



**UNIVERSITY OF LINCOLN  
JOB DESCRIPTION**

<b>JOB TITLE</b>	Lecturer in Biomedical Robotics Engineering				
<b>DEPARTMENT</b>	School of Engineering				
<b>LOCATION</b>	Brayford				
<b>JOB NUMBER</b>	COS062	<b>GRADE</b>	7	<b>DATE</b>	September 2021
<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, Electrical and Mechatronics Engineering and offers undergraduate, postgraduate and research degrees as well as conducting research, knowledge transfer and employer engagement.

Engineering at Lincoln is research focused, spanning two strategic thrust areas: Industrial Digitalisation and System Intelligence, and Sustainable Energy and Power Systems. We have funded research programmes with a diverse portfolio of UK and International companies and funding bodies, in areas ranging from gas turbine technology to bio engineering. Current projects include remote monitoring and fault diagnosis in gas turbines; intelligent vehicle control; laser techniques in materials and manufacturing; renewable energy; biofuel development; advanced combustion; intelligent control of industrial refrigeration systems; wireless sensor networks for agri-tech.

**JOB PURPOSE**

To work with colleagues on curriculum development and the advancement of Energy Engineering within the University.

To engage with industrially focused research projects, including in the field of Sustainable Energy Engineering.

To contribute to the research profile of the School of Engineering.

To develop and deliver teaching over a range of modules within an established programme

To undertake student tutoring and support.

To carry out a limited number of additional activities in support of the academic work of the department.

**Specific to this post upon appointment:**

To identify and develop research opportunities in the area of Biomedical Robotics Engineering, in-line with the School's research strategy.

To lead the teaching of Robotics and Automation within the School's undergraduate and postgraduate taught programmes and support the development of our Biomedical programme.

## KEY RESPONSIBILITIES

The responsibilities of a Senior Lecturer are wide ranging and may change over time according to the development needs of the department 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 Department. The range of teaching duties may change from time to time.
- Contribute to the design, content and delivery of specific areas of teaching and learning and to the quality of teaching delivered.
- Collaborate with colleagues in the continuous review and development of the Department's programmes.
- Take responsibility for the co-ordination of modules when appropriate to do so and after gaining sufficient relevant experience.
- 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 Department, School or College and pursue a personal research programme consistent with the Department's research priorities.
- Collaborate in research activities and initiatives with colleagues in and beyond the department if appropriate.
- 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.
- Have sufficient outputs to be returned in the REF at agreed minimum standards inclusive of complex circumstances, or at least demonstrate a clear and achievable plan to secure a return if an early career researcher.
- Apply for grant funding and manage, as appropriate, any grants which are secured.

### Liaison and Networking

- Establish contacts within the wider community where possible and begin to form relationships for future collaboration.
- Develop links with relevant professional bodies and academic groups.
- Develop involvement in academic activities with industry and other external partners.

- Take part in relevant internal committees and working groups.
- Liaise with subject librarians, central timetabling and other services to ensure resources available are appropriately deployed.

#### **Team Working**

- Work as a member of a team, collaborating on curriculum development and contributing to departmental meetings.
- Begin to co-ordinate the work of others when appropriate through taking responsibility for module co-ordination.

#### **Student Support**

- Act as academic tutor to students as allocated by the Head of Department 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.
- Take part in the supervision of research degree students as appropriate.
- Supervise student projects and placements as appropriate.

#### **Other**

- Carry out specific departmental roles and functions as may reasonably be required – these being relatively limited in order to allow the role holder to take advantage of planned developmental and research opportunities.
- 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 Department</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**

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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>
Working to or having completed a PhD in relevant discipline or equivalent demonstrated research record (normally by publication but where appropriate through professional achievement)	<b>E</b>	<b>A</b>
HE teaching qualification (HE PGCE or HEA fellowship) OR a commitment to complete one	<b>E</b>	<b>A</b>
<b>Experience:</b>		
Teaching in Higher Education	<b>D</b>	<b>A/I</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 Department	<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>
<b>Skills and Knowledge:</b>		
Evidence of continuing professional development	<b>E</b>	<b>A/I</b>
Developing depth and breadth of subject understanding	<b>E</b>	<b>I</b>
Knowledge of Higher Education	<b>D</b>	<b>A/I</b>
Ability to develop excellent teaching and assessment skills 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 work on own initiative	<b>E</b>	<b>A/I</b>
<b>Competencies and Personal Attributes:</b>		
Enthusiasm	<b>E</b>	<b>I</b>
Commitment	<b>E</b>	<b>I</b>
Team working	<b>E</b>	<b>I</b>
Good interpersonal skills	<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>	AE	<b>HRBA</b>	
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