

Lecturer in Advanced Nuclear Reactor Technology  
University of Manchester

Direct Link: <https://www.AcademicKeys.com/r?job=251759>

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Posted Jan. 16, 2025, set to expire Feb. 16, 2025

**Job Title** Lecturer in Advanced Nuclear Reactor Technology  
**Department** Department of Mechanical and Aerospace Engineering  
**Institution** University of Manchester  
Manchester, Manchester, United Kingdom

**Date Posted** Jan. 16, 2025

**Application Deadline** Feb. 16, 2025

**Position Start Date** As soon as possible following completion of recruitment cycle

**Job Categories** Lecturer/Instructor

**Academic Field(s)** Nuclear  
Engineering - Other

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**Job Description**

THE UNIVERSITY OF MANCHESTER  
PARTICULARS OF APPOINTMENT

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FACULTY OF SCIENCE & ENGINEERING  
SCHOOL OF ENGINEERING  
DEPARTMENT OF MECHANICAL, AEROSPACE AND CIVIL ENGINEERING  
LECTURER IN ADVANCED NUCLEAR REACTOR TECHNOLOGY  
VACANCY REF: SAE-027529

Salary: Grade 7 £46,485 to £56,921 per annum, depending on relevant experience

Hours: Full time (1 FTE)

Duration: Permanent

Location: Oxford Road, Manchester

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Enquiries about the vacancy, shortlisting and interviews:

Professor Tim Abram, FEng - Professor of Nuclear Fuel Technology, Department of Mechanical and Aerospace Engineering, School of Engineering, The University of Manchester

Email: [tim.abram@manchester.ac.uk](mailto:tim.abram@manchester.ac.uk)

Professor Paul Mummery – Professor of Nuclear Materials, Department of Mechanical and Aerospace Engineering, The University of Manchester, School of Engineering,

Email: [paul.m.mummery@manchester.ac.uk](mailto:paul.m.mummery@manchester.ac.uk)

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### **The University of Manchester**

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

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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, and, nationally, 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.

### **Dalton Nuclear Institute**

The University of Manchester's Dalton Nuclear Institute is the umbrella organisation for nuclear activity at Manchester, spanning three faculties to co-ordinate the most advanced nuclear research capability in UK academia. Manchester's exceptional research community holds a diverse and extensive expertise that makes us unique in UK academia: we are the only UK university to cover the full nuclear fuel cycle, addressing the major challenges associated with nuclear power: plant life extension, new nuclear build, decommissioning and radioactive waste management. Our expertise also encompasses fusion power, health and social research.

Bringing this community together, the Dalton Nuclear Institute acts as an authoritative, trusted source of information, engaging actively with the public, media, stakeholders, and government, and contributing to important national and international conversations around nuclear energy.

### **Person Specification**

#### Key Responsibilities, Accountability and Duties

The appointee will be responsible for the following

- Securing funding from research councils and other relevant sources such as industry and non-

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- government bodies to support research activity and researchers
- Development and delivery of internationally excellent research in the area of advanced nuclear reactor technology
- 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 experience) in a subject relevant to nuclear engineering. Whilst we welcome interdisciplinary applicants, a level of scientific expertise relating to nuclear engineering is essential
- Able to demonstrate an inspiring vision for research and in-depth knowledge in the field of advanced nuclear technology, with particular emphasis on reactor nuclear and thermal hydraulic core design
- 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 nuclear and mechanical engineering to undergraduate and postgraduate student
- 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

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environment

- Commitment to conducting academic activities in a low-carbon manner

### **EEO/AA Policy**

[Equality, diversity and inclusion | The University of Manchester](#)

### **Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

### **Contact**

United Kingdom