

Lecturer / Senior Lecturer / Reader Engineering Design

Department	Design, Manufacture and Engineering Management (www.strath.ac.uk/engineering/designmanufactureengineeringmanagement/)		
Faculty	Faculty of Engineering (www.strath.ac.uk/engineering/)		
Staff Category	Academic	Reference No	488108
Reports To	Head of Department	Grade:	*From Lecturer (Grade 7) to Reader (Grade 10), depending on experience
Salary Range:	£39,592 - £68,892*	Contract Type:	Open Contract
FTE:	1 FTE	Closing Date	Sunday, 14 May 2023
Holidays	31 days + 11 statutory days Option to purchase additional holidays	On Site Facilities	Car parking, sports centre, catering
Pensions	Contributory pension scheme available to all staff including generous employer contribution.		
Training	Professional Development with Organisational and Staff Development Unit (OSDU) plus external training if required		
Family Friendly Benefits	Generous parental leave provision, on-campus nursery and options for flexible working		
Health and Wellbeing	University Sport centre, Occupational Health service, access to health and wellbeing events, cycle to work scheme, Employee Assistance Programme, agile working and established carers support network and carer friendly policies		

Job Advert

The Department of Design, Manufacturing and Engineering Management (DMEM) is seeking to appoint a Lecturer/Senior Lecturer/Reader in Engineering Design. The Lecturer/Senior Lecturer/Reader position equates to a tenured Assistant/Associate Professorship position. This post is part of a wider recruitment strategy.

The Department of Design, Manufacturing and Engineering Management (DMEM) provides a unique offering combining end-to-end multidisciplinary expertise from creative design, through to engineering design, manufacturing and management of the entire system. DMEM also houses the UK's Advanced Forming Research Centre (AFRC), which is located off-campus at a dedicated site just outside Glasgow and is part of the UK's High Value Manufacturing Catapult and the National Manufacturing Institute Scotland (NMIS). We are proud of our substantial and well-established collaborations with academic and industrial partners throughout the world. With more than 150 staff including the technical specialist centres, more than 100 Postgraduate Research (PGR) students both PhD and EngD, and more than 650 students from over 30 nations, we are a vibrant, international community.

Are you passionate about working on global challenge and societal transitions, including sustainability, health, food systems, manufacturing systems? And are you thriving on theory-driven and empirically-validated research excellence, learning and

teaching with and for engineering leaders of the future? We'd love to hear from you. To support these ambitious plans, we are seeking new talent to join our expanding team.

DMEM has a strong team of academics working across the field of design, ranging from industrial to engineering design and all aspects of design development. Engineering Design is a core discipline in DMEM for which the Department is internationally renowned for its world-class research and teaching. The vacancy currently being advertised aims to complement existing expertise with visionary academics that focus on Engineering Design including specialisations such as, but not limited to: (1) mechanics, analysis, modelling and simulation, experimentation and computation, computer-based design systems (CAD/CAM/Digital design engineering), (2) design process methodology, design methods and tools, (3) control, instrumentation, mechatronics, and robotics, or (4) data science for design and engineering science.

As part of the University of Strathclyde, our vision is to be bold and ground breaking, placing us amongst the world's leading international technological universities. We are vibrant, dynamic and passionate about solving the challenges facing society and industry through our cutting-edge, multi-disciplinary research, education and knowledge-exchange with global partners.

To be considered for the role you will be educated to PhD level in a relevant discipline and have significant relevant experience in addition to a relevant degree. You will have sound engineering design knowledge and proven ability to collaborate well with colleagues and industry, understanding and meeting its needs and promoting innovation. You will have a body of published research in high quality publications, demonstrating standards of excellence and an ability to secure research funding, including experience of contributing to grant applications. You will have relevant teaching experience at undergraduate and/or postgraduate levels and an ability to work within an academic team environment and lead teams where required. You will have excellent interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences.

*Appointments will be made at a level appropriate to a successful candidate's experience and career stage, and duties and salary will be adjusted accordingly. Further information on individual salary scales for each position can be found [here](#).

In addition to the position described here, the [Global Talent Programme](#) makes clear the University's commitment to attracting world leading academics to Scotland. The University is also committed to developing the next generation of leaders, nurturing talented individuals through the early stages of their career and providing the opportunities for professional rewards and 'making a difference'.

