



UNIVERSITY OF LEEDS

## CANDIDATE BRIEF

Lecturer in Mechanical Engineering (Teaching and Scholarship),  
Faculty of Engineering and Physical Sciences



**Salary: Grade 8 (£51753 - £59966)**

**Reporting to: Head of School**

**Location: On campus in Leeds and at the Joint School in China**

**We are open to discussing flexible working arrangements.**

# **Lecturer in Mechanical Engineering (Teaching and Scholarship), School of Mechanical Engineering.**

**Do you have the skills to teach and enthuse undergraduate students in the areas of engineering design and CAD and the enthusiasm to develop new teaching approaches in one of the leading UK Schools of Mechanical Engineering?**

## **Overview of the Role**

As a member of the School you will contribute to the delivery of student education with particular emphasis on training students in CAD and engineering design. You will lead and deliver modules in these areas as directed by the Head of School and the Director of Student Education, working with colleagues to ensure this training aligns to subsequent modules in our research-led curriculum and meets the requirements of our external professional bodies. These modules will be delivered on campus in Leeds and, in some cases, may be delivered at our Joint School in China. You will also be involved in running a number of design and build 'competitions' as part of our degree programmes and provide tutorial and project supervision.

## **Main duties and responsibilities**

### **Teaching and learning:**

- Delivering specific education in the areas of CAD and engineering design to undergraduate students in Leeds and at our Joint School and leading associated modules;
- Delivering education at different levels on undergraduate and postgraduate taught courses and taking part in other teaching activity, including tutorials, promoting and developing student competencies related to enquiry and research, core to a research-based education;
- Establishing and maintaining expertise at the forefront of your field/ disciplinary area and incorporating this into your teaching;



- Forming part of a University-wide cohort community, taking part in regular events, sharing good practice, and working collaboratively with project teams across the institution;
- Contributing to the planning, design, development, delivery and review of learning units (modules and programmes) within relevant subject areas;
- Playing an active part in the development and adoption of teaching and learning practice in the School;
- Contributing disciplinary pedagogic expertise and experience to areas of the curriculum, facilitating and encouraging colleagues to think creatively and innovatively about development of teaching and learning practice;
- Taking a leading role in the development of teaching and learning practice in the school, with an emphasis on inclusion, active learning, project-based learning, and technology-enhanced learning.

#### **Curriculum review and redesign:**

- Contributing to Equality, Diversity and Inclusion initiatives that create an inclusive learning environment within the school, ensuring we attract and retain the best students from all backgrounds, from across the world and support them to flourish;
- Facilitating and supporting colleagues to use appropriate tools and technology to support and promote curriculum mapping and design;
- Working with Student Education Leadership in the school/ faculty to co-ordinate and communicate timelines across project components.

#### **Education research and scholarly activity:**

- Carrying out scholarship of teaching and learning, informing ongoing innovative curriculum design and delivery, and contributing to the thinking and understanding of the sector (e.g. through scholarly publications and posts, discussions, conference participation etc.);
- Contributing to the production of high-quality and innovative learning materials and resources to support learning and teaching in the school and discipline(s);
- Contributing to the development of innovative approaches to teaching and learning;
- Conducting other scholarship activities such as: investigating barriers to attainment in higher education; creating open education resources, contributing to textbooks; and other priorities agreed with the Head of School;



- Contributing to pedagogic research and/or the development of teaching policy and practice, disseminating findings/developments across the wider academic or professional community.

### **General:**

- Undertaking research-led teaching at different levels, including assessment and examinations and contributing towards module design, review and quality assurance mechanisms;
- Providing support and guidance to students, providing timely feedback, acting as a personal tutor, resolving issues and/or referring to specialist parties, where appropriate;
- Contributing effectively to the administrative processes and committee structures of the School/Faculty including taking on leadership roles and managing initiatives which facilitate School, Faculty or University performance or business.

