

Job Detail

School of Science, Engineering and Environment

Directorate of Computer Science and Engineering

Senior Lecturer in Computer Science (Software Engineering)

Grade 9

(Ref: MPF4010)

Role Title: Senior Lecturer in Computer Science (Software Engineering)

Reports To: Head of Computer Science

Role Detail

Role Purpose

The purpose of this role is to:

- Undertake research of international quality and knowledge transfer, contributing to current and emerging research themes in the School and University, co-ordinating or supervising the work of others when required.
- Lead, plan, design, develop and deliver a range of high-quality programmes of study at all levels, ensuring that programme design and delivery comply with the academic quality standards and regulations of the University.
- Lead facilitation of high-quality and engaging learning across a range of modules, programmes, and short courses, on campus and online, developing, deploying and demonstrating strategies that maximise student engagement, attainment, and progression.
- Manage staff as necessary, ensuring colleagues are supported and developed to reach their full potential.

Responsibilities

Research and Innovation

- Undertake independent research, with demonstrable impact on e.g. industry, practice, policy, regulation and public organisations, acting as principal investigator and project leader where appropriate.
- Contribute to the reputation of research in the School and University through national and international collaboration and publication in peer-reviewed international academic journals and other forms of dissemination in quantities appropriate to the discipline, achieving citations, reviews and other forms of peer recognition.
- Generate significant external funding, including research, knowledge transfer and engagement grants.
- Act as a referee or editor for journals, seek membership of major committees and significant research bodies and contribute to other types of peer assessment.
- Make presentations or exhibitions at national or international conferences and other similar events.
- Seek membership of major committees and significant research bodies, and major input to national/international journals.
- Carry out and support actively research and scholarship which informs programme currency and delivery.
- Mentor colleagues and supervise postgraduate research students as appropriate.

Learning and Teaching

- Initiate and lead the development and delivery of taught and/or research programmes, with outstanding delivery, both face-to-face and online.

- Assist the Head, Director and other colleagues in ensuring that teaching and professional activities are maintained in accordance with accepted professional and University standards.
- Supervise undergraduate and postgraduate student projects, field trips and placements and act as a personal tutor.
- Develop and apply innovative and highly effective teaching techniques and assessment procedures across the breadth or depth of the subject area, with appropriate professional recognition and dissemination of good practice via publication.
- Engage in scholarship to inform curriculum and course design through e.g. research, industrial engagement, working with communities, third sector organisations etc.
- Lead quality enhancement processes, engaging with student feedback, reflecting constantly and striving for the best possible student outcomes.

Leadership, Management and Administration

- Take a lead in your own area of expertise, and support colleagues with less experience, acting as a mentor and advising on personal development where appropriate.
- Plan, co-ordinate and lead implementation of teaching, research, enterprise and industry/community engagement projects and programmes, monitoring and managing budgets to ensure effective use of resources, and ensuring delivery to high standards.
- Lead and co-ordinate colleagues to ensure student needs and expectations are met and exceeded; Act as a programme and module leader as required and develop and deploy strategies to maximise student engagement in learning, driving strong performance and progression outcomes for a diverse range of students.
- Discharge administrative duties in an efficient and timely manner and undertake senior level administrative and managerial roles such as Programme Leader, Subject Head, etc.
- Engage with and participate in the University's performance review process as both reviewer and reviewee.

Other tasks

- Perform any other duties appropriate to the grade as may be required by your line manager.
- Comply with the personal health and safety responsibilities specified in the University Health and Safety policy.
- To engage with the University's commitment to put our students first and deliver services which are customer orientated, represent value for money and contribute to the financial and environmental sustainability of the University when undertaking all duties and aspects of the role.
- Promote equality and diversity for students and staff and sustain an inclusive and supportive study and work environment in accordance with University policy.
- This role detail is a guide to the work you will initially be required to undertake. It may be changed from time to time to meet changing circumstances. It does not form part of your Contract of Employment.

Indicative level of membership for Higher Education Academy: Senior Fellow

Person Specification

Qualifications

	The successful candidate should have:	Essential/ Desirable	Tested by* A, I, P, T
1	Hold a Postgraduate Certificate of Academic Practice or equivalent higher education teaching qualification or commitment to enrol on the University programme during the probationary year and complete within three years.	Essential	A
2	Hold a PhD (or appropriate higher degree) in related subject area or have equivalent and quantifiable industrial experience at this level.	Essential	A
3	Membership of subject related professional bodies.	Desirable	A
4	Senior Fellowship of the Higher Education Academy (HEA), or international equivalent	Desirable	A

Background & Experience

	The successful candidate should have:	Essential/ Desirable	Tested by* A, I, P, T
5	Significant, quantifiable experience of academic leadership in teaching and/or research or equivalent industrial experience.	Essential	A, I
6	Substantial experience of planning, preparing, and delivering high quality undergraduate and/or postgraduate teaching and assessment, on campus and online.	Essential	A, I
7	Understanding of the metrics for evaluation of teaching quality and student experience in contemporary Higher Education.	Essential	A, I
8	Established research (or equivalent industrial experience) in the subject domain.	Essential	A, I, P
9	Publication(s) in high quality Computer Science related journals and international conferences.	Desirable	A, I
10	Evidence of contribution to research bidding activities and grant applications.	Desirable	A, I
11	Industrial/organisational experience in the subject domain, including the management of Knowledge Transfer Partnerships.	Desirable	A, I

Knowledge

	The successful candidate should have demonstrable knowledge of:	Essential/ Desirable	Tested by* A, I, P, T
12	Contemporary and emerging issues at the leading-edge of the subject domain.	Essential	A, I, P
13	Tools, technologies, approaches, and best practice in the subject domain.	Essential	A, I, P

Skills & Competencies

	The successful candidate should demonstrate:	Essential/ Desirable	Tested by* A, I, P, T
14	Ability to plan, prepare and deliver high quality teaching in pedagogy appropriate for	Essential	A, I, P

	the subject domain within modern Higher Education.		
15	Ability to communicate complex ideas clearly to a diverse range of students using a variety of teaching methods.	Essential	A, I, P
16	Ability to undertake advanced scholarship and high quality research in the subject domain.	Essential	A, I, P
17	Commitment to ongoing personal and professional development.	Essential	A, I
18	Commitment to development of the wider team and ability to work collaboratively with a diverse range of people to generate innovative and practical solutions to address complex challenges.	Essential	A, I
19	Quantifiable evidence of teaching excellence driving strong student outcomes.	Desirable	A, I
20	Experience of supervision and assessment of student projects in the subject domain.	Desirable	A, I
21	Experience of supervision, to successful completion, and examination of postgraduate research students undertaking individual research projects in the subject.	Desirable	A, I
22	Leadership of (or contribution to) research bidding activities and grant applications.	Desirable	A, I
23	Leadership of academic programmes at either undergraduate or postgraduate level.	Desirable	A, I
24	Leadership of (or active participation in) funded research programmes/activities.	Desirable	A, I
25	Holding of current professional certifications relevant to the specialist subject domain.	Desirable	A, I

A = Application form, I = Interview, P = Presentation, T = Test
