



Research Centre	School of Chemical Sciences / National Centre for Sensor Research
Post Title	Postdoctoral Researcher in Bioinorganic/ Coordination Chemistry
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.

The National Centre for Sensor Research (NCSR)

The National Centre for Sensor Research (NCSR) is a large, multidisciplinary research unit based in state-of-the-art facilities situated on the campus of Dublin City University. Arising from success in recent proposals we are now seeking application for the following research position in DCU.

Research Career Framework

As part of this role the researcher will be required to participate in the DCU Research Career Framework (<http://dcu.ie/hr/ResearchersFramework/index.shtml>). This framework is designed to provide significant professional development opportunities to researchers and offer the best

opportunities in terms of a wider career path.

DCU has a strong track record in attracting both Irish and European Union research funding under Horizon 2020 (and all previous Framework programmes), Marie Curie Actions and Erasmus. We offer a dynamic and internationally-focused environment in which you can advance your academic career.

Background and Role Profile

We are seeking an experienced and talented postdoctoral Inorganic Chemist with experience in ligand synthesis, coordination chemistry of the platinum group metals and photophysics, to work on the development of luminescent DNA recognition switches. The candidate will work as part of a multidisciplinary team on the synthesis of organic ligands and their Ru, Pt and/or Os complexes and their bioconjugation. They will also contribute to the optical and photophysical characterisation of the complexes and their interaction with biomaterials.

The candidate must have a PhD in inorganic synthesis of the platinum group metals, as experience in spectroscopic and photophysical measurements, both time resolved and steady state measurements and should ideally also have experience in basic electrochemical measurement.

Experience in cell culture confocal fluorescence microscopy and/or Raman microscopy and associated data analysis, would be advantageous.

Principle Duties and Responsibilities

See Job Description for full list of duties and responsibilities.

Minimum Criteria

The candidate must have a PhD in synthetic inorganic chemistry or physical inorganic chemistry with significant experience in the coordination chemistry of platinum group metals and in organic ligand synthesis and purification. Some experience in optical and photophysical characterisation of metal complex luminophores is also essential.

In addition, it is desirable that the successful candidate has a subset of the following skills and experience:

- Experience in bioconjugation will be an advantage.
- Experience cell culture and fluorescence microscopy.
- Capable of working independently with a high degree of technical ability whilst also being a team player,
- Demonstrate initiative, be hard working, versatile and productive.
- Ability to communicate effectively and excellent organisational skills.

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 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

Salary Scale: Post-Doctoral Researcher IUA Scale* €38,632 - €50,029

**Appointments will be commensurate with qualifications and experience and will be made on the appropriate point of the salary scales, in line with current Government pay policy.*

Closing date: Tuesday 8th of June 2021

Additional Information

The successful candidates will be offered opportunities for developing their own careers in a number of directions including support for conference/workshop travel, upskilling through Insight's continuous professional development in areas like research ethics and data privacy, student supervision and development and submission of their own research project proposals.

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, School of Chemical Sciences, DCU, Dublin 9, Ireland

Phone: +353 (0)1 7005298

Email: tia.keyes@dcu.ie

Please do not send applications to these email addresses, 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.shtml>.

Applications must be submitted by e-mail to hr.applications@dcu.ie.

Please clearly state the role that you are applying for in your application and email subject line: Job Ref #RF1514 Postdoctoral Researcher in Bioinorganic/ Coordination Chemistry

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](#)*