Academic Appointments in Electronic and Computer Engineering: Information for Candidates
Exciting academic positions in the School of Electronic Engineering, Dublin City University

Dublin City University seeks to recruit high-performing, globally competitive academics to join its School of Electronic Engineering. Specifically, DCU is looking to recruit:

Up to 4 Assistant Professors in Electronic and Computer Engineering
(Permanent and Fixed Term Five Year Contracts)

The successful candidates will have a proven research track record, including publication in high quality peer-reviewed journals/conferences, engagement in supervision of research students, attracting research funding, and demonstrated teaching at undergraduate and postgraduate level.

Applications from individuals with both alignment of their research interests and teaching interest/expertise in one or more of the following areas are particularly welcome:

— Machine Learning (Visual Media Analytics)
— Internet of Things (IoT) Devices
— Smart Energy (Smart Grid)
— Software Defined Radio and Secure Communications
— Mechatronics (Cooperative Robotics in particular)
About DCU

Dublin City University (dcu.ie) is a research-intensive, globally-engaged, dynamic institution that is distinguished by both the quality and impact of its graduates and its focus on the translation of knowledge into societal and economic benefit. Excellence in its education and research activities has led to DCU’s consistent ranking (THE; QS) as one of the world’s leading young universities.

With a strong commitment to research excellence the University is home to a number of internationally renowned research centres in specific areas of Science, Digital Innovation, Engineering, Humanities, Social Sciences, Education and Business. As Ireland’s University of Enterprise, DCU is renowned for its commitment to innovation and entrepreneurship, and its proactive engagement with the enterprise sector.

DCU has created an environment that promotes and rewards research, scholarship, innovation, entrepreneurship and external engagement. This enables DCU to maintain and develop our areas of research excellence while encouraging researchers and partners from different disciplines to work and advance together.

About the DCU Faculty of Engineering and Computing

Today’s engineers and scientists play an increasingly important role in the future of our country and the world. This Faculty focuses on preparing students to pursue careers in the STEM and ICT sectors.

The Faculty is home to the Schools of Computing, Electronic Engineering and Mechanical and Manufacturing Engineering and hosts or participates in a number of large-scale world-class research centres, including: INSIGHT (Data Analytics), ADAPT (Digital Content Technology), Lero (Software Engineering), Entwine (Internet of Things) and I-Form (Additive Manufacturing).

The Faculty offers degree programmes at Bachelors, Masters and PhD levels, and our graduates are highly sought after by industry. We offer a supportive, innovative learning environment in classes and tutorial-style delivery, where our students have meaningful engagement with our research-active staff and also enjoy the experience in lab-based environments.

The Faculty is committed to the University strategic plans related to education, research and internationalisation activities. These, include emphasis on staff and student mobility, and engagement with opportunities to explore best practice internationally or develop international partnerships underpinning T&L excellence, undertaking research and/or developing and publishing leading practice.

The Faculty already has a significant number of very strong research and teaching linkages across the globe, particularly in the Middle East and Far East.
The School has strong innovative degree offerings at undergraduate and postgraduate levels. The Electronic and Computer Engineering BEng degree is a four-year programme, with integrated work experience and state-of-the-art Majors in Systems and Devices, High-Speed Communications, Digital Interaction, and the Internet of Things (IoT).

The Electronic and Computer Engineering Master’s degrees are highly flexible offerings that allow participants to personalise a taught Masters programme based on preferred focus areas. With a range of over twenty modules from which to choose, the programmes are highly customisable, including the options of specialising in one of five areas: Nanotechnology, Semiconductor and Plasma Technology, Advanced Data Networks, Internet of Things (IoT), and Image Processing and Analysis.

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, and 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: ece.eeng.dcu.ie
Research Profile

Platform Expertise

We have significant platform capability which connect researchers from across the School, Faculty and University under thematic umbrellas of:

— **Data Analytics**;
  primarily under the auspices of the Insight Centre for Data Analytics at DCU
  
  — Insight ([insight-centre.org](http://insight-centre.org)) is Ireland’s national research Centre for data analytics, and the largest of all SFI Research Centres

— **Future Communications, Networking and IoT**;
  research activities located in the CONNECT, Entwine, Insight, IPIC and Lero research centres
  
  — CONNECT ([connectcentre.ie](http://connectcentre.ie)) is the world leading Science Foundation Ireland Research Centre for Future Networks and Communications
  
  — The Entwine ([dcu.ie/entwine](http://dcu.ie/entwine)) centre’s mission is to design a scalable infrastructure to support the Internet of Things and its applications

Distinctive Expertise

The unique expertise that the mix of individuals in the school bring together identify four key strengths:

— **Media and Sensor Analytics**, including very significant level of activities in the Insight centre

— **Physical Communications**

— **Networking and IoT**

— **Nanotechnology and Semiconductor manufacturing**, I-Form ([www.i-form.ie](http://www.i-form.ie)) brings together a nationwide pool of expertise in materials science, engineering, data analytics and cognitive computing

Emerging Expertise

Important topical areas in which the school has identifiable emerging research strengths:

— **Mechatronics**

— **Smart Energy**
Ireland has become a global technology hub-of-choice, attracting the strategic business activities of leading Engineering and ICT companies.

