

## JOB DESCRIPTION

<b>Job Title:</b>	LECTURER (L) in Mechanical Engineering	<b>Grade:</b>	AC2
<b>Department:</b>	School of Engineering	<b>Date of Job Evaluation:</b>	October 2021
<b>Role reports to:</b>	Head of School of Engineering		
<b>Direct Reports</b>	None		
<b>Indirect Reports:</b>	None		
<b>Other Key contacts:</b>			
<p>This role profile is non-contractual and provided for guidance. It will be updated and amended from time to time in accordance with the changing needs of the University and the requirements of the job.</p>			

### **PURPOSE OF ROLE:**

To conduct high quality research and teaching on undergraduate and postgraduate programmes in the area of Mechanical Engineering. The role will focus on delivering high quality education in a variety of formats as well as research and enterprise activities. The person appointed will be expected to:

- Contribute to the delivery of existing teaching, aid course development and to participate in the research carried out in the School.
- Contribute more widely to the delivery of teaching activities, this will reflect the successful candidate's own subject specialism appropriate for the needs of a diverse student body; across the range of courses offered by the School.
- Engage in research and professional practice across the subject area and contribute to the research profile of the School and to future Engineering REF submissions.
- Contribute significantly to the supervision of undergraduate and post graduate student projects

### **KEY ACCOUNTABILITIES:**

#### **Team Specific:**

- Contribute to the delivery of high quality, innovative and effective teaching and new teaching initiatives, including inclusive approaches to setting and marking assessment.

- Work proactively on specific research topics aligned to your own and the School's research interests.
- Assist with personal and academic tutoring of undergraduates.
- Support the design and development of new programmes / modules demonstrating excellent curriculum design.
- Contribute to curriculum development within the School.
- Support the preparation of external accreditation activity.
- Contribute to the integration of enterprise work / research and scholarship and activities into teaching or professional training materials.
- Participation in the delivery of new courses, including CPD and degree apprenticeships, integrating enterprise, innovation or external engagement activities.
- Contribute to subject, professional and/or pedagogical research leading to the publication and / or dissemination of original work.
- Contribute to the research profile of the academic unit and to future REF submissions
- Contribute to and initiate the development of funding bids for internal and external resources to fund research, enterprise or teaching projects.
- Contribution to the continuous improvement of the student experience or lead programmes / modules effectively including adopting a responsive approach to students.
- Effective cross working with Professional Services to support students.
- Contribute to relationship management and engagement with key external bodies for teaching at a regional and national level, the national or regional public / cultural sectors / business, industry / professional bodies in relation to teaching, research or enterprise.
- Maintain effective, high quality and productive working relationships with professional bodies and employers.
- Supervision of undergraduate and postgraduate students and projects.
- Work with other academics and lead the development of new courses, programmes and learning experiences in the School's discipline areas, developing the subject area and sharing best practice across the Faculty and University.
- Work with other academics and the administrative teams to deliver excellent student care and support student success and employability.
- Contribute to the general academic administrative work of the School and Faculty.

**Generic:**

- To develop and deliver courses in Mechanical Engineering subjects:
  - Specialist in Fluid mechanics, including advanced topics plus a strong background in thermodynamics.
  - Good CFD experience, including coding and use of industry standard CFD software.
  - Significant teaching experience, including development and delivery of fluid mechanics and thermodynamic modules.
- Assist the Engineering Team in achieving the School's KPIs.
- Contribute to School plans, activities and efficient working practices.
- Participate in visit to schools, local community groups, public engagements and related activity.
- Demonstrate a commitment to equality, diversity and inclusion through teaching practice and / or engagement with University initiatives.
- Contribute to peer review and School based teaching development activities.
- Promote your work and represent your discipline and the work of the University internally

and externally, and take a proactive approach to ethical, good practice.

### Managing Self

- Develop expertise in inquiry / research-informed teaching with an increasing degree of autonomy.
- Keep abreast of developments within the field and seek continuous improvement of own professional practice.
- Actively participate in established professional development framework activities.
- Behave in a manner which reflects the University values and creates a positive environment for work and study.
- Maintain a high standard of student engagement and satisfaction.
- Seek to maximise the learning outcomes of students.

### Core Requirements

- Adhere to and promote the University's policies on Equality and Diversity and Information Security.
- Ensure compliance with Health & Safety and Data Protection Legislation.
- Support and promote the University's Sustainability policies, including the Carbon Management Plan and carry out duties in a resource efficient way, recognising the shared responsibility of minimising the University's negative environmental impacts wherever possible.

### Additional Requirements:

Any other duties commensurate with the post and grade as agreed with the Head of School of Engineering and the PVC of the Faculty.

### KEY PERFORMANCE INDICATORS:

Performance Indicators will be established in consultation with the Head of School of Engineering as part of the post-holder's annual Appraisal and Professional Development Review.

### KEY RELATIONSHIPS (Internal & External):

Working with colleagues in the programme teams and school to deliver against the school's agenda. Working with colleagues from across the Faculty to support broader Faculty priorities. Externally, working with feeder schools / colleges, industry, and professional bodies.

### PERSON SPECIFICATION

Essential	Desirable
<b>Experience</b> <ul style="list-style-type: none"> <li>• Delivery of teaching in the HE sector ideally in the UK at undergraduate and / or postgraduate level in the field of</li> </ul>	<b>Experience</b> <ul style="list-style-type: none"> <li>• Postgraduate teaching / supervision</li> <li>• Experience in the application of thermo-fluid concepts to renewable energy</li> </ul>

### Mechanical Engineering

- Specialist in Fluid mechanics, including advanced topics plus a strong background in thermodynamics.
- Good CFD experience, including coding and use of industry standard CFD software.
- Significant teaching experience, including development and delivery of fluid mechanics and thermodynamic modules.
- Conducting high quality, innovative and effective teaching on postgraduate and undergraduate programmes.
- Demonstrable industrial links
- Willingness to take administrative roles
- Ability to lead modules effectively including adopting a responsive approach to students.
- Contributing to subject, professional and/or pedagogical research and other scholarly activities in Mechanical Engineering.
- Student care and pastoral provision.
- Supervision of undergraduate and post graduate student projects

### Skills

- Ability to engage with and respond to student feedback.
- Outstanding organisational, IT communication and interpersonal skills.

### Qualifications

- PhD.
- Membership of an appropriate professional body, including holding CEng status or eligible for CEng.
- Working towards Fellowship of HEA.

### Personal attributes

- We are looking for people who can help us deliver the [values](#) of the University of Greenwich: Excellence, Determination, Inclusivity, Ambition and Creativity

systems

- Creating professional / community partnerships.
- Ability to teach across disciplines.
- Leading on external accreditation activity.
- Designing and leading significant teaching and assessment activity.
- High quality publications.
- Initiating the development of Research bids.

### Skills

- An ability to attract collaborative income generation.
- Experience in application writing for research funding and other bids.

### Qualifications

- Fellowship of HEA.

### Personal attributes

- N/A

