



**UNIVERSITY OF LINCOLN  
JOB DESCRIPTION**

<b>JOB TITLE</b>	Senior Lecturer in Robotics and Automation				
<b>DEPARTMENT</b>	School of Engineering				
<b>LOCATION</b>	Brayford Pool				
<b>JOB NUMBER</b>	COS472	<b>GRADE</b>	8	<b>DATE</b>	October 2017
<b>REPORTS TO</b>	Head of School				

**CONTEXT**

The University of Lincoln was awarded HEFCE Strategic Development Funding to establish a new School of Engineering at its Brayford Campus in the centre of Lincoln in 2009. This is a ground-breaking initiative, in collaboration with Siemens and other employers in the engineering sector that seeks to develop engineering education for the 21st century. The school combines Mechanical and Electrical Engineering and offers undergraduate, postgraduate and research degrees as well as conducting research, knowledge transfer and employer engagement. The expansion of Engineering has recently featured a £28M extension, the Isaac Newton Building, and new undergraduate programmes have been introduced in Automation Engineering and Integrated Engineering.

Engineering at Lincoln is research focused, spanning three strategic thrust areas: Intelligent Systems and Control; Power and Energy; Materials and Industrial Processing. We have new research applications in robotics and control engineering related to food and agriculture, as well as more established research in areas such as biotechnology, automated ground vehicles and machine diagnostics. In 2015 we became a Global Principal Partner University with Siemens, one of only 16 such universities worldwide. We have strong international connections and a diverse portfolio of funded research programmes. Current projects include: remote monitoring and fault diagnosis in gas turbines; intelligent vehicle control; laser ignition in gas turbines; high speed rotor vibration control; tilting trains; biofuel technologies; flexible control of energy systems; robotics in agriculture; nanofiber composite materials.

**JOB PURPOSE**

To work with colleagues on curriculum development and the advancement of Robotics and Automation within the University.

To engage with industrially focused research projects, including in the application of automation engineering to agriculture, autonomous ground vehicles etc.

To make a strong contribution to the research profile of the School of Engineering through publication, PhD supervision and obtaining research grants and contracts.

To plan, design and deliver teaching within programmes in relevant discipline areas.

To undertake student tutoring and support, plus general academic support activities.

## KEY RESPONSIBILITIES

The responsibilities of a Senior Lecturer are wide ranging and may change over time according to the development needs of the School and the individual. In general a Senior Lecturer can expect to undertake any of the following:

### Teaching and Learning Support

- To engage in teaching on undergraduate and/or postgraduate level programmes as determined by the Head of School. The range of teaching duties may change from time to time.
- Take responsibility for the design, content and delivery of specific areas of teaching and learning and for the quality of teaching delivered.
- Ensure that teaching content is appropriately informed by current research and advanced scholarly activity.
- Collaborate with colleagues in the continuous review and development of the School's programmes.
- Work in accordance with University policies and procedures to undertake assessment of students' work and give feedback.

### Research and Scholarly Activity

- Make a contribution to the research profile of the School or College and pursue a personal research programme consistent with the School's research priorities.
- Have sufficient outputs to be returned in the REF at agreed minimum standards inclusive of complex circumstances.
- Collaborate in research activities and initiatives with colleagues in and beyond the School.
- Engage in subject professional and pedagogy research as required to support teaching activities.
- Ensure that outcomes of research and scholarly activity are appropriately disseminated in peer reviewed outlets.
- Apply for grant funding and manage, as appropriate, any grants which are secured.
- Supervise and manage research projects as appropriate.

### Liaison and Networking

- Establish contacts within the wider community; disseminate knowledge through public activities which enhance the reputation of the School and College.
- Participate in academic activities with industry and other external partners.

- Maintain and develop links with relevant professional bodies and academic groups.
- Represent the School or College on appropriate external bodies.
- Take part in relevant internal boards, committees and working groups at College or University level as required.
- Liaise with subject librarians, central timetabling and other services to ensure resources available are appropriately deployed.

