

# Senior Lecturer/Reader in Supply Chain Engineering Management

Department	Design, Manufacture and Engineering Management ( <a href="http://www.strath.ac.uk/engineering/designmanufactureengineeringmanagement/">www.strath.ac.uk/engineering/designmanufactureengineeringmanagement/</a> )		
Faculty	Faculty of Engineering ( <a href="http://www.strath.ac.uk/engineering/">www.strath.ac.uk/engineering/</a> )		
Staff Category	Academic	Reference No	552109
Reports To	Head of Department, Prof. Anja Maier	Grade:	9/10
Salary Range:	Grade 9 £57696 - £64914 Grade 10 £66857 - £70918 (annual increments payable subject to eligibility criteria)	Contract Type:	Open Contract
FTE:	1	Closing Date	Thursday, 18 January 2024
Holidays	31 days + 11 public holidays Option to purchase additional annual leave	On Site Facilities	Car parking, sports centre, catering
Pension	Contributory pension scheme available to all staff including generous employer contribution		
Training	Professional development with Organisational Staff Development Unit plus external training where required		
Family-Friendly Benefits	Generous parental leave provisions, on-campus nursery, and options for flexible working		
Health and Wellbeing	University sports 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 an internationally leading department, *Delivering Total Engineering* for responsible and sustainable futures. In the UK, a Senior Lecturer is tenured and at Associate Professorship level. We seek to appoint a Senior Lecturer or Reader in Supply Chain Engineering Management. In the UK, a Reader position is tenured and at next level following an Associate Professorship, equivalent to a promoted Professorship as it is, for example, termed in Sweden. This post is envisaged to start as soon as possible and is part of a wider talent and thought leader recruitment strategy.

We are looking for who thrive on theory-driven and empirically-validated research excellence, learning and teaching with and for engineering leaders of the future. In addition to research and teaching, there are also opportunities for career progression through industrial engagement / knowledge exchange tracks. To support these ambitious plans, we are seeking new talent to join our expanding team.

Are you passionate about working on global challenge and societal transitions, including sustainability, healthcare, food systems, or 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 with research interests especially in digitalisation of production- and service systems, smart, circular, and green supply chain management, understanding and

management of complex engineering projects, e.g. in manufacturing, in healthcare, or in the industrial ecology more widely. Come with your expertise and you will be given the space to develop and grow.

DMEM brings together expertise in creative- and engineering design, manufacturing and engineering operations management. Our research centres and groups focus on through-life product- and system development, with core research themes being creativity and innovation, materials exploration, sustainability and technology. 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. Come join, collaborate, innovate, and lead. We are part of the Faculty of Engineering in the University of Strathclyde, our vision is bold and ground breaking, placing us amongst the world's leading international technological universities. The University is situated in the heart of Glasgow, with an international community including 22,000 students and more than 3,000 staff from 100 countries. Strathclyde is 'the place of useful learning' and is recognised internationally for its close working relationships with businesses and its partnerships with industry, government and industry. 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.

The Department has a strong international reputation for research and teaching, and is one of the premier departments in the UK. Our significant partnerships with industry, national and international academic partner institutions, and a variety of global research agencies, and governmental agencies ensure the industrial applicability of our courses and our research outputs, and enable us to provide our students with state-of-the-art teaching and learning facilities. The Department currently utilises its own teaching and workshop facilities along with those provided by other Departments in the Faculty of Engineering and the University as a whole. DMEM students have access to a wide variety of design and (additive) manufacturing equipment in our multiple workshops and labs, e.g. the DMEM's Digital Design and Manufacturing Studio (DDMS).

