Candidate Information

Position: Lecturer/Senior Lecturer in Intelligent Systems
School/Department: School of Electronics, Electrical Engineering and Computer Science
Reference: 24/111559
Closing Date: Monday 26 February 2024
Salary: £41,331 - £68,194 per annum.
Anticipated Interview Date: Friday 22 March 2024

JOB PURPOSE:

This role requires an electronic engineer, computer engineer or computer scientist to undertake advanced research in Intelligent Systems related areas and contribute to our ambitious research agenda and University-wide efforts to establish Queen's as an international leader in intelligent systems research and the application of this research to address global challenges. The post holder is expected to undertake world class innovation and mission-led research programmes complementing their research and contribute to excellent student experience via research led teaching and assessment. They will also contribute to administration, outreach, and impact activities, specifically capitalising on the major opportunities afforded by the UK Industrial Strategy, UKRI, European and Global initiatives, and ongoing investment in the area via the Belfast Regional City Deal (BRCD).

MAJOR DUTIES:

Teaching:

1. To contribute to the design delivery and improvement of mechatronic, embedded systems and intelligent systems content in our undergraduate and postgraduate taught programmes.
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 new methods of assessment, feedback, and student engagement.
4. To supervise undergraduate and postgraduate taught students in practical and project-based work as appropriate to the relevant courses of study.
5. To contribute to student recruitment and student support mechanisms.

Research:

1. To lead and undertake a research programme in Intelligent Systems related areas, contribute to securing substantial external funding and develop large, income-generating collaborative and interdisciplinary research activities.
2. To publish in high-quality peer-reviewed national or international journals and conferences.
3. To engage in knowledge transfer and innovation activity and to deliver research impact.
4. Where appropriate to engage with regional and national Government initiatives, notably the UK industrial strategy and UKRI initiatives.
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 the outreach and internationalisation of the School of Electronics, Electrical Engineering and Computer Science (EEECS) at Queen's University Belfast by developing external links.
2. To carry out designated administrative duties including, for example, committee work, working group leadership or course administration.
3. To participate in and support of the Personal Development Review (PDR) process.

ESSENTIAL CRITERIA:

1. A PhD in Electronic Engineering, Computer Engineering, Computer Science, or related discipline.

2. Demonstrate postdoctoral research experience in a relevant area, including but not limited to, intelligent mechatronic systems, cognitive robotics, embedded systems, Industrial IoT, and data driven modelling and simulation (digital twins) for system optimisation.

3. A record of high-quality research publication in top-tier journals and conferences commensurate with stage of career.

4. Evidence of independent contribution in research projects and outputs and potential to establish an independent sustainable research program.

5. Evidence of contribution to research income generation.

6. Evidence of contribution to national and international collaborations.

7. At Senior Lecturer level - evidence of successful supervision/mentoring of PhD students and/or Research staff.

8. Evidence of teaching experience include but not limited to undergraduate and postgraduate level teaching, assessment and/or industrial training activities.

9. At Senior Lecturer level evidence of acting in a leadership role regarding teaching activities.

10. Ability to contribute to School or University administrative tasks and to engage in activities that are of service to the wider discipline.

11. Evidence of ability to contribute to community/outreach, public engagement, or impact-related activities.

12. At Senior Lecturer level there should be evidence of successful contribution to administration and service to the discipline.

13. Ability to communicate effectively (in English) complex information to a variety of audiences.

14. A commitment to creating an inclusive and supportive academic environment enhancing equality, diversity, and supporting early career academics.

15. 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. At Senior Lecturer level - Successful coordination of major research consortia based in the UK, EU, or internationally.

3. Successful enhancement or creation of undergraduate or postgraduate modules or programmes in electronic engineering, computer engineering or computer science.

4. Experience of participation in Government / Industry advisory groups, funding panels or similar.