



NUI Galway
OÉ Gaillimh



Lecturer Above the Bar in Computer Science (2 Posts)

Specific Purpose Contracts, Contract Type B

REF: 009548



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LECTURER ABOVE THE BAR IN COMPUTER SCIENCE

| | |
|---------------------------|--|
| College | College of Science and Engineering |
| School | School of Computer Science |
| Post Title & Subject Area | Lecturer Above the Bar (Type B) in Computer Science (2 Posts) |
| Post Duration | Specific purpose contract |
| Level | Lecturer Above the Bar (Type B) |
| Reports to | Head of School |

JOB ADVERTISEMENT

Applications are invited for an appointment as Lecturer Above the Bar in Computer Science at the National University of Ireland Galway (NUI Galway). Two new posts may be filled as a result of this recruitment. These are specific purpose posts with a planned duration of 3 years. For these posts, we are seeking candidates who can demonstrate a world-class research profile, or its potential from industry experience, as well as teaching expertise in one in the following specialisms:

- A. Cybersecurity
- B. Cloud Computing / Networking
- C. Data Analytics / Data Science
- D. Human-Computer Interaction

In their applications, candidates are requested to identify which one of these specialisms they wish to be considered for, and provide evidence of expertise in the specialism.

The successful candidates will actively contribute to the University's strategic vision for Computer Science, and will participate in research, teaching, student project supervision, and programme administration across a complementary portfolio of our undergraduate and postgraduate programmes.

Research contribution is of fundamental importance for these posts. The appointees must be capable of acting as principal scientific investigator on large-scale externally funded projects and will be expected to provide leadership and research supervision to the members of their research group. They will be expected to attract R&D funding, and demonstrate clear plans to apply for major funding awards, for example, from Science Foundation Ireland and the European Research Council (ERC) Grant programmes. The appointee will also be required to develop national and international collaborations with academia and industry. The new appointee will be expected to disseminate their work through high quality peer-reviewed journals, high-impact conferences, and workshops.

The successful candidates will contribute to teaching of fundamental and applied computer science on our portfolio of undergraduate and taught postgraduate programmes, as well as participating in academic programme management, marketing and outreach activities. The appointed candidates will be expected to develop new curricula, prepare and deliver materials for online and classroom modes of delivery, supervise undergraduate and postgraduate students in their project work, and conduct related administrative duties.

NUI Galway has been inspiring minds since 1845 as a research-led university. NUI Galway is one of the oldest and largest universities in Ireland. The campus community includes over 21,000 students and staff and 110,000 alumni located in over 100 countries across the world. NUI Galway is counted among the Top 300 universities in the world, positioned in the top 2% in QS global rankings. NUI Galway is an international university with global ambition, but with deep roots in the region and nationally. Our university is at the heart of a distinct and vibrant region, renowned for its unique culture, creative industries, medical technologies, marine ecology, tech sector, and innovation.

In Computer Science research and teaching, NUI Galway holds a strong international reputation. In the 2022 Times Higher Education world university rankings by subject, Computer Science at NUI Galway is ranked joint first in Ireland.

The School of Computer Science is ambitious and growing, and we invite the new appointees to contribute to this together with us. The vision of the School of Computer Science is to build a strong and sustainable learning environment with world-recognised research that informs high-quality undergraduate and postgraduate teaching that is inclusive and relevant to the needs of our stakeholders and society in general. The School of Computer Science was initially established in 1991 as the Information Technology Discipline, and became a School in 2019, recognising its growth and significance. The School currently has 30 academic staff, 7 support staff and over 50 research staff, and is expanding. In each of the past 5 years, the School has launched new degree programmes, and is committed to growing its research and teaching profile. The School of Computer Science is known for its research in theoretical and applied CS, and its high-quality and highly popular postgraduate taught programmes, complementing its strengths in undergraduate teaching.

Academics in the School of Computer Science have a strong track record of research in topics including artificial intelligence; machine learning; data visualisation; data science; natural language processing; system modelling and simulation; games and digital media; cybersecurity; software engineering; and networking. The School includes members of the Data Science Institute (DSI) and the associated Insight SFI Centre for Data Analytics, which has a strong international reputation in data analytics. In addition, there are opportunities for academic staff to engage in collaborative research with other national research centres such as LERO (the SFI Irish Software Research Centre), CONNECT (Ireland's centre for future networks and communications) and Centres for Research Training funded by Science Foundation Ireland in topics including Artificial Intelligence and Virtual Reality.

