

Candidate Information

Position:	Lecturer/Senior Lecturer/Reader Mechanical Engineering
School/Department:	School of Mechanical and Aerospace Engineering
Reference:	18/107042
Closing Date:	Tuesday 22 January 2019
Salary:	Lect: £36,261 - £50,132 per annum (potential to progress to £53,175 per annum through sustained exceptional contribution) SL/Read: £51,630 - £59,828 per annum (potential to progress to £65,361 per annum through sustained exceptional contribution)

JOB PURPOSE:

- To undertake original and internationally recognised research in an area related to control systems and industrial automation.
- To contribute to the School's undergraduate and postgraduate teaching programmes in areas encompassing aspects of mechanics of machines, mechanical engineering design, and as may be identified by the Head of School and Director of Education.

MAIN ACTIVITIES/RESPONSIBILITIES:

1. Research

- Develop and lead original research which will attract competitive external funding.
- Present results of research work at conferences and publish results in high quality academic journals.
- Source and secure external funding from relevant funding bodies, in collaboration with other School staff, to ensure continued growth of the School's research profile.
- Collaborate on original research with colleagues in other institutions.
- Supervise research students according to university regulations.
- Develop and contribute to the research strategies of the School and maintain a reputation as an expert in own subject area.
- Direct, coach and develop research staff, where appropriate.
- Ensure that research projects are completed on time and within budget.

Senior Lecturer/Reader

- Act as referee and contribute to peer assessment of research.
- Manage research activity and lead funding proposals.
- Develop and maintain a high level international research profile.

2. Teaching

- Deliver teaching and assessment activities in identified areas, assigned by the Director of Education or head of School. This will include formal lectures, tutorials, assignments, coursework, project supervision and general student monitoring at undergraduate and postgraduate level.
- Provide constructive feedback to students. Seek ways of improving performance by reflecting on teaching methods and obtaining and analysing feedback.
- Contribute to the design and revision of course units.
- Contribute to curriculum development.
- Routinely communicate complex and conceptual ideas to students as well as to peers using high level skills and a range of media.
- Contribute to the enhancement of quality teaching within the School, ensuring that course design and delivery comply with the appropriate benchmarks and regulations.

Senior Lecturer/Reader

- Develop and advise others on learning and teaching tasks and methods.
- Act as internal and external examiner for undergraduate and postgraduate students and programmes.
- Lead major elements of programme development, including new courses and curricula.

- Assist in major teaching administrative functions such as accreditation and quality enhancement.
- May act as external examiner for undergraduate programmes or PhD theses.

3. Administration/Contribution to Community

- Be an active participant in up to two administrative teams within the School set up to support the Head of School in meeting the School's objectives.
- Provide pastoral care for students within own area to ensure, as far as practicable, that relevant issues are dealt with in a timely, sympathetic and effective manner.
- May sit on major University committees.
- Contribute to the School's outreach strategy by designing or delivering community outreach programmes and developing external links.
- 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, Module Co-ordinator, Programme Director, or other recognised official University roles

Senior Lecturer/Reader

- Act as mentor or appraiser to colleagues, including Teaching Assistants, advising on their personal development and ensuring that they are meeting the standards required.
- Develop and lead initiatives in administrative activities such as student recruitment, publicity and on-line presence/representation.

PLANNING AND ORGANISING:

- Plan and set teaching and research objectives over a number of years.
- Plan and manage own teaching and tutorials.
- Prepare research proposals for submission to external funding.

Senior Lecturer/Reader

- Be involved in strategic planning for the School and contribute to the University's strategic planning process.
- Plan and deliver research, teaching and consultancy or similar programmes and ensure that resources are available.
- Contribute to the management of quality, audit and other external assessments.

RESOURCE MANAGEMENT RESPONSIBILITIES

- Provide academic leadership to those working within programme areas, as course leader or equivalent, by for example co-ordinating the work of others to ensure that courses are delivered effectively or organising the work of a team by agreeing objectives and work plans.
- Develop and manage staff and resources, in support of major research, teaching and administrative activities.

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- Contribute to the overall management of the School, as may be required by the Head of School.

INTERNAL AND EXTERNAL RELATIONSHIPS:

- Lead and develop internal networks for example by participating in University committees.
- Lead and develop links with external networks, for example, with external examiners and assessors.
- Develop links with external contacts such as other educational bodies, industry, and professional bodies to foster collaboration.

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- Seek membership of national/international/EU committees.
- Develop national/international consortia for large-scale EU (or similar) grant applications.

ESSENTIAL CRITERIA

At all Levels

- Honours Degree or Equivalent in Mechanical Engineering, or related subject.
- Hold a PhD in a relevant research field.
- Ability to advance the research and teaching goals of the School.
- To strengthen the School's national and international research networks
- Must demonstrate evidence of ability to communicate clearly and effectively to students, academic colleagues and to professional bodies and managers/executives.
- Ability to provide effective leadership.

- Evidence of good interpersonal skills and the ability to work both independently and as part of a team.

At Lecturer Level

- Minimum of 2 years postdoctoral research experience in control systems/engineering and/or industrial automation.
- Research interests that are sustainable and which complement or enhance existing activities within the school.
- Record of high quality, relevant, research publications commensurate with stage of career.
- Relevant experience of tutoring and demonstrating at university level.
- Evidence of appropriate administrative experience

At Senior Lecturer/Reader Level

- An outstanding academic research record
- Track record of research publications of international standard
- Sustained record of obtaining research funding, commensurate to stage of career.
- Min 3 years experience of teaching (including delivery and assessment) at University undergraduate level
- Evidence of Co-ordination of modules and curriculum development.
- Evidence of appropriate administrative and leadership experience at a strategic level

DESIRABLE CRITERIA

At Lecturer Level

- Evidence of sourcing and securing funding from recognised funding bodies.
- Relevant industrial experience or relevant experience of cooperative work with industry.
- Evidence of development, delivery and assessment of undergraduate courses.

At Senior Lecturer/Reader Level

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