Lecturer / Senior Lecturer in Formal Methods

Key Expectations
This position provides a significant opportunity for an inspirational individual to develop their research while taking a central role in the delivery of teaching within a successful and supportive environment. This role will focus on:

- Carrying out research, and developing and delivering research-led teaching in computer-based formal methods and their applications
- Contributing to strategies for improving student guidance and pastoral care
- To lead and contribute to undergraduate and postgraduate teaching and assessment; supervise undergraduate and master’s dissertations and postgraduate research students, providing pastoral support and guidance when needed.
- To disseminate research findings through national and international conferences and other avenues.
- To attract funding for research from a range of peer reviewed external sources.
- To contribute towards the development and running of cutting-edge research projects.
- Promote a research culture that encourages and celebrates a rich diversity in its workforce and that upholds the highest standards for its research integrity, data reproducibility and collaborative spirit.

Essential for Senior Lecturer
- Participate in leadership for access and engagement
- Lead initiatives for online and in-person teaching

The Person
We expect candidates to demonstrate an ability to assume an independent teaching and research career with evidence of the following:

- University level teaching of software engineering, focusing on teaching programming in particular
- Academic guidance and pastoral care of students
- Published research in the area of formal methods in well regarded journals and conferences

Essential for Senior Lecturer
- Have some experience of applying successfully for research funding
- Guiding and promoting the careers of colleagues
Knowledge, Skills and Experience

Essential
- Deep knowledge of software engineering and experience in teaching practical computing science topics
- Course preparation and delivery skills relating to computing science
- Evidence of carrying out research within agreed timelines, meeting project milestones and producing research to an appropriate standard.

Desirable
- Experience of professional counselling and/or pastoral responsibilities
- Experience of engaging industry in developing taught courses

Essential for Senior Lecturer
- Experience of EDI and assessment/engagement activities
- Experience of organising a team to deliver teaching
- A demonstrated ability to undertake independent research and to work as part of a multidisciplinary research team to successfully deliver research projects
- A proven track record in conducting and publishing high-quality research in peer reviewed internationally recognised journals

Attributes and Behaviour

Essential
- Passionate about promoting a positive experience for all students
- Effective time management that balances research and teaching demands
- Passionate about promoting equality, inclusion and diversity
- Promotes a culture of mutual respect

Desirable
- Willingness to engage and further industry involvement in teaching and international teaching collaborations

Qualifications

Essential
- PhD awarded in Computer Science

Desirable
- Membership of learned societies and academies

Essential for Senior Lecturer
- Teaching qualification / recognition of teaching experience e.g. PGCE or UKPSF FHEA or SFHEA