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

Research Centre	School of Chemical Sciences
Post title	Postdoctoral Researcher Surface Science
Level on Framework	Level 1
Post duration	27 months fixed term contract

Dublin City University

Dublin City University (DCU) is a young, ambitious and vibrant university, with a mission 'to transform lives and societies through education, research, innovation and engagement'. Known as Ireland's 'University of Enterprise', DCU is a values-based institution, committed to the delivery of impact for the public good. DCU was named Sunday Times Irish University of the Year 2021.

DCU is based on three academic campuses in the Glasnevin-Drumcondra region of north Dublin. More than 18,000 students are enrolled across five faculties – Science and Health, DCU Business School, Computing and Engineering, Humanities and Social Sciences and DCU Institute of Education.

DCU is committed to excellence across all its activities. This is demonstrated by its world-class research initiatives, its cutting-edge approach to teaching and learning, its focus on delivering a transformative student experience, and its positive social and economic impact. The university continues to develop innovative programmes in collaboration with industry, such as the DCU Futures suite of degrees, which are designed to equip graduates with the skills and knowledge required in a rapidly evolving economy.

DCU's pursuit of excellence has led to its current ranking among the top 2% of universities globally. It is also one of the world's Top Young Universities (QS Top 100 Under 50, Times Higher Top 150 Under 100). In the Times Higher Education University Impact Rankings 2021, DCU ranked 23rd in the world for its approach to widening participation in higher education and its ongoing commitment to eradicating poverty, while it ranks 38th globally for its work in reducing inequality and 89th globally for gender equality.

The university is ranked 23rd in the world and first in Ireland for its graduate employment rate, according to the 2020 QS Graduate Employability Rankings. Over the past decade, DCU has been

the leading Irish university in the area of technology transfer, as reflected by licensing of intellectual property.

As part of this role the researcher will be required to participate in the DCU Research Career Framework. This framework is designed to provide significant professional development opportunities to Researchers and offer the best opportunities in terms of a wider career path.

Background & Role

The School of Chemical Sciences at Dublin City University invites applications for a postdoctoral researcher in surface science to work on a collaborative project on the development and testing of nano- and microstructured membranes. The position is available from October 2022, for 27 months (until the end of December 2024).

The project is in collaboration with researchers in University College Dublin School of Chemical and Bioprocess Engineering and is highly multidisciplinary in its nature.

Principal Duties and Responsibilities

Please refer to the job description for a list of duties and responsibilities associated with this role.

Minimum Criteria

Applicants should have a PhD in chemistry or materials science. Previous experience at post-doc level would be an advantage.

The ideal candidate will have experience in working in the area of polymer-based surface science and characterization using a range of microscopic and spectroscopic techniques, as well as extensive experience testing materials at the bio-interface, specifically with bacterial cell lines. Previous experience in working on projects connected to industrial applications will be an advantage.

In addition, it is desirable that the individual has experience in:

- Electrospinning and spin-coating
- Surface characterisation techniques like WCA, SEM, FTIR, AFM, XPS etc.
- Leadership in a post-doctoral position, including setting up and establishing new techniques in a lab
- Working independently and making decisions on the design and implementation of experiments
- A range of bacterial cell culture techniques and experimental design and an understanding of bacterial assay development
- Interpretation and analysis of bacteria/surface interactions
- Working on collaborative, multidisciplinary projects
- Knowledge in membrane technology would be an advantage
- Excellent team working and presentation skills
- Paper and report writing, time management and working to deadlines

Essential Training

The postholder will be required to undertake the following essential compliance training: Orientation, Health & Safety and Data Protection (GDPR). Other training may need to be undertaken when required.

Salary Scale:

IUA Postdoctoral Researcher Salary Scale - €39,523.00- €51,035.00

Appointment will be commensurate with qualifications and experience and in line with current Government pay policy

Closing date: 7th September 2022

For more information on DCU and benefits, please visit Why work at DCU?

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

Dr Susan Kelleher, School of Chemical Sciences, Dublin City University.
Phone + 353 (0)1 7005409
Email: susan.kelleher@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 website at
https://www.dcu.ie/hr/vacancies-current-vacancies-external-applicants

Applications should be submitted by e-mail with your completed application form to
hr.applications@dcu.ie

Please clearly state the role that you are applying for in your application and email subject line: Job Ref #RF1727 Postdoctoral Researcher Surface Science

Dublin City University is an equal opportunities employer. In line with the Employment Equality Acts 1998 – 2015, the University is committed to equality of treatment for all those who engage with its recruitment, selection and appointment processes. The University's Athena SWAN Bronze Award signifies the University's commitment to promoting gender equality and addressing any gender pay gaps. Information on a range of university policies aimed at creating a supportive and flexible work environment are available in the DCU Policy Starter Packs