



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

Assistant Professor in Computational Physics
School of Physical Sciences
Faculty of Science & Health
36 Month Fixed Term Contract

Dublin City University

Dublin City University (DCU) is a leading innovative European University. It is proud to be one of the world's leading Young Universities and is among the world's top 2% globally. DCU is known as Ireland's University of Impact, with a mission to 'transform lives and societies' and focuses on addressing global challenges in collaboration with key national and international partners and stakeholders.

DCU has over 20,000 students in five faculties spread across three academic campuses in the Glasnevin-Drumcondra area of North Dublin. Thanks to its innovative approach to teaching and learning, the University offers a 'transformative student experience' that helps to develop highly sought-after graduates. DCU is currently No. 1 in Ireland for Graduate Employment Rate, and for graduate income (CSO).

DCU is a research-intensive University and is home to a number of SFI-funded Research Centres. The University participates in a range of European and international research partnerships. DCU is also the leading Irish university in the area of technology transfer as reflected by licensing of intellectual property.

As a 'People First' institution, DCU is committed to Equality, Diversity and Inclusion - a University that helps staff and students to thrive. The University is a leader in terms of its work to increase access to education, and is placed in the world's Top 10 for reducing inequalities in the Times Higher Education Impact Rankings.

School of Physical Sciences

The School of Physical Sciences www.dcu.ie/physics at Dublin City University has a high standing within Ireland and internationally, for both its teaching and research activities. There are more than fifty researchers within the school's research groups including postgraduate students, postdoctoral researchers, research officers, and administrators. Physics research at DCU covers **data analytics and modelling, astrophysics, biomedical physics, physics education, plasma and laser-plasma physics, materials and nanotechnology** as its main priority areas. Researchers in the School lead and contribute to several research centres, including, four National Research Centres – National Centre

for Plasma Science and Technology (NCPST), National Centre for Sensor Research (NCSR), INSIGHT and ADAPT, and University Approved Centres - Centre for Astrophysics & Relativity (CfAR), Centre for Advancement of STEM Teaching and Learning (CASTeL), and the Water Institute. The School has been awarded substantial research funding and programme grants from national funding agencies, including [Science Foundation Ireland](#), [Irish Research Council](#), [Enterprise Ireland](#), [Sustainable Energy Authority of Ireland](#), [Higher Education Authority PRTLI programme](#), and European [Erasmus+](#) and [Framework Programmes](#).

DCU School of Physical Sciences offers several undergraduate degree programmes, featuring unique blends of physics fundamentals with modern applications: BSc in Applied Physics, BSc in Physics with Biomedical Sciences, BSc in Physics with Data Analytics and BSc in Physics with Astronomy, all of which are entered via a Physics General Entry common first year. A hands-on approach to physics teaching is favoured with an emphasis on the development of experimental and data analytical skills as well as mathematical, computational, and reasoning skills. These programmes are delivered through novel and innovative curricula, in partnership with other Schools across the university and industry collaborators. In addition, the school makes important contributions to the curriculum and teaching of the BSc in Science Education programmes and the BSc in Environmental Science and Technology. At postgraduate level, the DCU School of Physical Sciences offers the Professional Diploma in Teaching Physics and the MSc in Astrophysics & Relativity (jointly with the School of Mathematical Sciences). In keeping with its Strategic Plan, the School is modernising our physics programmes available to students through a new innovative curriculum project in partnership with key industry collaborators and other Schools across the university.

Relationships

The position will report to the Head of School and work closely with other colleagues, the Teaching Convenor/Research Convenor, Associate Dean of Teaching and Learning and industry partners. Building positive relationships with professional support staff, technical and pedagogy specialists and engagement with key stakeholders within and outside DCU is a key aspect of this role.

Duties and Responsibilities

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

Qualifications and Experience

- Applicants must have the ability to teach a broad range of physics, mathematics and programming at honours undergraduate physics level and at postgraduate level in their area of specialisation and contribute to the future development of the school's teaching.
- Applicants must hold an honours degree in physics, applied physics or equivalent, and hold a PhD in physics or cognate area.
- Applicants would ideally have a minimum of three years' relevant Postdoctoral experience and a demonstrable track record of high quality and original research, as evidenced by regular publication in high impact physics journals, a significant citation rate, presentations at top international conferences and the ability to attract research funding.

- Applicants must have demonstrated teaching experience in the delivery of undergraduate lectures, projects and laboratory physics, ideally including experience in embedding computational physics problems into the curriculum, innovative pedagogies and/or assessments, international and/or online or technology-assisted teaching.
- Applications are specifically invited from those with strong research credentials and publication record
- Applicants must demonstrate excellent communication and interpersonal skills consistent with the highest quality of teaching and learning, as well as evidence of successful teamwork and a collegial approach.

Essential Training

The postholder will be required to undertake the following mandatory compliance training: Orientation, Health & Safety and Data Protection (GDPR). Other training may need to be undertaken when required.

Salary Scale:

Assistant Professor (Above Bar) *€58,629 - €93,957

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

Closing date: Sunday, 21st May 2023

It is expected that the interviews for this position will be held on the 7th June 23.

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

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

Dr. Eilish McLoughlin, Head of School of Physical Sciences, Dublin City University.

Phone + 353 (0)1 7005862 Email: Eilish.McLoughlin@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 <https://www.dcu.ie/hr/vacancies-current-vacancies-external-applicants>

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 Ref HCl.3.F.64 Assistant Professor in Physics**

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](#)