroughs impacting on sensor web technologies, and particularly futuristic analytical devices capable of long-term autonomous operation. Examples include polymers with switchable binding capacity, control of liquid movement, polymer pumps and valves, new materials for energy generation and storage, and molecular devices.

Due to continuing success, particularly with respect to Industry-partnered projects, a **Postdoctoral Researcher** position has been established to expand our research effort in **Fundamental and Applied Materials Chemistry**.

Duties and Responsibilities

Reporting to Professor Dermot Diamond, he/she will;

- Build research capacity in pure and applied Materials Chemistry through generation of external research income from National programmes, FP7 and Industry.
- Manage and administer research projects, through co-supervision of postgraduate students, generation of technical and administrative reports, and organisation of/attendance at project meetings.
- Attend FP7 information events; prepare, submit, and coordinate FP7 funding proposals
- Manage relationships with external industry and academic partners
- Contribute positively to the overall research reputation of the ASG, and through it, CLARITY and the NCSR.

Experience and Qualifications:

Candidates should have a primary degree in which materials chemistry, synthetic chemistry, polymer chemistry or analytical chemistry was a significant component, and a doctorate in which aspects of fundamentals and applications of advanced materials/polymer chemistry in sensors, actuators, microfluidics or analytical devices played a significant part. Current research is focused on materials (molecules, polymers, surfaces, gels ...) whose properties (flexibility, surface charge, wettability, contact angle, host-guest binding, viscosity, dimensions....) change dramatically when exposed to an external stimulus (photonic, electronic, magnetic, heat...), Applications from candidates with a strong background in ionogel chemistry and/or switchable polymers would be particularly welcome. Ideally, candidates should have at least two years postdoctoral experience and convincing evidence of previous leadership qualities through, for example, supervision of research or project students, and management of projects.

Informal enquiries to:

Please contact Professor Dermot Diamond for further information.

Email: dermot.diamond@dcu.ie

Closing date: 6th May 2011

Salary scale: €37,750 - €43,643

Subject to qualifications and experience

This salary scale may be affected by the provisions of the 2011 Budget.

Application forms are available at:

http://www.dcu.ie/vacancies/APPLICATION_FORM_8pg.doc and from the 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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