



Job Title: Lecturer in Data Science and Applied Mathematics (Teaching Focussed)
Grade: 8
Salary: £44,263 to £54,395 per annum
Department: School of Computing and Mathematical Sciences
Hours/Contract: Full time or job share considered, Permanent
Job Family: Teaching
Reference: 9942

Role Purpose

To undertake undergraduate and postgraduate teaching in data science and applied mathematics. Help students to manage projects and provide a high level of professionalism and quality assurance. To inform teaching and development, engage in scholarship (teaching-related, empirical or pedagogical research) and play an active role in sharing expertise across the College, University and beyond.

Main Duties and Responsibilities

Teaching

- Give lectures, seminars, tutorials and other classes, especially in areas related to data science, as allocated by the Head of School in accordance with teaching obligations.
- Supervise project work by undergraduate and postgraduate students.
- Maintain a broad knowledge of up-to-date research and scholarship in relevant fields to ensure that teaching meets the standards expected within a research-led University.
- Undertake other academic duties (such as setting and marking coursework and examination papers, invigilation, participation in course reviews and pastoral support of students) required to sustain the delivery of high-quality teaching.
- Support and comply with the University and departmental teaching quality assurance standards and procedures, including the provision of such information as may be required by the School or the University.

Scholarship

- Work across the College of Science and Engineering on pedagogical and/or curriculum developments.
- Contribute to teaching innovation and development across the University, sharing good practice across Schools.
- Contribute to University or external policy making in the areas of teaching and learning support.
- Edit course material with updated information where appropriate to the School and help develop innovative teaching and assessment materials, including online material and interactive modelling applications.
- Engage in continuous professional development, through participation in relevant staff development programmes, in particular to achieve a FHEA qualification.





Administration and Other Activities

- Undertake such specific departmental roles and management functions as may be required by the Head of School.
- Attend meetings and participate in committees and working groups within the School, the College and the University to which appointed or elected.
- Engage in continuous professional development, for example through participation in relevant staff development programmes.
- Undertake, subject to the agreement of the Head of School and the University as appropriate, external commitments that reflect well upon and enhance the reputation of the University.
- Ensure compliance with health and safety requirements in all aspects of work.
- Take responsibility for organising resources and effective decision making in support of research and teaching.

Internal and External Relationships

- Coordination with central University offices as required.
- Liaison with colleagues within the School as required.
- Building and maintaining contacts with industry or other external partners and work on joint projects.

Planning and Organising

Plan and deliver a course of lectures to undergraduate, masters, or PhD students. Seek guidance from Teaching and Research mentors, administrative support staff and other academic colleagues as required.

Qualifications, Knowledge and Experience

Essential

- A PhD or equivalent in any area that can be related to Data Science or Applied Mathematics*
- Expertise in one or more of the following areas*
 - Data science tools and techniques, at least at an intermediate level
 - Programming in a high-language for data science, such as R or Python
 - Knowledge of Excel or similar spreadsheet software
- Experience or knowledge of higher education and ability to use a range of delivery techniques to inspire and engage students*
- Academic Teaching Qualification or commitment to gain the appropriate category of HEA Fellowship.

Desirable

- Experience or potential in one or more of the following areas is desirable:





- Advanced knowledge of Data Science techniques and tools.
- Experience in supervision of undergraduate or postgraduate student projects and dissertations.

Skills, Abilities and Competencies

Essential

- Ability to demonstrate behaviours that are in accordance with the University values of inclusive, inspiring and impactful.
- 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*.
- Proven ability or potential to initiate work independently and as part of a team, both on research and teaching programmes.
- Proven ability or potential to teach undergraduate and postgraduate students in workshops, lectures, tutorials and seminars, and to supervise postgraduate students.
- Ability or potential to help develop curricula.
- Ability or potential to engage in outreach activities.
- Good written* and oral communication skills, along with presentation and training skills.
- Good interpersonal skills.
- Ability to teach and supervise undergraduate and postgraduate students in applied areas of applied mathematics*, including:
 - Use of spreadsheet software for data science, including data visualisation
 - Use of high-level programming languages for data science, including data visualisation
- Good interpersonal and personal skills and traits including:
 - Selflessly balancing the needs of colleagues, the organisation against your personal goals
 - Time management and prioritisation
 - Commitment to accountability, integrity, and trustworthiness
 - Ability to work in teams and to be able to balance organization and personal goals
 - Solution-focussed and problem-solving mentality

Desirable

- Ability to collaborate with existing staff in other application domains within and outside the School of Computing and Mathematical Sciences.

***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.





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.

