



Research Centre	National Institute for Cellular Biotechnology
Post Title	Postdoctoral Researcher
Level on Framework	Level 1.
Post Duration	Fixed-Term Contract up to 36 Months

Overview

Dublin City University www.DCU.ie 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 and Transformation’, it is committed to the development of talent, and the discovery and translation of knowledge that advances society and the economy. DCU is the Sunday Times Irish University of the Year 2021.

The University is based on three academic campuses in the Glasnevin-Drumcondra region of north Dublin. It currently has more than 18,000 students 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 creating a transformative student experience, and its positive social and economic impact. This exceptional commitment on the part of its staff and students has led to DCU’s ranking among the top 2% of universities globally. It also consistently features in the world’s Top 100 Young Universities (currently in QS Top 70 Under 50, Times Higher Top 150 Under 100).

DCU is placed 84th in the world, in the Times Higher Education University Impact Rankings – measuring higher education institutions’ contributions towards the UN Sustainable Development Goals. Over the past decade, DCU has also 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. The role may include teaching duties to assist with module delivery.

National Institute for Cellular Biotechnology

The National Institute for Cellular Biotechnology (www.nicb.ie) is a multidisciplinary centre for research on human cell biology and medicinal chemistry, with emphasis on research with application to cancer, diabetes, obesity, ocular diseases and the biopharmaceutical industry. It features advanced core facilities in proteomics, microscopy and mammalian cell culture, housing a large collection of human cell lines. The NICB prioritises translational research involving collaborations with industry and with clinicians.

Role Profile

We are seeking a postdoctoral scientist to join a growing research group. The role will involve the proteomic and mass spectrometry analysis of Chinese hamster ovary (CHO) cells, the principal host cell line used in biopharmaceutical production of biotherapeutics, to identify protein targets that can be genetically manipulated in CHO cells to improve the efficiency of biopharmaceutical production. Experience in mammalian cell culture, protein analytical and molecular biology techniques is required for the role.

Duties and Responsibilities

Reporting to his/her Principal Investigator the Postdoctoral Researcher will:

- Conduct, with a very high degree of technical competence, a specified programme of research under the supervision and direction of the Principal Investigator
- Conduct proteomic analysis of mammalian cells used for biopharmaceutical production
- Develop methodology for analysis and quantitation of post-translational modifications of cellular proteins using mass spectrometry
- Communicate research efforts, including compiling reports, participation in the generation of manuscripts and presenting findings at group meetings, national and international conferences
- Take part in supervision of postgraduate students as required
- Supervise and assist undergraduate students working in this area with their research
- Assist in identifying and developing future research and funding initiatives
- Engage in appropriate training and development opportunities as required by the Principal Investigator, the School or Research Centre, or the University
- Engage in teaching and teaching support as assigned by the Head of School under the direction of the Principal Investigator
- Liaise with both internal and external stakeholders including industry and academic partners/collaborators
- Carry out administrative work associated with the programme of research as necessary

Qualifications and Experience

Minimum criteria

The successful individual will have a PhD in biochemistry/bioanalytical sciences or equivalent.

In addition to the above it is desirable that the candidate possess a subset of the following skills and experience.

- Experience in mammalian cell culture, proteomics and protein analytical techniques
- Experience in mass spectrometry for protein/peptide analysis, and molecular biology.

Mandatory Training

The post holder will be required to undertake the following mandatory compliance training: Orientation, Health and Safety and Intellectual Property and Data Protection training. Other training may need to be undertaken when required.

Candidates will be assessed on the following competencies:

Discipline knowledge and Research skills – Demonstrates knowledge of a research discipline and the ability to conduct a specific programme of research within that discipline.

Understanding the Research Environment – Demonstrates an awareness of the research environment (for example funding bodies) and the ability to contribute to grant applications.

Communicating Research – Demonstrates the ability to convey their research with their peers and the wider research community (for example presenting at conferences and publishing research in relevant journals) and the potential to teach and tutor students.

Managing & Leadership skills - Demonstrates the potential to manage a research project including the supervision of undergraduate students.