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

Dublin City University seeks to recruit high-performing, globally competitive academics to join its School of Computing.

Specifically, DCU is looking to recruit:

An Assistant Professor (Software Engineering)
(Fixed term five year contract)
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

The Faculty of Engineering and Computing at DCU 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. We are national leaders in delivery of online education at graduate level.

The Faculty is committed to the University strategic plans related to education, research and internationalisation activities. These include emphasis on staff and student mobility, 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 Europe and Asia.
About the DCU School of Computing

The School of Computing maintains teaching activities as central to our mission. We have three leading bachelor’s degree programmes: the BSc in Computer Applications, the BSc in Enterprise Computing, and the BSc in Data Science, the first of its kind in Ireland. We also offer a range of innovative taught master’s programmes aimed at producing graduates with the professional and personal skills most sought-after by industry.

The School is an active centre of research and innovation, with many domain pioneers among our staff and an excellent track record of attracting significant funding from Irish (e.g. Science Foundation Ireland) and international sources.

The School is a major stakeholder in two Irish SFI research centres, specifically: the Insight Centre for Data Analytics and the ADAPT Centre for Digital Content Technology, together employing a significant number of high-performing researchers. Furthermore, staff are significantly involved in a number of other research groups including Lero the Irish Software Research Centre and the ARC-SYM Advanced Research Computing for Complex Systems Modelling Centre.

The School provides a supportive environment for research, and its numerous PhD and MSc research students produce work of significance at both national and international level.

The School is home to three centres for doctoral research training in:

— Artificial Intelligence
— Machine Learning
— Digitally Enhanced Realities

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.

Full information about the School can be obtained from its website: computing.dcu.ie

Software and ICT in Ireland

Ireland is at the heart of ICT in Europe. The country has become a global technology hub-of-choice, attracting the strategic business activities of leading ICT and Software companies. The industry employs over 37,000 people and generates €35 billion in exports annually. Ireland is home to 16 of the top 20 Global Software Companies, 9 of the top 10 US Technology Companies, the 3 top Global Enterprise Software Companies and 4 of the top 5 IT Services Companies. The Irish government invests €700 million in research annually, with Data, Software and ICT being strategic priorities. Advanced skills development in these areas is the focus of the national training fund initiative.
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

— **Software and Systems Engineering**;
  largely within the Lero centre and some research activity in INSIGHT, ADAPT and ARC-SYM centres

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

— **Media Analytics**, including very significant level of activities in both Insight and ADAPT research centres

— **Natural Language Processing**, which is the primary focus of the ADAPT Centre

— **Complex Systems Modelling**, where ARC-SYM members address complex problems that can be modelled computationally

— **Security and Cyber Security**, which addresses both offline and online data security issues and security in software design

The School of Computing encourages academics to become international research leaders in their fields, and we can identify important topical areas in which the school has identifiable emerging research strengths:

— **FinTech** addresses the international competitiveness of the Irish Financial Services Sector through cutting-edge Financial Technology research in RegTech, InsureTech and PayTech

— **Data and the citizen (Privacy, protection and ethics)**, which addresses the intersection of technology and societal interests in the context of increasing reliance on technology and AI in all aspects of our lives, and seeks to put the interests of individual at the centre of the technical ecosystem

— **Educational Analytics**, which aims to explore how data analytics can assist the learning process
Research Centres in Computing

The School is a major stakeholder in two Irish SFI research centres: the Insight SFI Research Centre for Data Analytics and the ADAPT SFI Research Centre for Digital Content Technology.

Furthermore, staff are significantly involved in a number of other research groups including Lero the Irish Software Research Centre, ENABLE the SFI Spoke on IoT and the SFI funded FinTech Fusion spoke.

Lero The Irish Software Research Centre

Lero (lero.ie) brings together leading software research teams from Universities and Institutes of Technology in a coordinated centre of research excellence with a strong industry focus. Lero’s research is focused on how software comes into being and how it evolves over time, with an emphasis on reliability, security and fitness-for-purpose.

