



**Assistant Professor in Electronic & Computing Engineering
School of Electronic Engineering
Faculty of Engineering & Computing
Fixed Term Three Year 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 Electronic Engineering

The School of Electronic Engineering is a research-intensive school that is home to key researchers in research centres such as CONNECT, Entwine, Insight, and I-Form, in addition to particular strengths in optical and terahertz research, semiconductor characterization, communications, computer vision and medical imaging. The School provides a supportive environment for research, and its PhD research students and postdoctoral researchers produce work of significance at both national and international level. With close industry links, the School's teaching and research programmes reflect the current and anticipated needs of Ireland's industrial and commercial sectors, while at the same time meeting the most rigorous national and international academic standards. For further information, visit: <https://www.dcu.ie/electronics> and <https://ece.eeng.dcu.ie>

The Role

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

The appointee will be expected to assist the School of EE, in partnership with the School of Law and Government in the Faculty of Humanities & Social Sciences, in implementing an innovative curriculum project, specifically:

- Developing and delivering a new Bachelor's programme, the **BSc in Global Challenges**, ensuring an industry-engaged, research-led approach, integrating challenge-based learning, digital tools, hybrid delivery and inter-disciplinary assessment;
- Broader implementation of teaching approaches into other target programmes in the School;
- Engaging with university-wide elements of the initiative including cross-faculty cooperation, project evaluation and reporting.

The role includes research and scholarship, teaching, supervision of laboratory sessions, student mentoring and supervision of taught and research projects

Principal Duties and Responsibilities

The role will encompass activities across the three domains, as follows:

Teaching and Learning:

The appointee will be expected to prepare, deliver and assess a range of core subjects in a manner consistent with DCU's high academic standards and in a hybrid environment, that involves elements of on-campus and remote delivery.

Teaching extends to promoting innovation in curricula development. Typical activities include:

- Contributing to the design and development of new programmes;
- Developing and delivering new or reconceptualised modules and resources, including non-traditional, student-centred and challenge-based learning activities, including off-campus aspects to the learning process;
- Designing and assessing examinations and other types of coursework, including hybrid, remote, group and peer assessment;
- Using a wide range of teaching and assessment methodologies that foster a deep approach to learning, and equip students with the skills and attributes needed to be lifelong learners, including challenge-based learning and concentrated and immersive learning experiences;
- Co-designing with other academics and industry partners a suite of tools and initiatives that support the transversal skills pathway and embedding transversal skills development, diagnostics and assessments into new and existing programmes;
- Supervision of laboratory sessions, student mentoring and development of virtual labs;
- Proactive engagement with the renewal of existing courses and programmes;
- Engagement with professional development for teaching, particularly in that related to the approaches embedded in student projects.

Research and Scholarship

The appointee will be expected to sustain and conduct research, engage in scholarship of quality and substance, generate research income, supervise postgraduate students and publish to the highest international standard both individually and, where appropriate, in partnership with colleagues in DCU and elsewhere. The appointee will be expected to have clearly articulated research interests and research profile development plans that support the School's current research priorities, and that will underpin senior modules and projects related to the new degree programme. Candidates with a track record of research in the following areas are of particular interest:

- Power electronics, Automation/control/robotics Systems;
- Electrical systems for Sustainability Engineering/electronic efficiency/smart grid/charging
- Computer and Network Systems Privacy and Security;
- Data Sciences, Data Analytics and Machine Learning in Engineering Applications;
- Web, Cloud and Internet Engineering

Contribution to the School, Faculty, University and Profession

Examples include:

- Engagement with planning, quality review and improvement processes, and external programme accreditations;
- Involvement with appropriate professional bodies and associated initiatives;
- Development and delivery of the international activities of the School including international travel to do so;
 - Adoption of some administrative functions related to the activities of the School, the Faculty, and the wider University. Such duties will be defined by the Head of School and may include some of the following: degree programme coordination; participation in School, Faculty and University committees; visits to students on industrial placement within the DCU INTRA programme; student recruitment.

Qualifications, Skills and Experience Required

Applicants must hold an honours degree in a relevant discipline and should be qualified to a postgraduate level with a PhD specialism in Electronic and Computer Engineering, or a related discipline. The successful candidate should have a minimum of three years relevant post-doctoral experience.

Criteria

- Applicants must have demonstrated teaching experience at undergraduate and/or postgraduate level, ideally including experience in innovative pedagogies and/or assessments, international and/or online or technology-assisted teaching.
- Applications are specifically invited from those with strong research credentials in one or more of the areas listed above.
- The successful applicants will also have demonstrated potential to establish an independent research programme and to attract research funding from competitive research funding schemes and/or industry.
- Candidates should demonstrate excellent interpersonal and communication skills consistent with the highest quality of teaching and learning, together with evidence of successful teamwork and a collegial approach.

Further Information

More information on the School of Electronic Engineering and its programmes can be found at:
<https://www.dcu.ie/electronics>

Essential Training

Training required for the role should be entered here. At a minimum, the following should be entered in addition to other applicable, role specific mandatory training:

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

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](#)