

**Job Title:** Teaching Fellow in Engineering Mathematics and Computational Methods

**Grade:** 7

**Salary:** £39,355 to £45,413 per annum, pro-rata if part-time

**Department:** Engineering

**Hours/Contract:** Full-time or job share, fixed-term contract from 15 September 2025 to 14 September 2026

**Reference:** 11881

## Role Purpose

You will undertake teaching and teaching-related administration to support the work of the School to develop and enhance its reputation, both internally and externally to the University. The duties of academic staff are flexibly organised and assigned by the Head of the School. You will undertake high quality teaching in cognate areas across the discipline.

## Main Duties and Responsibilities

### Teaching

- To inspire and motivate students through leading and delivering the planning, organising and delivery of a range of engineering teaching and learning experiences that are tailored to the specific needs of the programme, students, intended learning outcomes and standards set by professional bodies.
- Achieve high student satisfaction, high academic standards and a student-centred approach, promoting professional and inclusive interactions with students within and beyond the classroom.
- Supervise students undertaking major research projects at undergraduate, and taught postgraduate level.
- To develop new course materials where necessary, ensuring the application of innovative and appropriate teaching techniques and materials that embed the latest educational ideas and methods including the use of digital technologies.
- To contribute to the review, development and continuous improvement of the curriculum and in the design and launch of new degrees or other academic awards where appropriate.
- To provide assessment and feedback that fosters student engagement and independent learning, such as setting exam questions and coursework assignments, completing all marking and record-keeping in accordance with School QA procedures.
- To act as a personal tutor for assigned students, providing outstanding mentoring/coaching, pastoral and welfare support where required.
- To adopt a reflective and analytical approach to continuously improve their teaching and learning practice, including ensuring that student feedback on teaching is sought and to respond constructively to such feedback and to advice from colleagues.

### Administration

- To undertake such specific school roles as may be reasonably required by the Head of School (or their delegate), discharging these in a proactive and organised way to achieve evidence of impact for students and colleagues.
- To take on appropriate leadership responsibility for an aspect of research or education within the School and to role model collegial behaviour to colleagues.





- To attend school meetings as designated by the Head of School and participate in other committees and working groups as necessary within the school, college and university.
- To proactively manage own continuous professional development, for example through identifying development needs, participation in relevant development activities and critically reflecting.
- Mentor, coach and develop early career academic colleagues both formally and informally.
- To undertake, subject to agreement, external commitments that reflect well upon and enhance the reputation of the university.
- Attend visit and open days, contribute to marketing and outreach
- To ensure compliance with health and safety requirements, equality, diversity, inclusion and corporate social responsibilities in all aspects of work.

## Scholarship

- To undertake scholarship activities associated with Engineering teaching, (e.g. professional engineering practice, impact and knowledge exchange and horizon scanning) to ensure that students' knowledge and skills reflect the state-of-the-art in their discipline.

## Internal and External Relationships

Collaboration with other schools within the University, industrial partners, and other higher-education institutions and schools both nationally and internationally.

## Planning and Organising

Responsible for proactively managing own assigned workload and administrative duties to achieve a number of key deadlines through the academic year, including building appropriate contingency for critical tasks and exercising excellent judgement in prioritisation where appropriate. Setting plans and timescales for others when required as part of a leadership or administrative responsibility.

Shaping the strategic direction of your own area of activity, and contributing to the development of school-, college- and university-level strategies, operational planning and implementation of such strategies.

## Qualifications, Knowledge and Experience

### Essential

- A good first degree in Mathematics or Engineering or a relevant Physical Science OR an HNC/HND which would meet the academic requirements for registration to at least Incorporated Engineer (IEng) standard\*
- Experience in the preparation and delivery of teaching, or training and mentoring in an academic or industrial engineering environment\*
- A PhD (or close to completing a PhD) OR equivalent relevant industrial or educational engineering experience, in areas including\*
  - Applied Mathematics and Computational Methods;
  - Computational Modelling of Engineering or Physical Systems;
  - Data Science;
  - Machine Learning/Artificial Intelligence





- Evidence of a proven track record in Higher Education or a professional engineering environment.

## Desirable

- Evidence of ability to contribute to school's current curriculum\*
- Evidence of developing and using digital materials for teaching or training.
- Evidence of practical engineering manufacturing knowledge and skills.
- Evidence of knowledge of Engineering management techniques and their application in industry.
- Achieved, (or with the potential to achieve) professional registration as an Incorporated Engineer (IEng) or Chartered Engineer (CEng).
- Fellowship of the Higher Education Academy (FHEA) or a willingness to obtain this

## Skills, Abilities and Competencies

### Essential

- Proven ability to teach at university or equivalent professional level
- Effective written\* and verbal communications skills
- High level of proficiency in English, sufficient to undertake teaching and administrative activities utilising English Language materials and to communicate effectively with staff and students
- Excellent interpersonal skills, specifically the ability to promote professional and inclusive interactions with students within and beyond the classroom
- Ability to proactively plan and manage own workloads and manage conflicting demands through prioritisation.
- Ability to work flexibly in a team
- A commitment to enhancing Equality, Diversity and Inclusivity in the Engineering profession

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

## Reason for Fixed Term Contract

The reason for the fixed term contract is stated in section 1.9 in the summary of contractual terms in your contract of employment.

## 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

### 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.

