JOB DESCRIPTION

Assistant Professor in Computational Chemistry
School of Chemical Sciences
Faculty of Science and Health
Permanent

Dublin City University

Dublin City University (DCU) is a leading innovative European University. It is proud to be one of the world's leading Young Universities and is among the world's top 2% globally. DCU is known as Ireland's University of Impact, with a mission to 'transform lives and societies' and focuses on addressing global challenges in collaboration with key national and international partners and stakeholders.

DCU has over 20,000 students in five faculties spread across three academic campuses in the Glasnevin-Drumcondra area of North Dublin. Thanks to its innovative approach to teaching and learning, the University offers a 'transformative student experience' that helps to develop highly sought-after graduates. DCU is currently No. 1 in Ireland for Graduate Employment Rate, and for graduate income (CSO).

DCU is a research-intensive University and is home to a number of SFI-funded Research Centres. The University participates in a range of European and international research partnerships. DCU is also the leading Irish university in the area of technology transfer as reflected by licensing of intellectual property.

As a 'People First' institution, DCU is committed to Equality, Diversity and Inclusion - a University that helps staff and students to thrive. The University is a leader in terms of its work to increase access to education, and is placed in the world's Top 10 for reducing inequalities in the Times Higher Education Impact Rankings.

Overview of the department

The School of Chemical Sciences, is one of Ireland's most progressive and highest achieving Schools with outstanding facilities, housed within a modern and dynamic city campus. Our goal is to develop graduates with the ability to critically evaluate, and then to solve, chemical and pharmaceutical problems, preparing the highest quality graduates capable of meeting the challenges of modern industry and research. The School is highly successful at attracting large scale research funding, with our researchers having roles within nationally significant university/industry collaborative initiatives and European funded Integrated Training Networks. The School of Chemical Sciences is one of the leading academic schools within DCU. The School undergraduate programmes include the BSc in Analytical Science, the BSc in Chemical and Pharmaceutical Sciences, and the BSc in Chemistry with

Artificial Intelligence. The School also contributes to the BSc in Environmental Science & Technology and BSc in Science Education.

Role Profile

The School plans to make an appointment at Assistant Professor level in Computational Chemistry (permanent post), who will enhance and consolidate research in at least one of its three key research themes: Climate Action – Energy, Water & Sustainability; Advanced Materials & Devices; Therapeutics & Diagnostics. The successful individual will also be expected to contribute to teaching, curriculum development, and administrative activities in the School, across all levels.

The appointee will also be expected to assist the School in implementing an innovative curriculum project, specifically delivering into the new bachelor programme in Chemistry with Artificial Intelligence. The candidate will report to the Head of School and work closely with other colleagues.

Ideally the successful candidate will be able to commence in January 2024.

Duties and Responsibilities

The duties and responsibilities of the position include, but are not restricted to, the following:

Teaching and Learning

The appointee will teach computational chemistry across lectures and practical modules to both undergraduate and postgraduate degree programmes in the School, specifically into the delivery of the School's undergraduate programmes, namely BSc in Analytical Science, BSc in Chemical and Pharmaceutical Science and BSc in Chemistry with Artificial Intelligence. The appointee will contribute to the design and development of future taught Masters programmes as appropriate. In addition, the appointee will supervise final year Bachelors and/or Masters level research projects and undergraduate placements. The School is dedicated to a flexible mode of module delivery across all of its programmes and the successful individual(s) will be expected to develop on-line components to their assigned modules.

Research and Scholarship

The appointee will be expected to establish an independently-funded and cutting edge research programme within the School of Chemical Sciences. This programme should align with the Research and Innovation constituent strategy of the DCU Strategic Plan particularly supporting our key research themes: Climate Action – Energy, Water & Sustainability; Advanced Materials & Devices; Therapeutics & Diagnostics. The research should also be aligned with national and local priorities, and relevant national and EU priority areas. The appointee will be expected to publish original results and findings in high-impact international journals, seek funding through national and international agencies and/or industry to aid research initiatives, supervise postgraduate research students, and contribute to existing School/Centre and DCU-wide research initiatives and expand their collaborative network within DCU, nationally and internationally.

Service and Contribution to the University and Society

The appointee will undertake administrative functions related to the activities of the School of Chemical Sciences and Faculty of Science and Health. Such duties will be assigned by the Head of

School and may include some of the following: degree programme coordination; participation in committees; visits to students on industrial placement within the DCU INTRA programme; representation of the School in marketing and recruitment of students; participation in open days; organisation of conferences and seminars, etc.

Qualifications and Experience
Essential:
- Individuals must hold a Ph.D with a track record of research in the area of computational chemistry that includes senior/first author publications.
- Have a research profile that demonstrates a pathway to future research independence such as Fellowship, Co-Investigator, Collaborator and/or Principal Investigator grant applications to date.

Candidates must also be able to demonstrate evidence of:
- Excellent interpersonal and communication skills consistent with the highest quality of teaching and learning, together with evidence of successful teamwork and a collegial approach
- An education background that can deliver computational chemistry related modules to our core undergraduate/postgraduate programmes.

Desirable:
- Experience in high quality university-level teaching (Level 8 and/or 9).
- Three years' relevant post-doctoral experience or industrial experience.

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