



Job Title: Associate Professor in Materials Engineering
Grade: 9
Salary: £59,966 to £67,468 per annum, pro-rata if part-time
Department: School of Engineering
Hours/Contract: Full-time or job share, permanent
Job Family: Teaching and Research
Reference: 12336

Role Purpose

To establish an independent base for world leading research and research inspired education in the field of Materials Engineering. The role holder will be expected to teach across all Engineering UG and PGT programmes as and when needed taking into their account individual interest whenever possible. They will also be expected to identify potential for developing new programmes as well as collaborative opportunities in expanding our taught programme portfolio.

The School of Engineering is a welcoming and inclusive team of academics with 5 Research Groups working closely together: Aerospace, Biomedical, Digital Manufacturing and Management (DMM), Green Energy and Transport (GrEaT) and Mechanics of Materials (MoM). The Associate Professor in Advanced Manufacturing will be expected to contribute to research across all Engineering Research Groups, but especially Digital Manufacturing and Management Group, Aerospace and Mechanics of Materials

Main Duties and Responsibilities

World Changing Research

- Maintain an emergent portfolio of internationally recognised publications that are world-leading in terms of originality, significance and rigour as appropriate to the field or discipline, and which have an impact on society, economy, culture, industry, government, policy or practice
- Engage in research and enterprise leadership, making significant contributions to promoting and embedding an inclusive and respectful research culture
- Secure sustained external research income on an individual and collaborative basis, as appropriate to the field or discipline
- Provide high quality PGR supervision and training, contributing to securing funding for postgraduate and early career researchers and increasing PGR recruitment within the subject discipline
- Participate in and lead strategic national and/or international research networks, partnerships and collaborations
- Support the research development of PGRs and colleagues, through mentoring, coaching and training





Research Inspired Education

- Undertake research-led teaching on undergraduate and/or postgraduate taught courses, incorporating innovative teaching methods and the latest educational concepts.
- Contribute to the development, enhancement and achievement of the academic strategy in the School, through leading and engaging in activities/projects that drive innovation and have a beneficial impact
- Lead the development, revision and updating of programmes at undergraduate and/or postgraduate level, ensuring that they are inclusive, embed key skills, and incorporate sustainable development goals
- Lead teaching delivery and assessment to ensure consistent high quality teaching practice, providing timely formative student feedback and assessment for coursework and examinations
- Provide support and contribute to shaping a comprehensive range of student support initiatives at School, College, and/or University level, including, placement support, links with industry, personal tutor support, employability activities/projects and open days support
- Work with students to provide world class teaching and learning opportunities and an excellent student experience, regularly collecting and responding to student feedback
- Demonstrate wider educational impact through contributions to projects or scholarly discourse aimed at enhancing pedagogy or improving student outcomes
- Engage with scholarship and pedagogical research to continuously develop own teaching practice and that of others, leading to improved delivery and outcomes, with due regard for sector best practice

Our Citizens

- Contribute to initiatives and activities that inform national and international policies and decisions, generating a positive impact beyond the University and making a tangible contribution to society.
- Contribute to the practice or debate around policies or practice, based on research evidence and/or scholarly activity
- Participate in public engagement activities, including authoring articles in non-research publications and online, which raise the external profile of the University and share the benefits of Higher Education and research
- Actively engage with the academic discipline both nationally and internationally, undertaking roles on external committees, reviews and panels and/or contributing to conferences and volunteering initiatives which demonstrate impact beyond the University
- Participate in and undertake leadership roles at School, College, and/or University level, contributing to management and administrative processes and committee structures
- Lead and support the recruitment, management and development of staff and students, through coaching, mentoring and supporting recruitment activities





Internal and External Relationships

Develop mutually beneficial, effective relationships across other Schools/Departments in the University and with national and/or international partners, that support and deliver the University strategy.

Represent the University nationally and internationally, including at committees, conferences and meetings.

Work collaboratively with other members of the module delivery team and participate in teaching team meetings.

Coordination with central University offices.

Planning and Organising

Shape the strategic direction in the research area, developing clear long term (many months/years) plans for sustaining and enhancing the research programme.

Long term planning and organisation of the delivery of teaching and assessment.

Participate in the departmental operational planning process, supporting the strategic direction of the Department/School and College.

