

**Information for applicants to a rolling panel of eligible appointees for hourly-paid assistant lecturers or senior tutor/demonstrator roles in the School of Mathematical Sciences, Dublin Institute of Technology**



## **Dublin Institute of Technology**

### **DIT at a glance**

- A history in Dublin city, dating back to 1887, in its current form since 1992
- 9% of all higher education students in Ireland
- 20% of student population come from outside Ireland
- 15% of DIT students are mature learners
- Students registered on programmes in four Colleges - Arts and Tourism; Business; Engineering and Built Environment; Sciences and Health
- One of the national degree-awarding bodies in higher education
- Circa 2,500 staff members of academic, administrative and support staff
- 800 students and academic staff actively engaged in research
- Ranked in the top 3% of universities internationally
- 4000+ graduates each year
- Active in civic and industry engagement
- Annual budget circa €170M

# Background

## Dublin Institute of Technology

With a history dating back to 1887, DIT has grown to become one of the largest and most innovative institutions in Ireland, currently representing 10% of all students in higher education. Programmes offered in DIT, from apprenticeship to PhD, are distinctively practice-based and research-informed. Responding to education, cultural and economic changes in our society, DIT engages with local community partners; works closely with industry; and collaborates with academic institutions nationally and internationally. The development of the new DIT campus at Grangegorman in Dublin's inner city is the biggest project of its kind in Europe and will see more than 50% of all current DIT activities located on one campus. Meanwhile, working with our partner institutions in IT Blanchardstown and IT Tallaght, DIT aims to develop Ireland's first Technological University which will make a significant contribution to the social and economic development of the Dublin region.

## College of Sciences & Health

The College of Sciences and Health at the Dublin Institute of Technology was established in 2010 and is located at DIT's Kevin Street and Cathal Brugha Street sites. The College builds on 120 years of experience in science and technology education and now offers practical, professional and career-oriented education, training and research in mathematics, computing, sciences and health. The mission of the College is to support economic and societal development by providing highly skilled graduates, trained researchers and an up-skilled workforce capable of anticipating and meeting demand in competitive global sectors including Food, Pharmaceutical and Life Sciences, ICT, Green Technology, Financial Services, Education and the Allied Health Professions.

The programmes that are currently offered by the College demonstrate the breath of opportunity available to prospective students in our College. Our strengths come from our excellent teaching staff, our successful research profile and our close ties with industry, the professions and the health sector. Almost all of our programmes are linked with industry and relevant professions through placement opportunities and other engagement activities, and our research is guided and informed by the needs of relevant sectors.

## School of Mathematical Sciences

The School of Mathematical Sciences is one of six Schools in the College of Sciences and Health and provides modern, innovative, research-informed, technology-enhanced education to undergraduate and postgraduate students in all areas of the mathematical sciences and statistics. It is a vibrant, flourishing School, with strong, practical programmes, which undertakes a diverse range of activities from teaching and learning, to research, outreach and community engagement. It is a forward-looking School, fundamental to the technological, career-focused programmes of the Institute, and contributes to the strength of the College of Sciences & Health. It closely and effectively interacts not only with the other units in the Institute but also externally with industry and the community.

The School delivers full-time and part-time programmes in mathematics at both undergraduate and postgraduate levels. It provides upskilling opportunities and continuing professional development

through short programmes and individual modules. Modules delivered by staff in the School of Mathematical Sciences also contribute to programmes throughout the Institute. The aim of the School is to develop students' mathematical abilities and appreciation, particularly in the context of the real world and our programmes provide a sound foundation of mathematical principles and advanced knowledge together with a broad range of modelling and relevant software skills which emphasise problem-solving. This integrated approach ensures that our graduates possess excellent analytical and problem-solving skills. Research is fundamental to the activities of the School and there is a vibrant research atmosphere with staff engaging in research at the forefront of their specialisms and supervising the research of postgraduate and postdoctoral students.

