



Position title: Postdoctoral Researcher – Two Positions

Post duration: Fixed Term Contract – 18 months

Start date: Immediate



Location: School of Chemical Sciences, Dublin City University, Glasnevin, Dublin 9, Ireland.

Researcher 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 to advance your academic career.

Background: This is an opportunity for you to join an SFI-funded research project within the group of Dr. Andrew Kellett at Dublin City University. You will work in the area of biological inorganic chemistry within the SFI funded project *Polynuclear Platinum(II) Biomaterials (PpTbio) for Antisense Therapeutic Application and Detection of Human Genetic Disease*.

Description: In this project you will be tasked with developing new polynuclear platinum(II) hybrid materials through click chemistry and investigating their biological potential. The first postdoctoral position (**PD1**) will be responsible for the organic and inorganic synthesis, characterisation and crystallisation of a novel library of platinum(II) hybrids through CuAAC click chemistry. The second postdoctoral post (**PD2**) will be responsible for probing the biological application of these materials toward selected oncogenic DNA targets, investigate solution stability, and cellular antisense therapeutic potential.

Research area: Biological Inorganic Chemistry

Salary scale: * €36,488 - €47,255 per annum

*Appointment will be commensurate with qualifications and experience

Closing date: 03rd Oct 2017

Requirements: Applicants for both positions must hold a PhD in bioinorganic chemistry (**PD1**) or chemical biology / nucleic acid chemistry (**PD2**). **PD1** should be specifically skilled in the handling of inorganic and organic materials, in organic ligand synthesis, purification, crystallisation and characterisation using a suite of techniques such as NMR, IR, UV-vis, MS, ESI-MS, HPLC etc. Further, **PD1** should ideally have knowledge / experience in the handling nucleic acids and in conducting bio-spectroscopic and biophysical experiments. The main duty of **PD1** is to oversee the development of new



synthetic methodologies for the development of hybrid materials. **PD2** will ideally hold a PhD in chemical biology / nucleic acid chemistry and should have expertise in cell culture techniques, expression and purification of recombinant proteins, DNA and protein electrophoretic techniques, PCR (including qPCR), Western blotting, flow cytometry, and confocal imaging. The main duty of **PD2** will be to oversee biological applications of newly developed hybrid materials.

Informal enquiries: andrew.kellett@dcu.ie

Application Procedure: Applications should include a CV (with 3 references) and covering letter, explaining why you are interested in pursuing a PhD in this area to hr.applications@dcu.ie and reference clearly which position you are applying for.

Application Procedure: Application forms are available from the DCU Current Vacancies (open Competitions) website at <https://www.dcu.ie/hr/vacancies/current.shtml> and also from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0) 1 700 5149.

Applications should be submitted by email to hr.applications@dcu.ie or by Fax: +353 (0)1 7005500 or by post to the Human Resources Department, Dublin City University, Dublin 9. Human Resources Department, Dublin City University, Dublin 9. Tel: +353 1 700 5149; Fax: +353 1 700 5500 Email: hr.applications@dcu.ie

DCU staff profile: <https://www.dcu.ie/chemistry/people/andrew-kellett.shtml>

Group website: www.andrewkellettgroup.com

Please clearly state the role that you are applying for in your application and email subject line: Job Ref 655 Postdoctoral Researcher – Two Positions, PPtBio

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