The electronic engineering and ICT industries employ over 37,000 people and generates €50 billion in exports each year. Ireland is the second largest exporter of computer and IT services in the world. The country is firmly positioned as the internet capital of Europe and the data centre location of choice for many significant industry corporations. Ireland is home to 9 of the top 10 Global Software Companies, 9 of the top 10 US Technology Companies, 7 of the top 10 Global Automation Companies and 3 of the top 4 Global Design Engineering Companies.

Industry invests over €150 million in engineering Research and Development each year and the Irish government invests €700 million in research annually, with Data, Networking, IoT and Smart Energy being strategic priorities. Advanced skills development in these areas is the focus of the national training fund initiative.
Informal enquiries to:
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Head of School of Electronic Engineering
Dublin City University
Dublin 9

E: ee.head@dcu.ie
T: +353 1 700 5135
W: ece.eeng.dcu.ie

Application forms are available from the DCU Current Vacancies (open Competitions) website at: dcu.ie/vacancies/current.shtml

Human Resources Department,
Dublin City University,
Dublin 9

T: +353 (0) 1 700 5149
Assistant Professorship in Electronic and Computer Engineering

(Permanent or Fixed Term 5 Year Contract)

Introduction
The School of Electronic Engineering is seeking up to four posts at the rank of Assistant Professor to join its expanding team of academics in the domains of Electronic and Computer Engineering.

Job Requirements
- Applicants must hold an honours degree in a relevant discipline, and should be qualified to a post-graduate level with a PhD specialism in Electronic and Computer Engineering, or a related discipline.
- The successful candidates should also have a minimum of three years relevant post doctoral experience. Applications are specifically invited from those with strong research credentials and publication record, particularly in one or more of the following research areas:
  - Machine Learning (Visual Media Analytics)
  - Internet of Things (IoT) Devices
  - Smart Energy (Smart Grid)
  - Software Defined Radio and Secure Communications
  - Mechatronics (Cooperative Robotics)
- The successful applicants will have demonstrated potential to establish an independent research programme and attract research funding from competitive research funding schemes and/or industry.
- Applicants must also have demonstrated teaching experience at undergraduate and/or postgraduate level, ideally including experience in international and/or online or technology-assisted teaching.
The Role
The appointee will be expected to contribute directly to the Electronic and Computer Engineering MEng and BEng degree programmes through research-led teaching, supervision of laboratory sessions, student mentoring and supervision of taught BEng and MEng projects. Specifically, the successful applicant will be required to (inter alia):

- Prepare, deliver and assess a range of core Electronic and Computer Engineering subjects at undergraduate and postgraduate levels in a manner consistent with DCU’s high academic standards. This will extend to supporting innovation in teaching, transnational and digital provision of programmes, engaging with international travel and new technology as needed. Typical activities include:
  - Supervision of laboratory sessions, and student mentoring.
  - Supervision of undergraduate and postgraduate projects.
  - Design and assessment of examinations and continuous assessment materials.
  - Proactive engagement for the improvement of existing courses and programmes, and contributions to the design and development of new courses and programmes.
  - Liaison with other module coordinators with respect to course development and delivery, and participation in the ongoing development of programmes.
  - Development of materials and resources to support blended and online delivery of modules within the School.
  - Engagement with professional development for teaching.

- Pursue an active research agenda with ongoing research publications in leading international academic journals, peer-reviewed conferences, and with high profile book publishers, both individually and, where appropriate, in collaboration with colleagues in DCU and elsewhere.
  - Develop an independent research programme and attract research funding from competitive research funding schemes and/or industry.
  - Participate in research-related administration such as research student supervision, PhD thesis examination and related duties.

- Contribute to the school, faculty, university and profession:
  - Engagement with strategic 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 of Electronic Engineering, including international travel to do so.
  - Adoption of some administrative functions related to the activities of the School of Electronic Engineering, the Faculty of Engineering and Computing, 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 committees; visits to students on industrial placement within the DCU INTRA programme; student recruitment.
Salary Scales:
Assistant Professor above bar: €52,188 - €83,039*
Assistant Professor below bar: €39,123 - €53,784*
* Appointment will be commensurate with qualifications and experience, and will be made on the appropriate point of the Assistant Professor Above Bar or Assistant Professor Below Bar salary scale in line with current Government pay policy.

Application Procedure
Informal enquiries to the Head of School of Electronic Engineering: ee.head@dcu.ie. Please do not send applications to this email address.

Application forms are available from the DCU Current Vacancies (Open Competitions) website at http://www.dcu.ie/hr/vacancies/current.shtml and also from the Human Resources Office, Dublin City University, Dublin 9. Tel: +353 (0)1 700 5149

Application forms and CV should be submitted by email to hr.applications@dcu.ie or by post to the Human Resources Department, Dublin City University, Dublin 9.

Please clearly state the role that you are applying for in your application and email subject line: Job Ref #BC1210: Assistant Professor in Electronic and Computer Engineering

Application Deadline: 3rd May 2019

 Dublin City University is an equal opportunities employer