The School of Computer Science has a broad portfolio of popular and successful taught programmes at undergraduate and postgraduate level, including: The BSc in Computer Science & Information Technology, a 4-year programme with work placement that is professionally accredited; Higher Diploma and MSc in Software Design and Development; MSc in CS Artificial Intelligence; MSc in CS Data Analytics; Pg.Cert. in AI for Managers; and new part-time online Postgraduate Diplomas in Cybersecurity, Cloud Computing and Software Development.

For detailed information on the requirements attached to each scale, please refer to the Eligibility Requirements section of the Job Description.

For informal enquiries, kindly contact Ms Deirdre King, School Administrator (deirdre.king@nuigalway.ie, +353-91-493259) or Professor Michael Madden, Chair of School of Computer Science (michael.madden@nuigalway.ie, +353-91-493797). For additional information about the School of Computer Science in NUI Galway, please see our website: <http://cs.nuigalway.ie>.

Salary: €68,104 to €88,578 p.a. (applicable to new entrants effective from January 2011).

(This appointment will be made on the **Lecturer Above the Bar** scale in line with current Government pay policy.)

Closing date for receipt of applications is 17:00 (Irish Time) on 14th July 2022. It will not be possible to consider applications received after the closing date.

Garda vetting will apply.

Appointments will be conditional on work authorisation validation. Further details are available at www.djei.ie.

For more information and Application Form please see website: <http://www.nuigalway.ie/about-us/jobs/>. Applications should be submitted online.

Please note that appointment to posts advertised will be dependent upon University approval, together with the terms of the Employment Control Framework for the higher education sector.

National University of Ireland Galway is an equal opportunities employer.

Equal Opportunity Statement

NUI Galway is proud to be an equal opportunity employer and holder of an Athena SWAN Bronze award. We celebrate the diversity of our staff and students and work to support an inclusive environment free from discrimination and harassment.

We are committed to supporting all staff through a comprehensive suite of flexible working schemes, family-friendly policies, training and development, and staff networks. Further information on equality at NUI Galway can be found at: www.nuigalway.ie/equalityanddiversity

The School of Computer Science is deeply committed to making real and lasting changes to career development in supporting and advancing women throughout the pipeline including attracting more women into computer science at both undergraduate and postgraduate level, and the career development of postdoctoral researchers and staff.

JOB DESCRIPTION

Principal Duties and Responsibilities

The post-holder duties will include, but not be limited to, the following:

Teaching

To give instruction and supervision, as directed by the Head of School, to students of the University in courses and programmes organised by the School or to which the School contributes to another School or College. Such duties to include curriculum and course design, preparation and delivery of lectures, tutorials, project supervision and general examination and other assessment responsibilities. The post-holder is also required to be available to students for academic counselling and advice. Academic activities may also include laboratory or workshop instruction, site visits and other off-campus activities.

Research

To engage in research and other creative and innovative activity as appropriate to the discipline. The post-holder is required to disseminate their research in academic publications, other outlets as appropriate and to participate in postgraduate supervision. The post-holder is encouraged to engage in initiatives to seek research funding, as appropriate. The post-holder is also encouraged to promote and engage in the development of collaborative research.

Contribution and Scholarly Activity

To participate in academic administration at School, College and University levels as part of their contribution to the University. To engage with the wider community regionally, nationally and internationally from a civic, economic, social and cultural perspective as a contribution to the life of the University. In representing the University externally, the post-holder is expected to maintain the highest professional standards, thereby enhancing the reputation of the University. The post-holder is expected to engage in scholarly activity such as, but not limited to, refereeing of journals, membership of discipline related advisory bodies and peer review panels and work associated with external examinership.

The post-holder shall carry out these duties under the direction of the Head of the School or of an authorised senior member of the staff of the School.

The post-holder shall be a member of College/Colleges in accordance with University Statutes.

The hours of work are those prescribed under the Public Service Agreement in respect of Academic Staff.

