



JOB DESCRIPTION

Assistant Professor in Chemistry Faculty of Science and Health School of Chemical Sciences Fixed term 3-year contract

Introduction

Dublin City University (www.dcu.ie) is a young, dynamic and ambitious university with a distinctive mission to transform lives and societies through education, research and innovation. We are a research-intensive, globally-engaged institution, distinguished by both the quality and impact of our graduates, and focus on the translation of knowledge into societal and economic benefit. Excellence in education and research activities has led to DCU's consistent presence in the rankings of the world's top young universities.

Over its relatively short history has developed a strong reputation nationally and internationally for pioneering innovations in higher education. The university is embarking on a period of significant investment in learning innovation across all of its Faculties. This initiative will help us transform the learning experience of undergraduate students at DCU, reconceptualizing learning opportunities, creating authentic connections between the classroom and enterprise, and embedding digital literacies, disciplinary competencies and transversal skills required to truly future-proof our graduates for the rapidly changing workplace. DCU is joined in this project by a strong consortium of enterprise partners, representing key employment sectors in the Irish economy and with a strong presence in DCU's primary catchment area. This programme of innovation is funded under the Irish government's Human Capital Initiative (HCI) supported by the National Training Fund. It will deliver on the ambitions we have to reimagine undergraduate curricula and to embed innovative pedagogies, enhanced use of technology and deep industry engagement.

School of Chemical Sciences

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 is ranked in the top 350 chemistry schools/departments in the world (QS Rankings), a reflection of the School's ambitious research

activities and its undergraduate/postgraduate degree programmes. These programmes include Common Entry into Chemical Sciences, the School's two core undergraduate programmes, namely the BSc in Analytical Science and the BSc in Chemical and Pharmaceutical Sciences as well as the BSc in Environmental Science & Technology and BSc in Science Education. The School is currently expanding the number of undergraduate degree courses to include Chemistry with Artificial Intelligence.

Duties & Responsibilities

Duties and responsibilities attaching to this post include, but are not limited to:

Teaching and Learning

The appointee will teach analytical 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. The programmes include the BSc in Analytical Science, BSc in Chemical and Pharmaceutical Science and BSc in Chemistry with Artificial Intelligence in addition to its substantial contribution to the BSc in Environmental Science & Technology and BSc in Science Education. The appointee will contribute to the design and development of future taught Masters programmes as appropriate. A key part of this role will be to prepare, deliver and assess a range of existing modules and programmes at both undergraduate and postgraduate level and to contribute to the design and development of new modules and programmes. In addition, the appointee will supervise final year Bachelors and/or Masters level research projects and undergraduate placements. The School is committed to a flexible mode of module delivery across all of its programmes and the successful candidate(s) will be expected to develop on-line components to their assigned modules.

Research

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 support research initiatives, supervise postgraduate research students, and contribute to contribute to existing School/Centre and DCU-wide research initiatives and expand their collaborative network within DCU, nationally and internationally. He/she will be expected to sustain and conduct research, engage in scholarship of quality and substance, generate research income, supervise postgraduate students and publish to the highest international standard both individually and, where appropriate, in collaboration with colleagues in DCU and elsewhere. The appointee will be expected to have clearly articulated research interests and research profile development plans that support the school's current research priorities.

Service and Contribution to University & 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 to and recruitment of students; participation in open days; organisation of conferences and seminars, etc.

Candidate Requirements

Applicants for this position must have a Ph.D. in chemistry or a related discipline with a track record of research in analytical chemistry that includes corresponding and senior/first author publications and an education background that can deliver analytical chemistry related modules to our core undergraduate/postgraduate programmes. The successful candidates should ideally have a minimum of three years' relevant post-doctoral experience or industrial experience and have demonstrated teaching experience at undergraduate and/or postgraduate level. The successful applicants will also have demonstrated potential to establish an independent research programme and attract research funding from competitive research funding schemes and/or industry. Candidates should demonstrate excellent interpersonal and communication skills consistent with the highest quality of teaching and learning, together with evidence of successful teamwork and a collegial approach.

Mandatory Training

The post holder will be required to undertake the following mandatory training: Orientation, GDPR and Compliance. Other training may need to be undertaken when required.