These duties provide a framework for the role and should not be regarded as a definitive list. Other reasonable duties may be required consistent with the grade of the post.

## **Qualifications and skills**

### **Essential**

- A postgraduate degree in mechanical engineering or equivalent work experience in a relevant field/disciplinary area;
- Expertise in CAD and design and the ability to teach this at various levels;
- You will have experience in the design of teaching and embedding of concepts across programmes, with the ability to extend horizons of blended and digital learning experiences;
- Evidence of contributing to teaching and learning policy and practice within a school/department (or equivalent), discipline or subject area, including experience of module/programme review and enhancement;
- Experience of effectively using digitally enabled approaches to learning in a Higher Education or related environment;
- Evidence of working to promote equality, diversity, and inclusion in Student Education, and supporting the needs of a diverse student population.



## Desirable

- Familiarity with SolidWorks CAD software
- A PhD or equivalent in a relevant discipline;
- Experience of working with colleagues across interdisciplinary boundaries, undergraduate laboratory teaching, student support and supporting admissions;
- Experience of conducting outreach activities and/or delivering student projects with industrial partners;
- Evidence of significant contributions to the scholarship of teaching and learning, with a record of successfully obtaining resources to deliver a significant educational activity;
- An understanding of policy and strategic issues relating to teaching and learning in Higher Education.

## How to apply

You can apply for this role online; more guidance can be found on our [How to Apply](#) information page. Applications should be submitted by **23:59** (UK time) on the advertised closing date.

## Contact information

To explore the post further or for any queries you may have, please contact:

### Dr Mark Wilson (Director of Student Education)

<https://eps.leeds.ac.uk/mechanical-engineering/staff/120/dr-mark-wilson>

Tel: +44 (0)113 343 2177

Email: [m.wilson@leeds.ac.uk](mailto:m.wilson@leeds.ac.uk)

## Additional information

### Faculty and School Information

Further information is available on the research and teaching activities of the [Faculty of Engineering & Physical Sciences](#), and the School of Mechanical Engineering.

<https://eps.leeds.ac.uk/mechanical-engineering>

## Working at Leeds



We are a campus-based community and regular interaction with campus is an expectation of all roles in line with academic and service needs and the requirements of the role. We are also open to discussing flexible working arrangements. To find out more about the benefits of working at the University and what it is like to live and work in the Leeds area visit our [Working at Leeds](#) information page.

### **A diverse workforce**

As an international research-intensive university, we welcome students and staff from all walks of life and from across the world. We foster an inclusive environment where all can flourish and prosper, and we are proud of our strong commitment to student education. Within the Faculty of Engineering and Physical Sciences we are dedicated to diversifying our community and we welcome the unique contributions that individuals can bring, and particularly encourage applications from, but not limited to Black, Asian and ethnically diverse people; people who identify as LGBT+; and people with disabilities. Candidates will always be selected based on merit and ability.

We have identified that women are currently underrepresented in the School as a whole and particularly welcome applications from a wide range of diversity. Candidates will always be selected based on merit and ability.

The Faculty of Engineering and Physical Sciences are proud to have been awarded the Athena SWAN [Silver](#) Award from the Equality Challenge Unit, the national body that promotes equality in the higher education sector. Our [equality and inclusion webpage](#) provides more information.

### **Information for disabled candidates**

Information for disabled candidates, impairments or health conditions, including requesting alternative formats, can be found under the 'Accessibility' heading on our [How to Apply](#) information page or by getting in touch by emailing HR via [hr@leeds.ac.uk](mailto:hr@leeds.ac.uk).

## **Criminal Record Information Rehabilitation of Offenders Act 1974**



A criminal record check is not required for this position. However, all applicants will be required to declare if they have any 'unspent' criminal offences, including those pending.

Any offer of appointment will be in accordance with our Criminal Records policy. You can find out more about required checks and declarations in our [Criminal Records](#) information page.