Job Description

Brief Outline of Job:

For Lecturer: Engage in individual and collaborative research to pursue and establish an independent and high-quality research programme; to design and deliver a range of teaching materials and undertake student assessment activities; to engage in relevant professional and knowledge exchange activities; to collaborate with industry and policy makers on understanding the emerging issues for Engineering Design; and to carry out administrative tasks, also called citizenship tasks, assigned by the Head of Department.

For Senior Lecturer/Reader: To lead a research programme of national/international excellence; to lead the design, development and delivery of a range of teaching programmes and undertake student assessment activities; to lead relevant professional and knowledge exchange activities; to collaborate with industry and policy makers on understanding the emerging issues for Engineering Design; and to carry out senior administrative tasks, also called citizenship tasks, assigned by the Head of Department.

Main Activities/Responsibilities:

1.	Develop, grow and establish an independent area of funded research in Engineering Design. Engage in individual and collaborative research relating to Engineering Design including specialisations such as, but not limited to: (1) mechanics, analysis, modelling and simulation, experimentation and computation, computer-based design systems (CAD/CAM/Digital design engineering), (2) design process methodology, design methods and tools, (3) control, instrumentation, mechatronics, and robotics, or (4) data science for design and engineering science, establishing a distinctive and independent programme of research and disseminating results through appropriate means, e.g. regular publications in high impact journals, books and conference proceedings.
2.	Seek and secure funding opportunities from both UK and international sources as Principal- or Co-Investigator for research relevant to the Faculty and Department research strategy in general and to the Engineering Design area in particular. Secure appropriate research grant funding and attract income through knowledge exchange activities, overseeing the successful delivery of projects awarded.
3.	Publish research outputs through the leading international journals and contribute to the Department's high profile and REF performance in this area. Present research at appropriate international conferences as well as participate in national and international research policy organisations.
4.	Supervise research students and staff as required, providing direction, support and guidance.

4.	Design and deliver (Lecturer) or lead and manage the design, development and delivery (Senior Lecturer/Reader) of a range of teaching materials at undergraduate and postgraduate levels, including contribution to curriculum review and enhancement, in a manner that supports a research-led approach to student learning.
5.	Undertake student assessment and examination activities, including the provision of appropriate feedback to students.
6.	Develop (Lecturer) or lead (Senior Lecturer/Reader) a portfolio of knowledge exchange activity in Engineering Design in collaboration with non-academic stakeholders, including building and maintaining a network of stakeholder contacts. Promote knowledge transfer of research in Engineering Design that has the potential to provide impact.
7.	Carry out Department/School, Faculty and/or University administrative and management functions, for example through membership of committees and/or by acting as class/module/year co-ordinator.
8	Undertake an appropriate range of citizenship activities within the Department, Faculty and University. Collaborate with members of the Department and across the University as appropriate to enhance the University's reputation in related research. Participate in Faculty/University wide initiatives.
9	Promote the University's internationalisation agenda and University's international reputation.
10	Engage in continuous professional development.

Person Specification

Educational and/or Professional Qualifications

(E=Essential, i.e. a candidate must meet all essential criteria to be considered for selection, D=Desirable)

E1 Good honours degree and PhD (or equivalent) in Engineering Design, or another relevant discipline

D1 Membership of relevant Chartered/professional bodies (e.g. also the Higher Education Academy)

Experience

E2 Relevant experience and expertise in Engineering Design

E3 A sustained track record of published research in high quality publications demonstrating standards of excellence and a growing national reputation

E4 Experience of successfully teaching, tutoring and demonstrating at undergraduate and/or postgraduate level (Lecturer), including experience of developing and managing large teaching programmes (Senior Lecturer/Reader)

D2 Experience of supervising researchers and students in a University or industrial environment and experience of managing research teams/projects/programmes.

D3 Experience of working with industry, developing knowledge exchange relationships.

Job Related Skills and Achievements

E5 An ability to generate original Research questions in the field of Engineering Design and to develop a successful portfolio of research and knowledge exchange activity in Engineering Design (Lecturer).
A body of published research in high quality publications in Engineering Design (Senior Lecturer/Reader), demonstrating standards of excellence.

