

THE UNIVERSITY OF MANCHESTER

PARTICULARS OF APPOINTMENT

FACULTY OF SCIENCE & ENGINEERING

SCHOOL OF ENGINEERING

DEPARTMENT OF MECHANICAL, AERONAUTICAL, AND CIVIL ENGINEERING

LECTURER (G7) OR SENIOR LECTURER (G8) IN ENGINEERING

DESIGN FOR SUSTAINABILITY

VACANCY REF: SAE-022493

Salary:	Grade 7 £44,414 to £54,421 or Grade 8 £56,048 to £66,890 per annum, depending on relevant experience
Hours:	1 FTE
Duration:	Permanent
Location:	Oxford Road, Manchester

Enquiries about the vacancy, shortlisting and interviews:

Name: Paul Mativenga

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The Lecturer/Senior Lecturer will join our diverse community within the School of Engineering in the Faculty of Science and Engineering at the University of Manchester. This is part of a major initiative to consolidate and strengthen research and teaching activities in Engineering Design within our School of Engineering. We are seeking applicants with a particular focus on sustainability. Applicants should be able to teach engineering design and manufacture on Mechanical Engineering degree programmes.

The academic will be based in the new Manchester Engineering Campus Development, Engineering Buildings. Unrivalled in scale in the UK as a hub of engineering and material science expertise, it combines Manchester's heritage as the birthplace of the industrial revolution with new purpose-built facilities that will deliver a step-change in our ways of working and approach to solving some of the world's most pressing challenges and to engineer the future. The building has world class lab spaces, new lecture theatres, bookable meeting and teaching rooms and an extensive range of informal study spaces with both PCs and touchdown spaces for own device and dynamic new maker space, where students can let their creativity and entrepreneurial ideas run free.

The teaching roles will be based in the School of Engineering, supporting the Mechanical and Aerospace Engineering Degree programmes and other programmes across the School. We are committed to equality, diversity, inclusion and access and this is externally validated for example by our Athena SWAN and Race Charter mark awards for promoting gender equality and diversity throughout the School and race equality throughout the University respectively.

The University of Manchester was created in 2004 by bringing together The Victoria University of Manchester and UMIST, two of Britain's most distinguished universities, to create a powerful new force in British Higher Education. The predecessor universities can trace their origin to 1824. The University of Manchester provides an exciting environment for teaching and learning with a city centre campus alive with student activity day and night.

The vision for the University of Manchester is to be one of the finest universities in the world. The University is one of the largest in the UK and has teaching and research in more subjects than any other single-site British University. Students benefit from unrivalled facilities while staff benefit from a centre for research excellence.

Faculty of Science and Engineering

The Faculty of Science and Engineering is large, comprehensive, and composed of the School of Engineering and School of Natural Sciences. The School of Engineering is currently composed of Departments of Chemical Engineering; Engineering for Sustainability; Engineering Management; Fluids and Environment; Solids and Structures; Electrical & Electronic Engineering; and Computer Science. The School of Natural Sciences is home to Departments of Chemistry; Earth and Environment Sciences; Materials; Mathematics; and Physics & Astronomy. Interdisciplinary research is supported by research institutes including the Manchester Institute for Biotechnology (MIB), Thomas Ashton Institute for Risk and Regulatory Research, Dalton Nuclear Institute, Photon Science Institute, Manchester Environmental Research Institute, BP International Centre for Advanced Materials (BP-ICAM), The University of Manchester at Harwell, the national, and the Engineering & Physical Sciences Research Council funded Henry Royce Institute for Advanced Materials. These link into the University Research Beacons and Research Platforms (Sustainable Futures, Policy@Manchester, Digital Futures and Creative Manchester). Our research platforms provide focus and resource to connect, drive and amplify interdisciplinary collaborations between academics, Faculties and institutes.

Many of the major advances of the 20th century began in this Faculty, including the work by Rutherford leading to the splitting of the atom and the development of the world's first modern computer. Today, research activities remain at the cutting-edge and the Faculty now generates more than a third of the total research income for the University.

Person Specification

Key Responsibilities, Accountability and Duties

- Delivering teaching in the area of mechanical engineering design and manufacturing in the School of engineering and in particular for mechanical engineering.
- Growing research activities around engineering design for sustainability, circularity and net zero.
- Generating significant research funding from research councils, industry and other sources;

- Publishing in reputable journals and presenting at international conferences;
- Enabling and realising pathways to impact and external engagement with research.
- Supervising postgraduate students;
- Attending relevant research and teaching committees in the School and the University;
- Participating as full member of the School and the wider Faculty in activities, meetings, events, Open Days, etc.
- Supporting the Head of School and Head of Department in the leadership by undertaking teaching and delegated responsibilities and other duties.
- Promoting equality, diversity, inclusion and access.

Essential Criteria - Lecturer

- Educated to PhD level or equivalent in mechanical engineering or manufacturing engineering;
- Able to demonstrate an inspiring vision for research and in-depth knowledge in the field of engineering design and manufacture with particular focus on sustainability and circular economy.
- An emergent record of output of high-quality, peer-reviewed research publications or other equivalent recognised forms of research output appropriate to the discipline
- Ability to develop research proposals and income stream that is sufficient to support a research group and portfolio.
- Ability to deliver high quality teaching, learning, assessment and feedback in mechanical engineering design and manufacture to undergraduate and postgraduate students;
- An inclusive and supportive academic leader who is going to champion equality, diversity, inclusion and access;
- Commitment to and understanding of what it means to conduct academic activities in a low-carbon manner.
- Evidence of excellent communication skills.

Essential Criteria – Senior Lecturer

- Educated to PhD level or equivalent in mechanical engineering or manufacturing engineering;
- Able to demonstrate an inspiring vision for research and in-depth knowledge in the field of engineering design and manufacture with particular focus on sustainability and circular economy.
- An established record and continuing trajectory of output of high-quality, peer-reviewed research publications or other equivalent recognised forms of research output appropriate to the discipline
- A record of success in obtaining external research funding and ability to develop research proposals and income stream that is sufficient to support a research group and portfolio.
- Ability to deliver high quality teaching, learning, assessment and feedback in mechanical engineering design and manufacture to undergraduate and postgraduate students;
- An inclusive and supportive academic leader who is going to champion equality, diversity, inclusion and access;
- Commitment to and understanding of what it means to conduct academic activities in a low-carbon manner.
- Evidence of excellent communication skills.