THE UNIVERSITY OF MANCHESTER

PARTICULARS OF APPOINTMENT

FACULTY OF SCIENCE & ENGINEERING

SCHOOL OF ENGINEERING

DEPARTMENT OF MECHANICAL, AEROSPACE AND CIVIL ENGINEERING

LECTURER IN ROBOT ASSISTED MANUFACTURING

VACANCY REF: SAE-027255

Salary:	Grade 7 £46,485 - £56,921 per annum, depending on relevant experience
Hours:	1 FTE
Duration:	Permanent
Location:	Oxford Road, Manchester

Enquiries about the vacancy, shortlisting and interviews:
Name: Professor Charlie Wang
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Or
Name: Professor Paul Mativenga
Email: P.Mativenga@manchester.ac.uk

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; Mechanical and Aerospace Engineering, Civil Engineering and Management; 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

- Securing funding from research councils and other relevant sources such as industry and non-government bodies to support research activity and researchers.
- Development and delivery of internationally excellent research in the area of robotics in manufacturing.
- Enabling and realising pathways to impact and external engagement with research.
- Supervision of postgraduate research students and researchers.
- Publication of research in leading journals and presentation at international conferences and in other fora relevant to stakeholders and end-users of the research.
- Undertaking teaching duties (including but not limited to assessment, academic advising and project supervision) within the University on undergraduate and postgraduate courses. This may include topics core to the discipline or aligned with research activity or with wider interdisciplinary scope.
- Contribution to relevant service duties, commensurate with the level of appointment, to support efficient operation of the organisation.
- Engagement with relevant committees within the School and/or the University.
- Embedding social responsibility and environmental sustainability within teaching and research.
- Promoting equality, diversity, inclusion and access.
- Participating as member of the School and the wider Faculty in activities, meetings and events.

Essential Criteria

- 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 Robot-Assisted Manufacturing.
- A developing trajectory track record of research output in internationally leading journal publications or other equivalent recognised forms of research output.
- 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;
- Capability for establishing links with industry and other academic researchers, generating funding streams from research councils, European Commission and industry.
- Good communication skills and an ability to foster interdisciplinary collaboration.
- Commitment to taking responsibility for the health and safety of others, including the development and implementation of risk assessments.
- Commitment to contributing improvements to advance our inclusive, equal and fair working environment.
- Commitment to conducting academic activities in a low-carbon manner.
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