#### **Team Working**

- Act as a responsible team member, leading modules or programmes and co-ordinating the work of others to identify and respond to student needs.
- May be expected to supervise the work of others and/or participate in peer observation of teaching.

#### **Student Support**

- Act as academic tutor to students as allocated by the Head of School and act as first line contact for them for advice and support on academic matters, ensuring that students are directed to relevant support services when necessary.
- Supervise research degree students as appropriate.
- Supervise student projects and placements as appropriate.

#### **Other**

- Carry out specific School roles and functions as may reasonably be required – these being equitably distributed across the academic staff.
- Assist in student recruitment activities, including interviews, open days and external recruitment events.
- Engage in appropriate training programmes in the University.
- Actively follow and promote University policies.
- Participate in the staff appraisal scheme.

**In addition to the above, undertake such duties as may reasonably be requested and that are commensurate with the nature and grade of the post.**

## ADDITIONAL INFORMATION

<b>Key working relationships/networks</b>	
<b>Internal</b>	<b>External</b>
<ul style="list-style-type: none"><li>• Head of School</li><li>• College Senior Academic Managers</li><li>• Departmental academic, administrative and technical staff</li><li>• Support Services Staff</li></ul>	<ul style="list-style-type: none"><li>• Relevant academic and professional groups</li><li>• Relevant national, regional and international networks</li><li>• External examiners</li></ul>



**UNIVERSITY OF LINCOLN  
PERSON SPECIFICATION**

UNIVERSITY OF  
**LINCOLN**

<b>JOB TITLE</b>	Senior Lecturer	<b>JOB NUMBER</b>	COS472
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<b>Selection Criteria</b>	<b>Essential (E) or Desirable (D)</b>	<b>Where Evidenced Application (A) Interview (I) Presentation (P) References (R)</b>
<b>Qualifications:</b>		
Relevant honours degree or equivalent	<b>E</b>	<b>A</b>
PhD in relevant discipline or equivalent demonstrated research record (normally by publication but where appropriate through professional achievement)	<b>E</b>	<b>A</b>
Teaching qualification	<b>D</b>	<b>A</b>
<b>Experience:</b>		
Relevant teaching in Higher Education <b>OR</b> relevant professional experience	<b>E</b>	<b>A</b>
Curriculum development	<b>D</b>	<b>A/I</b>
Development and innovation of teaching and learning methods	<b>D</b>	<b>A/I</b>
Interdisciplinary work relevant to the School	<b>D</b>	<b>A/I</b>
Research interest in a relevant area of work	<b>E</b>	<b>A/I</b>
Research supervision	<b>D</b>	<b>A/I</b>
Proven record of outputs that would be returnable in the REF	<b>E</b>	<b>A/I</b>
Proven record of external collaborations with academia and/or industry.	<b>D</b>	<b>A/I</b>
<b>Skills and Knowledge:</b>		
Depth and breadth of subject understanding	<b>E</b>	<b>A</b>
Evidence of continuing professional development	<b>E</b>	<b>I</b>
Knowledge of Higher Education	<b>D</b>	<b>A/I</b>
Ability to teach and assess across the range of taught levels offered	<b>E</b>	<b>A/I</b>
Ability to contribute to curriculum development	<b>E</b>	<b>A/I</b>
Ability to support students in their study through academic counselling	<b>E</b>	<b>A/I</b>
Ability to supervise research students	<b>E</b>	<b>A/I</b>
Ability to work on own initiative	<b>E</b>	<b>A/I</b>
Excellent written and verbal communication skills	<b>E</b>	<b>A/I</b>
Good organisational and time management skills	<b>E</b>	<b>I</b>
<b>Competencies and Personal Attributes:</b>		
Enthusiasm and commitment	<b>E</b>	<b>I</b>
Team working	<b>E</b>	<b>I</b>
Flexibility and adaptability	<b>E</b>	<b>I</b>

**Essential Requirements** are those, without which, a candidate would not be able to do the job. **Desirable Requirements** are those which would be useful for the post holder to possess and will be considered when more than one applicant meets the essential requirements.

<b>Author</b>	TG	<b>HRBP</b>	HDR
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