The School regularly engages and collaborates closely with industry to ensure that its graduates remain valued by employers for their versatility, knowledge and skillsets and their ability to analyse and solve real-world problems. The School's programmes are therefore designed to provide students from a diverse variety of backgrounds the opportunity to study mathematics and prepare for complex professional roles in a changing technological world.

Mathematics is a key lifeskill and, through its events and community outreach, the School of Mathematical Sciences promotes the wider understanding and enjoyment of mathematics in society. The School also manages and operates the Mathematics Learning Support Centre (MLSC), a support service for all undergraduate students of all mathematical abilities registered on programmes at Dublin Institute of Technology.

Further information about the School can be found at the School's website:  
<http://www.maths.dit.ie/>.

## Role Description

The School of Mathematical Sciences, Dublin Institute of Technology, is seeking to form a panel of eligible appointees for hourly-paid, part-time teaching positions that may arise during the academic year. The requirement for hourly-paid, part-time teaching in the School varies and is dependent on the numbers of students registered on individual programmes, the demand for mathematics and statistics teaching throughout the Institute and the availability of current staff. Therefore, candidates who, following the application process, are deemed eligible for appointment will be placed on a rolling panel and may be appointed to teaching hours for which they are suitable throughout the academic year.

Candidates that are successful in being placed on the panel will be excellent teachers and have an active interest in education and scholarship or research. In addition to its own extremely successful portfolio of programmes, the School of Mathematical Sciences also delivers mathematics teaching of the highest quality to programmes in other disciplines throughout the Institute. The successful candidate must demonstrate the ability to deliver or support lectures, tutorials or practical classes in computer laboratories for specific mathematics or statistics modules. Candidate should therefore demonstrate a track record of prior teaching experience and cite any evidence of having delivered mathematical sciences modules not only to mathematics and statistics students but also students

studying other science and engineering disciplines. Applicants should include any evidence of having used innovative, modern, integrated teaching approaches.

Evidence of continuing professional development as a teacher (e.g. research, professional involvements, and other forms of scholarship) which will inform a candidate's teaching should be demonstrated. A successful candidate must be able to represent the school in a positive and professional manner in their dealings with students and any other interactions as part of their role. As an hourly-paid, part-time member of academic staff, successful candidates must keep accurate records, monitor performance and report on quality assurance matters in accordance with practices in the School and Institute. Those wishing to be appointed to the panel must demonstrate excellent communication skills, interpersonal skills and a commitment to contribute to a successful team.

The specific duties assigned to members of the panel upon employment on an hourly-paid, part-time basis will depend upon the hours allocated and their role as outlined by the Head of School. However, duties may include (but are not limited to):

- employing modern, innovative and engaging teaching techniques and appropriate technology to deliver teaching and/or tutorials and/or laboratory classes to students;
- carry out assessment, monitoring and evaluation of students' work, and provide academic and consultative support to students in their learning activities;
- provide ongoing feedback to programme management as required;
- developing teaching and learning materials including electronic resources where appropriate;
- undertake appropriate academic administrative tasks;
- represent in a positive manner the School of Mathematical Sciences and mathematical sciences in any dealings with students or the public;
- meet with the Management of the School in relation to allocated duties as required;
- contribute to the implementation and maintenance of academic quality assurance arrangements.

A master's degree or doctorate in a relevant discipline from a recognised degree awarding authority or evidence of current study for a higher degree is highly desirable.

Applicants should clearly outline their experience of teaching mathematics and statistics indicating the institution, the level, the number of students taught, the role played, and, where appropriate, a description of the course and the associated number of credits.

Successful candidates will have the ability to work in a team, adopt challenges and interact effectively with students, colleagues and external stakeholders. They will be excellent communicators with excellent interpersonal and organisational skills.

Applicants should demonstrate their familiarity with mathematical software packages and be comfortable with using software and technology.

For more information about the role of HPAL, rates of pay and terms and conditions of employment at DIT please contact the HR department, Dublin Institute of Technology.