



Applications are invited from suitably qualified staff for the following position:

Research Centre	NCSR/School of Chemical Sciences
Post title	Postdoctoral Researcher – Super-resolution and Fluorescence Microscopy
Level on Framework	Level 1
Post duration	Fixed Term Contract – up to 2 years

Dublin City University

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.

Background & Role

We are seeking an experienced and talented scientist with expertise in fluorescence microscopy to contribute to a project on development of luminescent DNA recognition switches for super-

resolution microscopy. The candidate will work as part of a multidisciplinary team applying confocal fluorescence, FLIM and super-resolution microscopy to study the uptake, distribution and optical sensing capabilities of novel luminophores in 2D and 3D cell culture. They will also contribute to bioassays of cytotoxicity and photocytotoxicity of new materials on a range of cell types.

The candidate must have a PhD in a life science field, such as cell biology, biochemistry, biophysics or related discipline with extensive experience in fluorescence microscopy including and ideally at least 1 years' experience working in super-resolution methods, (preferably STED), quantitative microscopy and/or FLIM methods.

Principal Duties and Responsibilities

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

Minimum Criteria

Applicants should have a PhD in biochemistry, molecular biology, biophysics or related discipline where a significant portion of their PhD research and postdoctoral experience includes live cell fluorescence microscopy, and cell culture. Experience in super resolution microscopy (preferably in STED) and quantitative fluorescence imaging is expected and experience in one or more of fluorescence correlation microscopy, fluorescence lifetime imaging and/or Raman imaging would also be an advantage.

The ideal candidate should also:

- Have experience in quantitative bioassays, including cytotoxicity assays and in gel electrophoresis.
- Be capable of working independently with a high degree of technical competence whilst also being a team player, they must demonstrate initiative, be hard working, versatile and productive.
- Have good communication and organisational skills.

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 communicate 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

Essential Training

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

Salary: POST DOC RESEARCHER IUA LEVEL 2 - €39,132 to €45,157

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

Closing date: 10th December 2021

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

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

Professor Tia Keyes,

Tia.keyes@dcu.ie

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 <http://www.dcu.ie/vacancies/current.shtml>

Applications should be submitted by e-mail with your completed application form to hr.applications@dcu.ie

**Please clearly state the role that you are applying for in your application and email subject line:
Job Reference #RF1599 Postdoctoral Researcher – Super-resolution and Fluorescence
Microscopy**

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](#)