ELIGIBILITY REQUIREMENTS

Essential Requirements:

- Qualifications:
 - A primary degree and a PhD degree in Computer Science or a closely related discipline.
- Teaching, Learning and Supervision:
 - Significant track record of lecturing in Computer Science at University level;
 - Knowledge and experience of technological innovations in teaching.
- Publications and Research:
 - Strong ongoing publication record as senior author in Computer Science, in high-ranking international peer-reviewed journals, commensurate with the grade;
 - Research funding record that includes evidence of having secured at least one competitively awarded and peer-reviewed research funding grant;
 - Demonstrated ability to lead a team of researchers and to contribute to supervision of PhD students;
 - Capacity to develop a world-class research programme, with evidence that the candidate's research has an international profile.
- Strategy and Vision:
 - A research strategy that aligns with the School's research areas, and that includes a multi-year plan for research funding acquisition, recruitment of Ph.D. students, and building on the candidate's existing research track record;
 - A strong commitment to working with colleagues within existing research groups, and a willingness to develop and lead new research as appropriate;
 - A clear vision for how their teaching and research aligns to the requirements of the post and complements that of the School of Computer Science.
- Contributions, Collaboration and Communication:
 - Demonstrated capacity to conduct programme administration and management;
 - A commitment to contributing to new and existing undergraduate and postgraduate programmes, including the development of new modules and new programmes;
 - Demonstrated experience of working with industry and strong commitment to future industrial engagements;
 - Excellent communication and teamwork skills;
 - Capacity for leadership and strong ability to work well with people, including a commitment to develop collaborative relationships with other academic staff for teaching and research objectives.

Desirable Attributes:

- A number of years of post-doctoral experience in Computer Science;
- Experience of programme administration in a university environment;
- A formal qualification in Teaching & Learning.

The appointment will be made to the School of Computer Science.

****Please refer to separate information booklet for details on application and appointment procedure.****

Competency Framework for Lecturer (Contract Type B) Roles at NUI Galway

| | Academic Excellence | | Leadership Excellence | | Organisational Excellence |
|-------------|---|----------------------------|--|----------------------------|--|
| CORE | <p>Excellence in Research</p> <p><i>The Lecturer (Contract Type B) furthers their discipline and contributes to the body of knowledge in their area through planning, carrying out and publishing/ disseminating their own high-quality research, building and leading research groups and providing supervision and support for postgraduate students to enable them to produce quality research. They keep up to date with relevant developments in their field and network and collaborate with others, both internally and externally, to optimise the value and relevance of the research being produced and to maximise the School's/Discipline's ability to attract research funding.</i></p> | CORE | <p>Personal Effectiveness</p> <p><i>The Lecturer (Contract Type B) is enthusiastic about their discipline and is committed to making their best personal contribution through employing excellent planning and organising, communication and decision-making skills to achieve their goals and through working hard and being flexible in order to meet the multiple and changing demands of the Lecturer (Contract Type B) role.</i></p> | CAPACITY TO DEVELOP | <p>Strategy & Vision</p> <p><i>The Lecturer (Contract Type B) should contribute to the strategic development of the discipline by developing a strong awareness of the wider environment, how the discipline is developing and how the School/Discipline can develop in the long term to optimise its contribution. He /She must have the ability to make a strong case for the development of new programmes or engaging in joint programmes or collaborations that they feel will add long term value to the School/Discipline.</i></p> |
| CORE | <p>Excellence in Teaching</p> <p><i>The Lecturer (Contract Type B) develops and delivers quality teaching programmes which engage and inspire students at all levels and maximises their learning. They are confident in using a range of teaching techniques, are open to innovations in teaching and are focused on continually developing their own teaching skills.</i></p> | CAPACITY TO DEVELOP | <p>Leading Others</p> <p><i>The Lecturer (Contract Type B) must work well with others, providing leadership and direction to students, colleagues and support staff in relation to projects or areas of work that they are leading on. They effectively encourage, support and manage the contributions of others to deliver results for the discipline and to ensure that high standards are met.</i></p> | DEVELOPING | <p>Collegiate & Community Contribution</p> <p><i>The Lecturer (Contract Type B) values and engages in a collegiate approach to working with others, within their own discipline, school and university and also within the wider external community. S/he actively seeks to build effective networks and is willing to contribute their time and expertise to a range of broader university wide or community projects.</i></p> |