

SSAT6 UNIVERSITY TEACHER in Engineering Design, Aeronautical and Automotive Engineering, School of AACME

Job Ref: REQ250280

As part of the University's ongoing commitment to redeployment, please note that this vacancy may be withdrawn at any stage of the recruitment process if a suitable redeployee is identified.

Job Description

Job Grade: Specialist and Supporting Academic Grade 6

Job Purpose

This role will contribute to, develop and enhance, the taught programmes of the School of Aeronautical, Automotive, Chemical and Materials Engineering (AACME), by bringing academic, professional, and vocational expertise to its teaching and enterprise activities.

The successful candidate will play a key role in shaping and delivering teaching and enterprise initiatives, primarily within the Aeronautical and Automotive Engineering (AAE) department. A distinctive strength of AAE's programmes lies in its industry-aligned design modules, which equip students with the skills to take the requirements for an aeronautical or automotive system from conceptualisation through rigorous design evaluations - utilising a variety of technical methods - to the development of a viable final product. Teaching responsibilities will focus on these engineering design and development cycles, with relevant industrial experience considered a strong asset. Expertise in technical areas such as computing and digital engineering design is particularly encouraged, though contributions may also be required to other subject areas primarily within aeronautical and automotive engineering and across the School.

The postholder will contribute to both Undergraduate and Postgraduate teaching and will be expected to support the broader academic community through administrative duties and student mentoring.

JOB DUTIES:

Teaching

- To work with colleagues in the Department and School to deliver an exceptional learning experience for students in the relevant aeronautical and automotive engineering topics.
- To teach and inspire undergraduate and postgraduate students, and to design and conduct associated assessments.
- To act as Module Leader and to engage in the evaluation and development of modules for which you have responsibility, in terms of content, delivery and assessment.
- To promote the use of a range of methods and techniques in teaching, learning and assessment.
- To engage in pedagogy development and innovation to ensure teaching practice is current.

- To prepare high quality course materials and ensure that it is available to students.
- To deliver teaching including individual and group tutorials, seminars and lectures. To supervise practical sessions and individual/group student project work.
- Manage projects relating to own area of work and the organisation of external activities.
- To provide academic and pastoral support to undergraduate and postgraduate students.

Enterprise

- To engage with business, public and voluntary organisations through pedagogic knowledge exchange activities such as student projects and placements, collaboration, and short courses.
- To create social, cultural and economic impact from academic activity where possible.

Related Activities and Functions

- To work effectively with relevant administrative, technical and academic staff in the Department, School and across the University.
- To carry out specific administrative roles and functions as may be reasonably required.
- To take part in staff discussion groups or a School committee.
- To embed EDI into the design and delivery of modules and programmes
- To engage in training programmes in the University (e.g. through Organisational Development and Centre for Enhanced Academic Practice) which are consistent with your needs and aspirations and those of the School.
- To engage fully with the university's professional review and development processes.
- To undertake such other duties as may be reasonably requested and that are commensurate with the nature and grade of the post. This may include marketing, representation of the subject at student recruitment events, industry collaboration and placement development.

Points To Note

The purpose of this job description is to indicate the general level of duties and responsibility of the post. The detailed duties may vary from time to time without changing the general character or level of responsibility entailed.

Special Conditions

All staff have a statutory responsibility to take reasonable care of themselves, others and the environment and to prevent harm by their acts or omissions. All staff are therefore required to adhere to the University's Health, Safety and Environmental Policy & Procedures.

All staff should hold a duty and commitment to observing the University's Equity, Diversity & Inclusion policy and procedures at all times. Duties must be carried out in accordance with relevant Equity, Diversity & Inclusion legislation and University policies/procedures.

Successful completion of probation will be dependent on attendance at the University's mandatory courses which include Belonging and Inclusion, Health & Safety, etc.

Organisational Responsibility

Reports to Dr Thomas Steffen, Deputy Head of Department.

Person Specification

Your application will be reviewed against the essential and desirable criteria listed below. Applicants are strongly advised to explicitly state and evidence how they meet each of the essential (and desirable) criteria in their application. Stages of assessment are as follows:

- 1 – Application
- 2 – Test/Assessment Centre/Presentation
- 3 – Interview

Essential Criteria

Area	Criteria	Stage
Experience	<p>Relevant background in the discipline, with specific and current expertise relevant to the role and discipline.</p> <p>Experience of working in a related high-quality industrial, professional or academic environment.</p> <p>In-depth knowledge of engineering practice, with focus on at least one of three areas: Aeronautical, Automotive or Mechanical Engineering.</p> <p>Experience of working with engineering design cycles, computing and computer aided design, particularly applied to aeronautical and automotive systems design within an academic, professional or industrial environment.</p> <p>Experience of successfully contributing to or supervising the projects of company staff or students.</p>	1,3
Skills and abilities	<p>Excellent organisational skills and the ability to work independently and on own initiative.</p> <p>Flexible approach to working and an ability to prioritise tasks, with a capability of working under pressure to meet deadlines.</p> <p>Excellent team working skills. Good verbal and written communication and interpersonal skills.</p> <p>Ability to teach and supervise under- and post-graduate students.</p> <p>Ability to present complex information to students with a variety of abilities.</p> <p>Ability to provide tutorial and pastoral advice to students.</p> <p>Excellent skills in the presentation/communication of relevant engineering subjects, particularly in the engineering design field.</p> <p>Excellent technical skills in a variety of software tools and applications pertinent to the delivery of engineering teaching, such as Matlab and Python.</p>	1,3

Training	Commitment to and evidence of continuing professional development.	1,3
Qualifications	An outstanding educational profile up to and including first degree and/or Masters in a relevant Engineering discipline.	1
Other	Commitment to observing the University's Equal Opportunities policy at all times.	1,3

Desirable Criteria

Area	Criteria	Stage
Experience	<p>Experience of teaching and assessment at university level for both campus-based and remote students, applied to aeronautical and automotive systems, particularly in areas relating to design cycles, computing and computer aided design within a Higher Education environment.</p> <p>Experience of management in an industrial or academic environment with a view of transferring this experience into the teaching of management to aeronautical and automotive engineering students.</p> <p>Experience of managing complex interdisciplinary design projects.</p> <p>Experience of work in or in collaboration with business or industry.</p>	1,3
Skills and abilities	<p>Ability to take part in module development.</p> <p>Knowledge of the challenges faced in recruiting to and sustaining UK HE engineering degree programmes.</p>	1,3
Qualifications	Achieved or willingness to progress towards appropriate professional status such as Fellowship of the Higher Education Academy.	1

Conditions of Service

The position is 1.0 FTE. Salary will be on SSA Grade 6, in the range £35,116 to £45,413 pa.

The appointment will be subject to the University's normal Terms and Conditions of Employment for Academic and Related staff, details of which can be found [here](#).

The University is committed to enabling staff to maintain a healthy work-home balance and has a number of family-friendly policies which are available at <http://www.lboro.ac.uk/services/hr/a-z/family-leave-policy-and-procedure---page.html>.

We also offer an on-campus nursery with subsidised places, subsidised places at local holiday clubs and a childcare voucher scheme (further details are available at: <http://www.lboro.ac.uk/services/hr/a-z/childcare-information---page.html>)

In addition, the University is supportive, wherever possible, of flexible working arrangements. We also strive to create a culture that supports equality and celebrates diversity throughout the campus. The University holds a Bronze Athena SWAN award which recognises the importance of support for

women at all stages of their academic career. For further information on Athena SWAN see <http://www.lboro.ac.uk/services/hr/athena-swan/>