E6 An ability to secure research funding through relevant successful research grant applications (Lecturer). Track record of securing research funding and managing research projects (Senior Lecturer/Reader)

E7 Ability to teach (Lecturer) Track record of teaching Engineering Design subjects to a high standard reflective of the Department's commitment to teaching excellence

E8 Ability to play a senior role within an academic team environment and motivate and manage staff, with experience of leading teams of less experienced staff and research students

E9 **Reader Level Only** Evidence of a profile as an externally recognised authority with an established national and emerging international reputation

D4 Proven staff, budget and project management skills

D5 Track record in knowledge exchange related activities

Personal Attributes

E10 Demonstrable ability to work well within a multi-disciplinary team with the aptitude to interact well and collaborate with colleagues from across the core DMEM disciplines (Design, Manufacturing and Engineering Management).

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- E11 Flexibility in responding to the future needs of the Department, Faculty and University initiatives.
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- E12 Excellent interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences
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- E13 Ability to operate as part of a team and as an individual to work effectively towards department goals.
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- E14 The ability to contribute to strategic departmental management
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- E15 A desire to collaborate with colleagues across the Centre/Department/Faculty/University thus strengthening and expanding the research portfolio.
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Application Procedure

Applicants are required to complete an application form including the name of three referees who will be contacted without further permission, unless you indicate you would prefer otherwise. Applicants should also submit a Curriculum Vitae and a covering letter detailing the knowledge, skills and experience you think make you the right candidate for the job as well as a Research Plan outlining your research strategy for the next 5 years. Applicants should also complete the Equal Opportunities Monitoring Form.

Please also indicate within your covering letter which position you feel is the best fit for your skills and experience and for which you wish to be considered.

Other Information

Further information on the application process and working at Strathclyde can be found on our website (<http://www.strath.ac.uk/hr/workforus>). Further information on the Department can be found here: www.dmem.strath.ac.uk.

Informal enquiries about the post can be directed to Professor Anja Maier, Head of Department (0141 548 3005/anja.maier@strath.ac.uk).

Conditions of Employment

Conditions of employment relating to Academic Staff can be found here: [Conditions of Employment](#).

Rewards and Benefits

Our staff have access to a wide range of outstanding benefits that include financial rewards, family friendly and wellbeing benefits and career development opportunities, details of which can be found [here](#).

Basic Disclosure

This role requires the satisfactory outcome of a Basic Disclosure Scotland Check. The successful applicant will be asked to carry out a Basic Disclosure Scotland Check. Whether an outcome is satisfactory will be determined by the University.

Pre-employment health screening

An offer of appointment will be subject to a medical assessment by Occupational Health. An individual who accepts an offer of employment must complete a confidential medical questionnaire and forward it to the Occupational Health Nurse within 5 days of receipt. If further information is required the individual may be contacted by the OHN or a Medical Advisor and a personal appointment with the individual may be arranged. An unconditional contract of employment will not be issued until Human Resources receives confirmation that applicant is fit to undertake the duties of the post.

Probation

Where applicable, the successful applicant will be required to serve a 12 month probationary period.

Pension

The successful applicant will be eligible to join the Universities' Superannuation Scheme. Further information regarding this scheme is available from [Payroll and Pensions](#).

Relocation

Where applicable, the University offers a relocation package to support new employees who meet the eligibility criteria. The relocation package is offered as a contribution towards costs incurred, and is designed to be flexible, allowing staff to use the financial support available in the way that will be most helpful to them. Further details are outlined in the Relocation Policy.

Interviews

Formal interviews for this post will be held as early as possible after application closing date.

Equality and Diversity

The University of Strathclyde is a socially progressive institution that strives to ensure equality of opportunity and celebrates the diversity of its student and staff community. Strathclyde is people-oriented and collaborative, offering a supportive and flexible working culture with a deep commitment to our equality, diversity and inclusion charters, initiatives, groups and networks.

We strongly encourage applications from Black, Asian and minority ethnicity, women, LGBT+, and disabled candidates and candidates from lower socio-economic groups and care-experienced backgrounds.

University Values

The University's Values capture what we're all about: who we are, what we believe in and what we stand for. [Our Values](#) have been derived from how we act and how we expect to be treated as part of Strathclyde.