Insight Centre for Data Analytics

Insight (insight-centre.org) is Ireland’s national research Centre for data analytics, and the largest of all SFI Research Centres. Insight brings together over 400 leading researchers and groups from higher education institutions across Ireland, in a single, coherent research centre. Its research explores fundamental topics in the core of the discipline, such as statistical models and constraint programming, as well as applications and commercial projects with 80+ industrial partners.

ADAPT Centre for Digital Content Technology

The ADAPT Centre (adaptcentre.ie) is Ireland’s global centre of excellence for digital content technology. ADAPT brings together 250 researchers who collectively have won more than €100m in funding and have a strong track record of transferring world-leading research and innovations to more than 140 companies. The new ADAPT FinTech Fusion Spoke has secured €4m funding for a research programme which contributes and aligns with the goals of the Irish Government’s International Financial Services 2020 Strategy.
Available Position

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

**Assistant Professor in Computing**  
*(Fixed term five year contract)*

**Person Specification**

Applicants for the posts must hold an honours degree and have completed a Doctoral qualification in a relevant field. The successful candidate should also have a minimum of three year’s relevant postdoctoral experience, with a record of high quality university level teaching.

The successful candidate will have a research track record, including publication in high quality peer-reviewed journals/conferences, engagement in supervision of research students, attracting research funding, and will be expected to demonstrate an alignment of their research interests with existing Platform, Distinctive and/or Emerging research expertise within the School of Computing.

The successful candidate will be expected to contribute to teaching, curriculum development and administrative activities in the School of Computing, across all levels. Applications from individuals with both a teaching interest/expertise in one or both of the following areas would be particularly welcome:

— Security,
— Software Engineering

The appointees will be required to contribute directly to degree programmes through research-led teaching, supervision of laboratory sessions, student mentoring and supervision of student projects. Specifically the successful applicant will be required to (inter alia):

— Prepare, deliver and assess a range of core Computing subjects at undergraduate and postgraduate levels. This will extend to supporting innovation in teaching, transnational and digital provision of programmes, engaging with international travel and new technology as needed.
— Supervision of laboratory sessions, and student mentoring
— Supervising undergraduate and postgraduate projects
— Engaging with professional development for teaching
— Liaising with other module coordinators on course development and delivery, participation in the ongoing development of programmes
— Engagement in high quality research activities (publications in high impact factor journals, and presentations at international conferences) independently and in association with one or more existing research groups/centres.

— Must have the potential to establish an independent research programme and attract research funding from competitive research funding schemes and/or industry

— Is expected to participate in research-related administration such as research student supervision, PhD thesis examination and related duties

— Contribute to the school, faculty, university and profession, for example:
  — in terms of strategic planning, quality review and improvement processes and external programme accreditations.
  — via involvement with appropriate professional institution(s) and associated initiatives.
  — developing and delivering the International Activities of the School of Computing, including international travel to do so.

— Undertake some administrative functions related to the activities of the School of Computing, 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.
Application Procedure

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

Informal Enquiries to:
Professor Martin Crane, Head of the School of Computing
E: martin.crane@dcu.ie
*Please do not send applications to this email address, instead apply as described below.

Further information:
More information on the School, including specific areas of research expertise and details of taught programmes, may be found at: computing.dcu.ie

Salary Scales:
Assistant Professor (Below Bar) €39,808 - €54,725
Assistant Professor (Above Bar) €53,101 - €84,492
*Appointment will be commensurate with qualifications and experience and in line with current Government pay policy

Closing date: Thursday, 30th April 2020

Application Procedure:
Application forms are available from the DCU Current Vacancies website at: dcu.ie/hr/vacancies/current.shtml and also from the Human Resources Department, Dublin City University, Dublin 9. T: +353 (0)1 700 5149; F: +353 (0)1 700 5500; E: hr.applications@dcu.ie

Please clearly state the role that you are applying for in your application and email subject line: Job Ref #BC1115 - Assistant Professor in Computing

Applications should be submitted by e-mail to hr.applications@dcu.ie.

Dublin City University is an equal opportunities employer and is dedicated to promoting gender equality reflected in its attainment of the Athena SWAN Bronze Award. Information on a range of university policies aimed at creating a supportive and flexible work environment are available at: dcu.ie/policies/policy-starter-packs.shtml.