

<b>Research Centre</b>	School of Chemical Sciences / National Centre for Sensor Research (NCSR)
<b>Post title</b>	Postdoctoral Researcher in Surface Enhanced Raman Substrates Development
<b>Level on Framework</b>	Level 1
<b>Post duration</b>	Fixed Term Contract - 1 year

### **Research Career 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**

The National Centre for Sensor Research (NCSR) is a large, multidisciplinary research unit based in state-of-the-art facilities situated on the campus of Dublin City University. Arising from success in recent proposals we are now seeking application for the following research position in DCU.

### **Background and Role**

We are seeking a scientist with experience in both experimental and theoretical surface enhanced Raman spectroscopy to work as part of a multidisciplinary team on an ambitious project focused on development of novel lipid membrane models for drug discovery applications.

The role is focused on developing and modelling metal nanostructured array platforms for Surface Enhanced Raman Spectroscopy of lipid membranes and their drug interactions. The project forms part of a project funded through Science Foundation Ireland's Investigator Programme.

The duration of this role will be 1 year.

## Principal Duties and Responsibilities

Reporting to his/her Principal Investigator the Postdoctoral Researcher will:

- Conduct, with a very high degree of technical competence a specified programme of research and scholarship under the supervision and direction of the Principal Investigator
- Disseminate the outcomes of the research in which he/she is engaged including publishing in high quality peer reviewed journals of international standing.
- Support the PI and research group in the design and development and implementation of the broader research programme.
- Support if required, the development of proposals for research funding.
- Take responsibility as requested for day-to-day advice and support of graduate research students associated with your research group.
- Mentor, assist and train as appropriate and as directed, the research graduate students and more junior postdoctoral fellows within the group.
- Contribute to reporting, site visit preparation and other administrative management work associated with your programme of research and the research group
- Contribute to teaching and outreach activities of the group.
- Liaise with stakeholders such as industry and collaborators.
- Engage in appropriate training and development opportunities as required by the Principal Investigator, the School or Research Centre, or the University
- Carry out administrative work associated with the programme of research as necessary

## Minimum Criteria

The candidate should have a PhD in chemistry, physical chemistry or related discipline with significant experience in preparation of plasmonic metal substrates for SERS and in computation analysis (numerical simulation) of plasmonic fields of SERS substrates.

The candidate should have experience in Raman spectroscopy/microscopy, numerical simulation and nanofabrication, experience in fluorescence microscopy/lifetime imaging would also be an advantage

The candidate should be capable of working independently with a high degree of technical competence whilst also being a team player, he/she must demonstrate initiative, be hard working, versatile and productive. S/he should have good communication and organisational skills.

**Salary:** \*€37,750 - €46,255 per annum

*\* Appointments will be commensurate with qualifications and experience, and will be made on the appropriate point of the salary scales, in line with current Government pay policy*

**Closing date:** 21 March 2016

**Candidates will be assessed on the following competencies:**

**Discipline knowledge and Research skills** – Demonstrates knowledge of a research discipline and the ability to conduct a specific programme of research within that discipline.

**Understanding the Research Environment** – Demonstrates an awareness of the research environment (for example funding bodies) and the ability to contribute to grant applications.

**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.

**Informal enquiries to:** Professor Tia Keyes, School of Chemical Sciences, DCU, Dublin 9, Ireland E-mail: [tia.keys@dcu.ie](mailto:tia.keys@dcu.ie) Phone: +353 (0)1 7005298

*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 284 Postdoctoral Researcher in Surface Enhanced Raman**

**Substrates Development**

Applications should be submitted by email to [hr.applications@dcu.ie](mailto: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](mailto:hr.applications@dcu.ie)

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

