

Candidate Information

Position: Lecturer in Machine Learning
School/Department: Centre for Intelligent Sustainable Computing (CISC)
Reference: 25/112519
Closing Date: Monday 26 May 2025
Salary: £43,605 - £60,284 per annum.
Anticipated Interview Date: Friday 27 June 2025

JOB PURPOSE:

The School of Electronics, Electrical Engineering & Computer Science (EEECS) at Queen's University Belfast (QUB), is seeking to appoint a Lecturer in Machine Learning. The successful applicant will contribute to our ambitious research agenda and help to establish QUB as an international leader in Machine Learning research and the application of this research to real-world challenges. The post holder is expected to develop an independent program of world class research and innovation, engaging with the transformative innovation programs being delivered by QUB as part of the Belfast Region City Deal (BRCD) as appropriate. They will enhance an excellent student experience via research-led teaching and assessment and will also contribute to administration of the School and the University, to citizenship in their research communities, and to outreach activities that showcase research to the wider public.

MAJOR DUTIES:

Teaching:

1. To contribute to the design, delivery, and improvement of Computer Science curricula.
2. To contribute to the School's efforts to develop new teaching delivery methods, including but not limited to new blended learning and research-led teaching methods.
3. To undertake initiatives to improve the overall student experience, by innovative methods of assessment, feedback, and student engagement.
4. To supervise undergraduate and postgraduate taught students in practical and project-based work appropriate to the relevant courses of study.
5. To contribute to student recruitment and student support.

Research:

1. To lead and undertake a research programme in Machine Learning, contribute to securing external research funding, and develop collaborative and interdisciplinary research activities.
2. To publish research in peer-reviewed national and international journals and conferences in Machine Learning and related areas.
3. To engage in knowledge transfer and innovation activity including contributions to BRCD initiatives, and to deliver high quality research impact.
4. To participate in relevant regional, national, and international research initiatives in Machine Learning and related areas.
5. To contribute to the strategic growth and mission of school and research institutes.
6. To engage, mentor and develop postgraduate or post-doctoral researchers.

Administration/Contribution to the Community:

1. To contribute to outreach and internationalisation activities by developing external links.
2. To carry out designated administrative duties including, for example, committee work, working group leadership or course administration.
3. To contribute to the development of the wider research discipline through reviewing of research article and grant proposals, organisation of conferences and workshops, and other relevant initiatives.
4. To support and contribute to the development of the EEECS community, values and culture, including Equality, Diversity, and Inclusivity activities.

5. To participate in and support the Personal Development Review (PDR) process.

ESSENTIAL CRITERIA:

1. A PhD in Computer Science, Computer Engineering, Electronic Engineering (or related disciplines).
2. A strong record (commensurate with career stage) of conducting and publishing high quality research in Machine Learning (ML), including but not limited to: optimisation, explainable ML, distributed and federated learning, causal ML, graph ML, self-supervised learning, and ML for science, finance, cybersecurity and communication.
3. Evidence of independent contribution to research projects and outputs and potential to establish an independent and sustainable research program.
4. Evidence of contribution to national and international collaborations.
5. Evidence of teaching experience including but not limited to undergraduate and postgraduate level teaching, assessment and/or industrial training activities.
6. Evidence of ability to contribute to School or University administrative tasks.
7. Evidence of engagement in activities that are of service to the wider discipline including but not limited to scientific reviewing and editing, organisation of workshops and/or conferences.
8. Ability to effectively communicate (in English) complex information to a variety of audiences.
9. A commitment to creating a supportive academic environment, enhancing equality, diversity, and inclusivity, and supporting early career academics.
10. Ability to work in a team to deliver high quality teaching and research.

DESIRABLE CRITERIA:

1. Completed a Postgraduate Certificate in Higher Education Teaching (or equivalent) qualification.
2. Successful coordination of major research consortia based in the UK, EU, or internationally.
3. Evidence of contribution of research income generation.
4. Evidence of research translation and/or impact.
5. Evidence of successful supervision or mentoring of PhD students, research staff, or industry equivalent experience.
6. Successful enhancement or creation of undergraduate or postgraduate programmes in Computer Science, Artificial Intelligence, or related areas.
7. Evidence of ability to contribute to community/outreach, public engagement, or impact-related activities.

ADDITIONAL INFORMATION:

Informal enquiries can be directed to: Hui Wang - h.wang@qub.ac.uk.