Qualifications, Knowledge and Experience

Essential

- A PhD and/or lectureship and/or equivalent industrial research track record in relevant engineering field including manufacturing or energy related industries.
- Professional Engineering registration as a Chartered Engineer (CEng) or Chartered Scientist (CSci) OR a commitment to obtain this registration.
- Expertise that complements or enhances existing strengths within the School/Department*
- Sustained publication of outputs (commensurate with disciplinary norms) that are internationally recognised and world-leading in terms of originality, significance and rigour, some with world-leading impact both within and beyond academia*
- Robust future plans for research applications*
- Sustained external research income, with success in securing external funding that exceeds the discipline benchmark*
- Involvement in and leadership of relevant research and professional networks on a national and international level*
- A track record of successful supervision of PGR/PhD/MD students*
- Experience of teaching at undergraduate and postgraduate level, evidenced by a sustained record of excellent student outcomes*
- Experience of contributing to the management, development and delivery of undergraduate and postgraduate programmes*





- Demonstrable commitment to continued development of own teaching practice and that of colleagues*
- Evidence of external recognition of teaching practice through positive module evaluation and sustained excellent feedback from students, peer review, and external examiners or external assessors*
- Evidence of leadership and involvement in significant internal and external committees and groups, and engagement with business, community and/or educational partners*
- Fellowship of the HEA or equivalent accredited teaching qualification, or commitment to gain an accredited teaching qualification on appointment within a set timescale*

Desirable

- Senior Fellowship of the HEA or equivalent*
- Successful completion of CPD*
- Evidence of sustained positive outcomes from incorporating research or professional skills to improve the curriculum*
- Evidence of leading and/or contributing to initiatives that have a positive impact on recruitment and student outcomes*

Skills, Abilities and Competencies

Essential

- High level of proficiency in English, sufficient to undertake research, teaching and administrative activities and to communicate effectively with staff and students*
- Ability to lead, motivate, develop and manage the performance of a team
- Ability to work independently and as part of a multi-disciplinary team
- Excellent interpersonal skills, to develop networks and form collaborations
- Effective presentation skills
- Ability to develop resource material to enhance teaching quality
- Ability to deliver classes using a comprehensive range of delivery methods, including lectures, seminars and tutoring
- Skills in coaching, mentoring and developing others, including students, early career researchers and colleagues
- Skills in pastoral care and motivation of students
- A commitment to the delivery of a high quality service to students
- Ability to prioritise tasks within agreed work schedules
- Ability to plan, organise, implement and deliver programmes of work
- An awareness and understanding of diverse community issues and a strong commitment to equity, diversity and inclusivity and continuous improvement in pursuit of Operational Excellence





Desirable

- Ability to teach classes using distance learning
- Ability to provide support to students via Blackboard

****Criteria to be used in shortlisting candidates for interview***

Criminal Declaration

If you become an employee, you must inform your manager immediately, in writing, if you are the subject of any current or future police investigations/legal proceedings, which could result in a criminal offence, conviction, caution, bind-over or charges, or warnings.

Teaching Requirements

If requested, you may be expected to undertake teaching, tutoring and administrative duties across a range of modules, particularly in the delivery of teaching modules in China that are part of the Department’s collaborative partnership programmes in the People’s Republic of China.

Supporting University Activities

As a University of Leicester citizen, you are expected to support key university activities such as clearing, graduation ceremonies, student registration and recruitment open days. We expect all staff as citizens to work flexibly across the University if required.

University Values

Inclusive - We are diverse in our makeup and united in ambition. Our diversity is our strength and makes our community stronger.

Inspiring - We are passionate about inspiring individuals to succeed and realise their ambitions. We challenge our community to think differently, to get involved, and to constantly embrace new ideas.

Impactful - As Citizens of Change we will generate new ideas which deliver impact and empower our community

Freedom of Speech

The University is committed to upholding freedom of speech and academic freedom within the law throughout our recruitment processes. We ensure that all candidates are considered based on merit and suitability for the role, without regard to their lawful viewpoints or the expression of challenging or controversial ideas. Our recruitment policies and practices are designed to protect applicants from discrimination or adverse treatment on the basis of their opinions, and to foster an environment where open debate and diverse perspectives are valued as essential to our academic mission.





Equity and Diversity

We believe that equity, diversity and inclusion is integral to a successful modern workplace. By developing and implementing policies and systems that challenge stereotypes across all aspects of our work, we have a culture that recognises and values the diverse contributions of our staff which benefits everyone. Our strong values of inclusivity and equity support our efforts to attract a diverse range of high quality staff and students, and identify our University as a progressive and innovative workplace that mainstreams equity, diversity and inclusion.