Across the street and green space from the James Weir building where our Department's facilities are housed, the University has most recently opened a £60 million state of the art Learning & Teaching hub, aimed at furthering our research and technology programmes. We emphasise through-life learning and offer multiple programmes, including Graduate Apprenticeships, Undergraduate, Postgraduate Taught, Distance Learning, Continuous Professional Development, and executive programmes comprised of modules across the themes of Design, Manufacturing and Engineering Management. DMEM have an attractive portfolio of courses in engineering design, manufacturing and engineering management Engineering management is at the core of the Department's current educational offerings across 4 Undergraduate (UG) and 14 Postgraduate Taught (PGT) and to-date >10 Continuous Professional Development (CPD) programmes. This includes Engineering Project Management, Manufacturing Engineering with Management, Engineering Management for Process Excellence, Digital Manufacturing, Supply Chain & Sustainability Management, Systems Engineering Management, Mechatronics and Automation, Product Design Engineering, Product Design Innovation, Technology and Innovation Management, Systems Thinking, People, Organisation and Leadership, Strategic Technology Selection for Digital Transformation, Lean Six Sigma, or Advanced Project Management). We are the only Department in the UK with its UG programmes accredited by three professional institutions: the Institution of Engineering Designers (IED), the Institution of Engineering and Technology (IET), and the Institution of Mechanical Engineers (IMechE). For details on the programmes, see 'Study with Us' at <http://www.dmem.strath.ac.uk>.

Over recent years, Strathclyde in general and DMEM in particular has positioned itself well to deliver across these areas with collaborative teams across the University incorporating resources and expertise from Business, Humanities and Social Sciences, Science and Engineering faculties. This capability is exemplified through cross-department and cross-faculty initiatives such as Strathclyde's Institute of Operations Management (SIOM), a joint initiative between the Department of Design, Manufacturing and Engineering Management (DMEM) from the Faculty of Engineering and the Strathclyde Business School, the EPSRC Centre for Continuous Manufacturing and Crystallisation (CMAC), the Scottish Institute for Remanufacturing (SIR), and the Advanced Forming Research Centre (AFRC), with opportunities to collaborate with and support the National Manufacturing Institute Scotland (NMIS), Glasgow City Innovation District (GCID), the Advanced Manufacturing Innovation District Scotland (AMIDS), and wider strategic engagements such as with the Ayrshire Regional Deal and the Rosyth Innovation Park. The successful candidate is keen to build on these platforms for further new initiatives and research excellence. Major opportunities also include links with Health & Care Futures / Medicines Manufacturing Innovation Centre, large infrastructure investments Scotland and the UK, public-public-private large partnerships for the Global Goals (Goal 17) zero emission mobility innovations.

The position is aimed at research leaders who have a technical background, e.g. in operations and production engineering or related disciplines bridging to business and social sciences. Engineering Management is a core area and one of the three main pillars that DMEM is founded on and critical to it being a unique Department in the UK with a rising number of students registering for associated programmes. Engineering management forms the interconnections for complex systems through life development support, from design, through production, to re-manufacturing or disposal, and crucially, facilitates detailed operations to higher level strategic management. Engineering supply chain management expertise plays a vital role across the Department's key activities of research, teaching and knowledge exchange. For example, resilient supply chains is an area highlighted as top priority in the recent Innovate UK's Materials and Manufacturing Vision 2050, the recent report on Horizon

Europe's coming emphasis also on solutions for a resilient EU raw materials supply chain as well as food systems security, and the open EPSRC funding opportunity on Modelling UK supply chains as complex systems for resilience to name a few of the many funding opportunities currently open and counting, with major synergy effects to building strong consortia across the University and its industry-facing centres, industrial- governmental- and academic partners locally, nationally, and across the globe.

The post aligns well with the growth ambitions within the strategic plans as defined by the University, Faculty and the Department for Vision2025 and coming Vision2030. In particular, enabling the growth and expansion of funded research and Knowledge Exchange (KE) projects in the priority University related theme of Advanced Materials and Manufacturing, with a focus on supply chains as complex systems, engineering operations management, and business and industry engagement. Importantly, with renewed emphasis on building a high value manufacturing base in the UK, the UK and Scottish Governments have placed significant emphasis on the funding of research and knowledge exchange activities in this area as well as sustainability and environmental considerations. Engineering management acts as a bridge between business development and delivery of manufacturing operations. Its significant role in multidisciplinary large research and KE programmes within the manufacturing sector is evident in the currently funded programmes, current calls and the calls that are being planned for the future. Examples include EPSRC's/Innovate UK Manufacturing the future (and associated calls and Manufacturing and Materials Vision 2050 and EPSRC's impetus to attract Manufacturing Fellowships that places emphasis on engineering management and organisation configuration issues such as value chain deployment, resilient supply chain management, rapid and lean production processes, decision-making under uncertainty, new business models to utilise flexible manufacturing concepts, and circular strategies and life cycle analysis to incorporate sustainability by design. The government highlights that UK manufacturing contributes £148b GVA and employs over 2.6m people, with many suppliers now coming from overseas. There is a need for "reshoring" and developing the UK manufacturing supply chain with an estimated £30b opportunity that could be realised with commensurate job opportunities.

