



Applications are invited from suitably qualified candidates for the following position

**Assistant Professor in Chemistry with Artificial Intelligence / Machine Learning  
School of Chemical Sciences  
Faculty of Science and Health  
Fixed Term Three Year Contract**

**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. Our programmes include General Entry into Chemistry (CGE), 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 (accessed through CGE).

### **Role Profile**

The position will report to the Head of School and work closely with the programme lead for Chemistry with Artificial Intelligence, other colleagues, the Teaching Convenor/Associate Dean of Teaching and Learning and industry partners. Building positive relationships with professional support staff and technical and pedagogy specialists and engagement with key stakeholders within and outside of DCU is an important part of this role.

The appointee will be expected to support the School in implementing an innovative curriculum project, specifically

- developing and delivering a new bachelors programme/specialism in Chemistry with Artificial Intelligence, ensuring an industry engaged, research-led approach, integration of challenge based learning, digital tools and hybrid delivery.
- broader implementation of teaching approaches into other target programmes in the school, and
- engaging with university-wide elements of the initiative including cross faculty cooperation, project evaluation and reporting.

The role includes teaching, supervision of laboratory sessions, student mentoring and supervision of taught projects and research.

### **Duties and Responsibilities**

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

### **Qualifications and Experience**

#### **Essential criteria:**

- Applicants must hold an honours degree in a relevant discipline and should be qualified to a post-graduate level with a PhD specialism in chemistry with machine learning and/or artificial intelligence, or a related discipline.
- The successful candidates should ideally have a minimum of three years' relevant postdoctoral experience related to chemistry with machine learning and/or artificial intelligence.
- Applicants must have demonstrated teaching experience at undergraduate and/or postgraduate level, ideally including experience in using innovative pedagogies and/or assessments in the area of chemistry with machine learning and/or artificial intelligence.
- 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.

**Ideally the applicants would have:**

- Strong research credentials and publication record, particularly in one or more of the following research areas: chemistry with machine learning, artificial intelligence.
- Experience in research collaboration and engagement with Irish, European, and international companies.
- Demonstrated potential to establish an independent research programme and attract research funding from competitive research funding schemes and/or industry.

**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:**

Assistant Professor (Above bar) € 58,629- € 93,957\*

*\*Appointment will be commensurate with qualifications and experience, and will be made on the appropriate point of the relevant salary scale in line with current Government pay policy.*

**Closing date:** 5<sup>th</sup> April 2023

**For more information on DCU and our benefits, please visit [Why work at DCU?](#)**

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

Prof. Silvia Giordani, Head of School, School of Chemical Sciences, Dublin City University.  
E-mail: [chemistry.headofschool@dcu.ie](mailto:chemistry.headofschool@dcu.ie) Tel: +353 (0)1 700 6459.

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](mailto:hr.applications@dcu.ie)

**Please clearly state the role that you are applying for in your application and email subject line:  
Job Ref #HCI.3.F.62 Assistant Professor in Chemistry with AI / Machine Learning**

*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](#)*