

Faculty of Science & Health

School of Chemical Sciences



**Lecturer in Computational Chemistry
(Permanent Post)**

Dublin City University (www.dcu.ie) is a research-intensive, globally-engaged, dynamic institution that is distinguished both by the quality and impact of its graduates and by its focus on the translation of knowledge into societal and economic benefit. Excellence in its education and research activities has led to its ranking in the top 2% of universities globally and its consistent position in the top 50 of the world's young universities (QS Top 50 under 50). DCU is Ireland's fastest growing university and its next phase of major development involves strategic investments of more than €0.3bn, including a €0.2bn campus development plan. The School of Chemical Sciences (SCS) is one of the leading academic schools within DCU. The SCS is ranked in the top 250 chemistry schools/departments in the world, a reflection of the School's ambitious research activities and its undergraduate/postgraduate degree programmes. The SCS now plans to build upon this success by creating a new critical mass in the area of nanomaterials/materials sciences. As part of this initiative, the SCS will make an appointment at Lecturer level in Computational Chemistry (permanent).

Main Duties

The post holder will make a significant contribution to the delivery of the School's undergraduate degrees. The successful candidate will be expected to establish a competitive research program in one or more of the following areas:

- Computational materials chemistry
- Modelling of biomolecules – protein/ligand; protein/protein interactions,
- Dynamic modelling
- Surface modelling
- Prediction /design of self-assembly processes in nano sciences
- Chemical informatics

The post holder will also be expected to:

- recruit postgraduate research students
- to seek funding support for his/her research program from both national and international sources
- contribute to furthering links with Industry in Ireland and abroad

The successful candidate will also be required to undertake administrative functions and leadership/management roles within both the School of Chemical Sciences and the Faculty of Science and Health. These duties may include participation in School and University committees, representation of the School in marketing and recruitment activities, participation in open days, Chair undergraduate and postgraduate program boards etc.

Person Specification

The post holder must hold a PhD in the relevant area of chemistry. Previous teaching experience would be ideal. We seek a candidate that has displayed a strong research track record and evidence of publication in top peer reviewed international journals. The candidate is expected to develop an internationally competitive research program in the areas described above and be proactive in developing international research collaborations.

The School

The School of Chemical Sciences at Dublin City University is strongly committed to the delivery of high quality educational programs in Chemical and Pharmaceutical Sciences, Analytical Sciences and Environmental Sciences and has a strong commitment to research excellence as evidenced by the School's outstanding publication output. The School has access to world class research facilities on campus that includes:

- state of the art undergraduate and research labs
- 600 and 400MHz NMR
- HPLC, UPLC, SFC, LC-MS, MALDI high resolution mass spectrometry facilities, GC-MS
- XRD and x-ray crystallography
- SEM, FeSEM, particle size analysis (including DLS Malvern NanoZS)
- Thermal analysis, Raman, Chirascan-plus Circular Dichroism, FTIR – ATR, ICP

Members of the School are also highly actively involved in the University designated research centres (<http://www.dcu.ie/research/institutes.shtml>) and members of staff have full access to the research centre's facilities and equipment, including the newly opened state-of-the-art Nano-Bioanalytical Research Facility (NRF) at DCU (<https://www4.dcu.ie/research/infrastructure/NRF.shtml>). The NRF brings together expertise to create core capabilities in: Nanosynthesis, Nanometrology, Micro and Nano fabrication, NanoBioPhotonics, Analytical Characterisation and Antibody Production.

Informal enquiries to:

Dr Kieran Nolan, Head of School, School of Chemical Sciences, Dublin City University, Dublin 9.

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Salary Scales:

Lecturer Above Bar: *€50,159 - €76,891 per annum

Lecturer Below Bar: *€37,352 - €51,724 per annum

**Appointment will be commensurate with qualifications and experience, and will be made on the appropriate point of the Lecturer Above Bar or Lecturer Below Bar salary scale in line with current Government pay policy*

Closing date: 5th August 2016

Application Procedure:

Application forms are available from the DCU Current Vacancies (Open Competitions) website at <http://www4.dcu.ie/hr/vacancies/current.shtml> and also from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0)1 700 5149; Fax: +353 (0)1 700 5500 Email: hr.applications@dcu.ie

Please clearly state the role that you are applying for in your application and email subject line:

Job Ref: #336 Lecturer in Computational Chemistry

Applications should be submitted by e-mail to hr.applications@dcu.ie or by Fax: +353 (0)1 700 5500 or by post to the Human Resources Department, Dublin City University, Dublin 9.

Dublin City University is an equal opportunities employer

