



JOB DESCRIPTION

Assistant/Associate Professor in Biomedical Sciences

School of Biotechnology

Faculty of Science & Health

Permanent

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.

Overview of the department

The School of Biotechnology is the academic unit leading life science and biotechnology education and research within the Faculty of Science & Health at Dublin City University (DCU). The school delivers both undergraduate B.Sc and taught M.Sc. postgraduate degree programmes in addition to the education and training of research M.Sc. and Ph.D students under its structured Ph.D programme *BioTranslate*. It is an active centre of basic, applied and multi-disciplinary research, supporting a defined cluster of intersecting research themes which link closely with the School's teaching programmes. The School and

associated research centres offer core facilities and technical support in the areas of Bioprocessing, Molecular Biology, Bioinformatics, Cell Characterisation, and Proteomics. Research projects fall into the general categories of Life Science or Industry-associated with activity in the domains of BioDesign, Bioengineering, Environmental Science, Health/Ageing/Disease, and Precision Health. They bring together a critical mass of multidisciplinary researchers that are strategically positioned to pursue national and international opportunities for research and innovation. The excellence of the school's research is reflected by funding success from many national and international sources (including direct funds from industry) and the quality of its published and other outputs.

Role Profile

The School is seeking to recruit suitable candidates with a Ph.D in a science related discipline who have an independent research career and excellent track record commensurate with an Assistant and/or Associate Professor and demonstrable experience in undergraduate and/or taught postgraduate teaching and learning in Biomedical Sciences. The appointee is expected to lead in biomedical science focused initiatives across teaching, curriculum design and enhancement, research, and administration in the School in supporting and advancing student learning.

The post holder will be expected to contribute directly to B.Sc undergraduate programmes in Genetics and Cell Biology (GCB), Biotechnology (BT) and taught post graduate M.Sc programmes in Diagnostics and Precision Medicine (MDPM) through research-led teaching, student mentoring and support, and supervision of student projects and research.

The post holder will lead research and scholarship in Biomedical Sciences and contribute to advancing the Schools research agenda. The post is based on the Glasnevin Campus and the candidate will report to the Head of School.

The post holder will be expected to support the school, especially the Biomedical Science team, as the school enters a period of expansion in its programmes. Within this role, the following will be prioritised:

- Teaching existing lecture modules in cell and molecular biology, computational biology, and biochemistry.
- Contributing to the teaching of cell and molecular biology laboratory modules and computational biology tutorial labs
- Working with the biomedical science team in the development of new modules for a BSc in Biomedical Sciences and the M.Sc in Biotherapeutics and M.Sc in Systems Biology
- Undergoing training in novel pedagogies such as Challenge Based Learning

The duties of the post fall within *DCU's Academic Development and Promotions Framework* (<https://www.dcu.ie/hr/DCU-Academic-Development-Promotion-Framework.shtml>) and the principles of the *School's Academic Workload Model* with activity across the domains of teaching, research and administration and are in line with DCU's strategic plan "*Talent, Discovery and transformation: 2017-2022*".

Duties and Responsibilities

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

Teaching and Learning:

The post will aid the delivery of the Education mission of the University; specifically the delivery of biomedical science content to our key undergraduate programmes, namely the **B.Sc in Biotechnology (BT)** and **B.Sc in Genetics and Cell Biology (GCB)**, **B.S in Analytical Science (Biology option)** and **B.Sc in Environmental Science and Technology (EST)** as well as the **M.Sc Diagnostics and Precision Medicine (MDPM)**. The School is committed to a flexible mode of module delivery across all of its programmes and the successful candidates will be expected to develop on-line components to their assigned modules.

Research:

The successful individual will contribute to our strategic goal of advancing our reputation for world-class research by supporting a programme of research that falls within the broad theme of 'Biomedical Sciences', which includes activity in the domains of cell and molecular biology, computational biology, genomics, cardiovascular biology, cancer biology, immunology, physiology, microbial pathogenicity, diagnostics and therapeutics. The track record should include an excellent publication track record detailing first/senior author publications in peer-reviewed high impact journals, explicit evidence of securing independent extramural funding from National and International funding agencies and a history of recruitment of both postgraduate students and postdoctoral research fellows; contribution to University-wide research initiatives and evidence of a collaborative research network both nationally and internationally.

Service and Contribution to the University and Society:

The post holder will be required to undertake administrative roles related to the activities of the School of Biotechnology and the Faculty of Science & Health as assigned by the Head of School. These roles may include but are not limited to the following: Programme Chair; School Executive member; Convenor roles (teaching, research or international), Faculty Management board, Marketing, Safety Committee, Open Days, Conference organisation, Work Placement Tutoring. Participation in courses provided by the University designed to develop skills in such areas as teaching, management and safety will also be expected.

Qualifications and Experience

Essential Criteria:

- Candidates must hold a Ph.D in the area of Biomedical Sciences, with a particular focus on cell and molecular biology, computational biology and /or biochemistry
- Evidence of teaching ability/quality in the area Biomedical Sciences at undergraduate and/or postgraduate level
- Evidence of obtaining extramural funding as a Principal Investigator (PI) and/or Co-Investigator (COI) from National or International funding agencies

- Have a publication record that includes first/senior author peer-reviewed original high impact publications in their research area with associated KPIs commensurate with the Assistant and/or Associate Professor grade
- Have a dynamic research profile that demonstrates research career independence and impact
- Excellent written and verbal communication and interpersonal skills
- Proven ability to prioritise workload and work to strict deadlines

Desirable Criteria:

- Prior experience in the areas of physiology, diagnostics and therapeutics either in academia or industry
- Prior experience in contributing to School or university level committees/projects.
- Prior experience in contributing to School research strategy, School level boards and School based roles and workplace supervision.
- Prior experience in teaching into multiple programmes in one academic year.

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.