

**Job Title:** Lecturer in Dynamics and Control Engineering

**Grade:** 8

**Salary:** £46,049 to £56,535 per annum, pro-rata if part-time

**Department:** School of Engineering

**Hours/Contract:** Full-time or job share, permanent

**Reference:** 13734

## Role Purpose

To undertake research in the area of Automatic Control relevant to at least one of School's Groups: Aerospace; Digital Manufacturing and Management, Green Energy Technologies and Systems, Mechanics of Materials, Biomedical. To undertake teaching, tutoring and administrative duties across a range of engineering courses. To deliver teaching modules at the Panjin Campus of Dalian University of Science and Technology (DUT) in China (for up to 25 weeks each academic year), that are part of the School's collaborative partnership programmes with DUT in the People's Republic of China. Contribute to the development and delivery of courses and materials to enhance teaching delivery and to support the work of the School in developing and enhancing its reputation, both internal and external to the University.

## Main Duties and Responsibilities

### Research

- To make a significant contribution to research in the area of Dynamics and Control Engineering, e.g. air and space vehicle flight dynamics, control of autonomous systems or of power networks.
- To establish a sound research base to pursue individual and collaborative research of high quality, consistent with making a full active research contribution at national and international level.
- To apply for research funding, either individually or in partnership with colleagues within and outside the University, from various sources including research councils, charities, relevant government bodies and where appropriate private organisations.
- To publish research outputs and to disseminate the results of research and scholarship in internationally recognised journals and other appropriate outlets.
- Consistent with the resources available and School and other obligations, to attend and present research findings and papers at academic and professional conferences, and to contribute to the external visibility of the School.
- You will bid for, manage and deliver highly regarded research projects to generate research income that will sustain research support for your specialist area.

### Teaching

- To play an active role in the development and delivery of teaching at both undergraduate and postgraduate levels. This includes the development of course materials as well as providing student support via tutorials and electronic feedback.
- The main teaching requirement is the delivery of modules at a collaborative partner university in China. This means teaching in China for up to 25 weeks each year. In the first instance, you will be expected to teach modules in rigid body and structural dynamics and in control engineering at Dalian Leicester Institute based at the Panjin Campus of DUT in China.





- To 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.
- To provide tutorial and project support for undergraduate and postgraduate students studying at Leicester.
- To undertake academic duties (e.g. setting examination papers, marking, invigilation and pastoral support of students) required to sustain the delivery of high quality teaching.
- To support and comply with the University and School teaching quality assurance standards and procedures, including the provision of such information as may be required by the School or the University.

## Administration

- To undertake such specific School roles as may be reasonably required by the Head of School (or such persons to whom responsibility may have been delegated).
- To attend School meetings and to participate in other committees and working groups within the School, College and the University to which appointed or elected.
- To participate in relevant professional activities.
- To engage in continuous professional development, for example through participation in relevant staff development programmes.
- To undertake, subject to the agreement of the Head of School and the University as appropriate, external commitments, which reflect well upon and enhance the reputation of the School and the University.

## Internal and External Relationships

- Collaboration with other Schools of the University, industrial partners and other higher education institutions and schools both national and internationally.
- Academic, technical and administrative members of staff.

## Planning and Organising

- Plan and deliver courses of lectures to undergraduate and taught postgraduate students.

## Qualifications, Knowledge and Experience

### Essential

- An undergraduate degree in engineering, science or mathematics\*
- PhD and post-doctoral research track record in an area relevant to the aerospace, digital manufacturing, low carbon technologies, materials, or biomedical engineering\*
- Track record of publication of high quality journal papers\*
- Academic Teaching Qualification or commitment to gain the appropriate category of HEA Fellowship\*
- Track record of publication of high quality journal papers rated at 4\* (or equivalent)

### Desirable

- Evidence of supervision/co-supervision of PhD students in a research-led environment
- Evidence of undergraduate teaching experience including lecturing or co-supervision of undergraduate projects or using e-learning technologies





- Evidence of ability/potential to contribute to the School's current curriculum
- Membership or/and evidence of activity with professional engineering institutions (preferably chartered engineer registration).

## Skills, Abilities and Competencies

### Essential

- Ability to teach and to supervise projects within the general area of aerospace/mechanical engineering
- High level of proficiency in English (both in writing and verbally), sufficient to undertake research, teaching, and administrative activities utilising English Language materials and to communicate effectively with staff and students at the University of Leicester and at collaborative partners in China
- Good interpersonal skills
- Ability to work flexibly in a team
- Ability to write research grant proposals and high quality journal papers.
- Willingness and ability to travel and work overseas

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

## Teaching Requirements

If requested, you may be expected to undertake teaching, tutoring and administrative duties across a range of modules, particularly in the delivery of teaching modules in China that are part of the Department's collaborative partnership programmes in the People's Republic of China.

## 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 encouraged to support key university activities such as clearing, graduation ceremonies, student registration and recruitment open days. We encourage all staff as citizens to work flexibly across the University if required. If supporting these activities is likely to affect your workload, please speak to your line manager in the first instance

## 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

### Freedom of Speech

The University is committed to upholding freedom of speech and academic freedom within the law throughout our recruitment processes. We ensure that all candidates are considered based on merit and suitability for the role, without regard to their lawful viewpoints or the expression of challenging or controversial ideas. Our recruitment policies and practices are designed to protect applicants from discrimination or adverse treatment on the basis of their opinions, and to foster an environment where open debate and diverse perspectives are valued as essential to our academic mission.

### 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 equality 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 equality, diversity and inclusion.

