



## **JOB DESCRIPTION**

**Assistant Professor in Mathematics  
School of Mathematical Sciences  
Faculty of Science & Health  
Permanent contract**

### **Dublin City University**

Dublin City University (DCU) 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', DCU is a values-based institution, committed to the delivery of impact for the public good. DCU was named Sunday Times Irish University of the Year 2021.

DCU is based on three academic campuses in the Glasnevin-Drumcondra region of north Dublin. More than 18,000 students are 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 delivering a transformative student experience, and its positive social and economic impact. The university continues to develop innovative programmes in collaboration with industry, such as the DCU Futures suite of degrees, which are designed to equip graduates with the skills and knowledge required in a rapidly evolving economy.

DCU's pursuit of excellence has led to its current ranking among the top 2% of universities globally. It is also one of the world's Top Young Universities (QS Top 100 Under 50, Times Higher Top 150 Under 100). In the Times Higher Education University Impact Rankings 2021, DCU ranked 23rd in the world for its approach to widening participation in higher education and its ongoing commitment to eradicating poverty, while it ranks 38th globally for its work in reducing inequality and 89th globally for gender equality.

The university is ranked 23rd in the world and first in Ireland for its graduate employment rate, according to the 2020 QS Graduate Employability Rankings. Over the past decade, DCU has been the leading Irish university in the area of technology transfer, as reflected by licensing of intellectual property.

### **Overview of the department**

The School of Mathematical Sciences offers undergraduate and post-graduate degree programmes in Actuarial Mathematics, Financial Mathematics, and Mathematics Teacher Education, in addition to service Mathematics courses across all five Faculties of the University.

The School has a broad research profile in the Mathematical Sciences, with research carried out in several areas including Actuarial Mathematics, Differential and Difference Equations, Differential Geometry, Financial Mathematics, General Relativity, Group Theory, High Performance Computing, Mathematical Physics, Mathematics Education, Numerical Analysis, Quantum Fields, Statistics, Stochastic Analysis, and Theoretical Astrophysics. (<http://www.dcu.ie/maths/index.shtml>).

### **Role Profile**

The School of Mathematical Sciences in Dublin City University seeks to recruit an Assistant Professor in any area of Mathematics, including Statistics and Actuarial Mathematics. As detailing below, the role includes teaching, student mentoring and supervision of taught projects, and research. The successful candidate will be based in the School of Mathematical Sciences on the DCU Glasnevin Campus, and will report to the Head of the School of Mathematical Sciences. The successful candidate will be expected to be in post in early September 2023.

### **Duties and Responsibilities**

The duties and responsibilities of the position include, but are not restricted to, the following:

#### **Teaching and Learning**

The successful candidate will teach at both undergraduate and postgraduate degree levels and will participate in student mentoring and tutoring. The total teaching hours and responsibilities are set down on an annual basis by the Head of School (in consultation with the School's Teaching Convenor).

#### **Research and Scholarship**

The appointee will sustain and conduct high-quality research in Mathematics, generate external research funding, supervise postgraduate students, and publish to the highest international standard either individually or in collaboration with colleagues in DCU and elsewhere. The appointee will have clearly articulated research interests and future plans, which dovetail with the school's current research priorities.

#### **Service and Contribution to the University and Society**

The successful candidate will undertake administrative and service functions related to the activities of the School of Mathematical Sciences, the Faculty of Science & Health and the University at wide. Such duties will be defined by the Head of School and may include some of the following: degree programme coordination; participation in committees; visits to students on industrial placement within the DCU INTRA programme; student recruitment.

#### **Qualifications and Experience**

- Applicants must hold a PhD in Mathematics or a closely related area.
- They must have a record of original research supported by publications in top international journals or, depending on career stage, show exceptional promise in this regard.
- The successful candidate should also have experience of teaching Mathematics effectively at university level.