



Candidate Information

Position:	Lecturer/Senior Lecturer/Reader in Mechanical and Aerospace Engineering
School/Department:	School of Mechanical and Aerospace Engineering
Reference:	19/108034
Closing Date:	Monday 3 February 2020
Salary:	Lecturer £36,914 to £51,034 Senior Lecturer £52,560 to £60,905 Reader £59,135 to £64,604
Anticipated Interview Date:	Thursday 20 February 2020

Job Purpose

- 1.To undertake original and internationally recognised research in an area which will further strengthen and broaden the expertise in one or more of the research themes within the school: Simulation Technologies, Clean Energy, Composite Materials and Structures, Advanced Manufacturing and Processing, Future Aircraft and Biomaterials/Biomechanics.
- 2.To contribute to the School's undergraduate and postgraduate teaching programmes in areas as may be identified by the Head of School and Director of Education.

Research

- 1.Develop and lead original research which will attract competitive external funding commensurate with career stage.
- 2.Develop and contribute to the research strategies of the School and maintain a reputation as an expert in own subject area.
- 3.Present results of research work at conferences and regularly publish research in internationally recognised peer reviewed journals or conferences, commensurate with career stage.
- 4.Source and secure appropriate external funding through research applications and individual fellowships and, for Senior Lecturer and Reader grades, develop and lead larger, income-generating collaborative and interdisciplinary research projects, working in collaboration with other School staff, to ensure continued growth of the School's research profile.
- 5.Collaborate on original research with colleagues in other institutions
- 6.Attract and supervise post-graduate research students and post-doctoral researchers according to university regulations.
- 7.Lead an active team of post-graduate research students and post-doctoral researchers (Senior Lecturer/Reader) or demonstrate ability to engage and work with post-graduate or post-doctoral researchers (Lecturer)
- 8.Maintain an established programme of international research activity and dissemination of original research in high quality publications or other media, evidenced by relevant measures or esteem and peer reviews of research output and impact (Senior Lecturer/Reader)
- 9.Act as referee and contribute to peer assessment of research (Senior Lecturer/Reader).
- 10.Manage research activity and lead funding proposals (Senior Lecturer/Reader)

Teaching

- 1.Deliver teaching and assessment activities in identified areas, assigned by the Director of Education and approved by the Head of School. This will include formal lectures, tutorials, assignments, coursework, project supervision and general student monitoring at undergraduate and postgraduate level
- 2.Contribute to the development of new teaching delivery methods, including but not limited to new blended learning and research-led teaching methods, ensuring that course design and delivery comply with the appropriate benchmarks and regulations.
- 3.Undertake initiatives to improve the overall student experience, by new methods of assessment, feedback, and student engagement.
- 4.Contribute to curriculum development
- 5.Routinely communicate complex and conceptual ideas to students as well as to peers using high level skills and a range of media.
- 6.Contribute to the School's International Summer Schools.
- 7.Lead major elements of programme development, including new course structures and curricula (Senior Lecturer/Reader)
- 8.Manage major teaching administrative functions such as accreditation and quality enhancement (Senior Lecturer/Reader)
- 9.Act as internal and external examiner for undergraduate and postgraduate students and programmes (Senior Lecturer/Reader)

10. Assist in major teaching administrative functions such as accreditation and quality enhancement (Senior Lecturer/Reader)
11. May act as external examiner for undergraduate programmes or PhD theses (Senior Lecturer/Reader)

Citizenship

1. Be an active participant in up to two operations teams within the School set up to support the Head of School in meeting the School's objectives.
2. Provide pastoral care for students, as far as practicable, so that relevant issues are dealt with in a timely, sympathetic and effective manner.
3. To actively engage with and contribute to the School's internationalisation efforts with a view to attracting a significantly higher number of international students.
4. Contribute to the School's outreach strategy by designing or delivering community outreach programmes and developing external links.
5. Contribute, where appropriate, to the School's Executive Education Portfolio.
6. Contribute significantly to the development and running of the School/area by taking on appropriate School co-ordinating roles. Such duties may include, for example, Advisor of Studies, QAA Aspect Co-ordinator, Module/Year/Programme Co-ordinator or other recognised official University roles.
7. Support and mentor the careers of colleagues and students as appropriate, including Teaching Assistants, advising on their personal development and ensuring that they are meeting the standards required. (Senior Lecturer / Reader)
8. Develop and lead initiatives in administrative activities such as student recruitment, publicity, web pages. (Senior Lecturer / Reader)
9. To contribute creatively and constructively to leadership activities, which support the management of the School/Faculty/University e.g. by taking on appropriate roles such as Director of Education, Director of Research, Director of Internationalisation or other recognised official University roles (Senior Lecturer/Reader)
10. Contribute to the collegial work environment, behaving as a role model for others.

Essential Criteria

1. Honours Degree or Equivalent in Mechanical, Aerospace or related Engineering subject.
2. Hold a PhD in a relevant research field
3. Ability to advance the research and teaching goals of the School.
4. To strengthen the School's national and international research networks
5. Must demonstrate evidence of ability to communicate clearly and effectively to students, academic colleagues and to professional bodies and managers/executives.
6. Ability to provide effective leadership.
7. Evidence of good interpersonal skills and the ability to work both independently and as part of a team.

Lecturer

1. Minimum of 2 years postdoctoral research experience in relevant area (as outlined above).
2. Research interests that are sustainable and which complement or enhance existing activities within the school.
3. Record of high quality, relevant, research publications commensurate with stage of career
4. Relevant experience of tutoring and demonstrating at university level.
5. Evidence of appropriate administrative experience

Senior Lecturer/Reader

1. An outstanding academic research record
2. Track record of research publications of international standard with demonstrable impact on the research agenda commensurate with stage of career
3. Sustained record of obtaining research funding, commensurate to stage of career.
4. Min 3 years' demonstrable experience in teaching excellence (including delivery and assessment) at University undergraduate level.
5. Evidence of Co-ordination of modules and curriculum development.
6. Evidence of appropriate administrative and leadership experience at a strategic level

Desirable

Lecturer

1. Evidence of sourcing and securing funding from recognised funding bodies.

- 2.Relevant industrial experience or relevant experience of cooperative work with industry.
- 3.Evidence of development, delivery and assessment of undergraduate courses.

Senior Lecturer/Reader

- 1.Evidence of leadership in successful collaborative funding proposals
- 2.Programme leadership including management of major aspects of the teaching delivery.
- 3.Evidence of postgraduate level teaching and curriculum development.