Successful candidates will have a good honours degree and PhD in an engineering management related discipline. You will have research experience and interests consistent with the strategic direction of the Department, Faculty and University and you will have experience of research leadership, including support of senior researchers in a University or industrial environment and management of research teams/projects/programmes. You will support early and mid-career academic staff within the research team, helping to ensure they reach their full potential. You will have extensive experience of delivering high quality teaching to undergraduate and postgraduate students including experience of developing and managing large teaching programmes and you will have experience of PhD/EngD research project supervision in Higher Education. You will have an outstanding/sustained track record of published research in high quality publications demonstrating standards of excellence, with an international reputation. You will have an outstanding/substantial track record of securing research funding through relevant successful collaborative research grant applications and you will have an established national/international reputation as an expert and leader within Supply Chain Engineering Management. You will be an excellent educator and mentor and will show leadership in identifying key research questions and attracting funding support. You will have excellent interpersonal and communication skills, strong people skills and an ability to operate as part of a team.

## Job Description

### Brief Outline of Job:

To lead a research programme of national and international excellence in supply chain engineering management cognisant of the interfaces to the research disciplines design and manufacturing; to lead the design, development and delivery of a range of teaching programmes and undertake student assessment activities; to collaborate with industry and policy makers on understanding the emerging issues for Engineering Management, i.e. to lead professional and knowledge exchange activities; and to carry out senior administrative tasks assigned by the Head of Department.

### Main Activities/Responsibilities:

1.	Lead individual and collaborative research activities, building on an established and distinctive programme of research and disseminating results through regular and sustained publications in high impact journals, books and conference proceedings.
2.	Lead and secure, as Principal Investigator (PI) or Co-Investigator (Co-I), substantial research grant funding, attract income through knowledge exchange activities., and manage grants awarded.
3.	Lead research of international excellence in supply chain engineering management, including the organising of significant resources and activities, providing leadership, support and guidance to research staff, students, and academic colleagues as appropriate.
4.	Lead and manage the design, development and delivery of a range of DMEM's teaching programmes at undergraduate and postgraduate levels, including leading curriculum review and enhancement activities, course development, management, and teaching of appropriate courses and project supervision in a manner that supports a research-led approach to student learning.

5.	Design and manage processes in relation to student assessment, examination and feedback activities, playing a lead role in the development of educational strategy and operational standards, including accreditation.
6.	Provide research supervision to postgraduate students and research assistants in the Department.
7.	Lead the development of knowledge exchange activities by, for example, establishing research and/or educational links with industry and influencing public policy and the professions.
8.	Carry out Department, Faculty and/or University senior administrative and management functions, for example by convening or participating in relevant committees.
9.	Undertake an appropriate range of citizenship activities within the Department, Faculty and University.
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 in appropriate discipline, including but not limited to operations and supply chain management, production and operations management, manufacturing processes or equivalent, engineering and/or engineering project management

D1 Membership of relevant Chartered/professional bodies (including the Higher Education Academy)

### Experience

E2 Substantial relevant research in engineering manufacturing supply chain management and application.

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

E4 Teaching experience at undergraduate and postgraduate levels, including experience of developing and managing large teaching programmes

D2 Experience in working with industry

### Job Related Skills and Achievements

E5 Research leadership, including supervision of researchers in a University or industrial environment and management of research teams/projects/programmes

E6 An appropriate track record of securing research funding and managing research projects

E7 An appropriate track record of published research in high quality journals demonstrating standards of excellence and an appropriate research reputation.

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 Evidence of a profile as an externally recognised authority with an established national and emerging international reputation

D3 Proven staff, budget and project management skills

D4 Track record in knowledge exchange related activities

### Personal Attributes

E10 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

E11 Flexibility in responding to the future needs of the Department, Faculty and University initiatives.

## 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.

## 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>).

Informal enquiries about the post can be directed to Professor Anja Maier, Head of Department ([anja.maier@strath.ac.uk](mailto: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 in January/February 2024.

### 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.

