



UNIVERSITY OF LINCOLN JOB DESCRIPTION

JOB TITLE	Lecturer in Crop Science				
DEPARTMENT	Lincoln Institute for Agri Food Technology (LIAT)				
LOCATION	Riseholme Campus				
JOB NUMBER	COS718	GRADE	7	DATE	December 2019
REPORTS TO	Director of Lincoln Agri-Robotics				

CONTEXT

The University of Lincoln is seeking to appoint one Lecturer position within the new Lincoln Agri-Robotics centre. Applicants should hold a PhD or be near to completion, and should be able to demonstrate an excellent track record in Crop Science or a related field, such as (but not limited to): carbon measurement (using robotics / drones etc), systems modelling, data fusion and/or sensors/sensing.

Lincoln Agri-Robotics (LAR) expands the successful interdisciplinary collaboration between two of the University's leading research groups: the Lincoln Institute of Agri-Food Technology (LIAT) and the Lincoln Centre for Autonomous Systems (L-CAS). The new centre offers the perfect opportunity to make an impactful difference by deploying robotics to address the global challenges facing crop-based agriculture, such as climate change, population growth, political pressures affecting migration, and the demographics of an ageing population.

Once in post, you will develop your own research portfolio within the context of LAR, which includes acquiring external funding, supervising postdoctoral researchers and PhD students, publishing in the highest quality journals and conferences, contributing to real-world applications with positive impacts on the wider society and economy, and conducting, directing and supervising research in line with the targets set by the University. In addition, you will contribute to relevant teaching activities, such as the MSc Robotics and Autonomous Systems and MSc Agri-Food Technology.

The post-holders will benefit from excellent facilities, equipment and ready-made links to our extensive network of industry partners across the agri-food chain. The new centre is based at the University's 200-hectare Riseholme Campus, where researchers enjoy access to a working farm, woodlands, grasslands and watercourses, as well as our robotic fruit farm, including polytunnels and cold storage facilities. The University is also the lead institution for the new EPSRC Centre for Doctoral Training in Agri-Food Robotics (AgriFoRwArdS), together with partners at the Universities of Cambridge and East Anglia. State-of-the-art equipment available for our research includes advanced robotic manipulators and mobile robots, such as Franka arms and our fleet of Thorvald robots; advanced sensing, imaging and camera technologies; and excellent links to industrial facilities and test environments.

JOB PURPOSE

The Lecturer will develop their own research portfolio, which includes acquiring external funding, supervising postdoctoral researchers and PhD students, publishing in the highest quality journals and conferences, contributing to real-world applications with positive impacts on the wider society and economy, and conducting, directing and supervising research in line with the targets set by the University. The Lecturer will also contribute to relevant teaching activities. Working with the Lincoln Agri-Robotics directors, the post holder is expected operate with a significant degree of autonomy within the team. Further responsibilities include:

To contribute to the research profile of the Lincoln Agri-Robotics team, including the Lincoln Institute for Agri-food Technology and the Lincoln Centre for Autonomous Systems.

To work with colleagues on curriculum development and the advancement of relevant discipline areas within the university.

To deliver teaching over a range of modules within an established or emerging 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.

The post holder may be required to help supervise the work of more junior researchers and assist in the delivery of the MSc Robotics and Autonomous Systems, MSc Agri-Food Technology and/or related degree programmes within the University.

KEY RESPONSIBILITIES

The responsibilities of a Lecturer are wide ranging and may change over time according to the development needs of the department and the individual. In general a 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.
- 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 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

- This is primarily a research focussed role.
- Make a contribution to the research profile of Lincoln Agri-Robotics, 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.
- Supervise and manage research projects if required.

Liaison and Networking

- Establish contacts within the wider community; disseminate knowledge through public engagement activities which enhance the reputation of Lincoln Agri-Robotics and the wider university.
- Develop and maintain links with relevant professional bodies and academic groups.
- Participate in academic activities with industry and other external partners.
- Represent the Department or College on appropriate external bodies.
- 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 Director of LIAT and other colleagues 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.

Citizenship

- Help drive innovation and collaboration throughout the food chain.
- Contribute to the wider mission and reputation of the University with active involvement in activities contributing to general university life e.g. open days, student activities, alumni events, mentoring, personal tutoring and engagement with student support and delivery of outreach activities e.g. school visits, local community activities
- Active participation in committees/groups contributing to university life e.g. health and safety, equality diversity and inclusivity, sustainability and working groups
- Engage in appropriate training programmes in the University, actively follow and promote University policies and participation in the staff appraisal scheme and yearly Individual Research Plan (IRP)
- Contribution to the future development of the University and support the University's wider social, cultural and economic development of our region, our 'civic' mission with engagement and/or leadership of external partnerships contributing to the civic mission

of the University. Participation in external activities such as volunteering, school governor, cultural activities, community activities

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

Key working relationships/networks	
Internal	External
<ul style="list-style-type: none">• Director of LIAT• Director of L-CAS• Director of LAR• College Senior Academic Managers• Other members of Lincoln Agri-Robotics and linked research delivery teams• Departmental academic, administrative and technical staff• Support Services Staff	<ul style="list-style-type: none">• Relevant academic and professional groups• Relevant national, regional and international networks, sponsors and clients• Agri-food industry• External examiners

UNIVERSITY OF LINCOLN PERSON SPECIFICATION

JOB TITLE	Lecturer in Agri-Robotics	JOB NUMBER	COS718
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Selection Criteria	Essential (E) or Desirable (D)	Where Evidenced Application (A) Interview (I) Presentation (P) References (R)
Qualifications:		
Relevant honours degree or equivalent	E	A
Working to or having completed a PhD in relevant discipline or equivalent demonstrated research record (normally by publication but where appropriate through professional achievement)	E	A
HE teaching qualification (HE PGCE or HEA fellowship) OR a commitment to complete one	E	A
Experience:		
Teaching in Higher Education or relevant professional experience	D	A/I
Curriculum development	D	A/I
Development and innovation of teaching and learning methods	D	A/I
Interdisciplinary work relevant to the Department	D	A/I
Proven record of outputs that would be returnable in the REF	E	A/I
Research interest in Agri-Robotics	D	A/I
Research supervision	D	A/I
Working with industry partners to form long term mutually beneficial partnerships	D	A/1
Skills and Knowledge:		
Evidence of continuing professional development	D	A/I
Knowledge of Higher Education	D	A/I
Ability to develop excellent teaching and assessment skills across the range of taught levels offered	E	A/I
Ability to contribute to curriculum development	E	A/I
Ability to support students in their study through academic counselling	E	A/I
Ability to supervise research students	D	A/I
Excellent written and verbal communication skills	E	A/1
Ability to work on own initiative	E	A/I
Good organisational and time management skills	E	A/I
Competencies and Personal Attributes:		
Enthusiasm and commitment	E	I
Team working	E	I
Good interpersonal skills	E	I
Flexibility and adaptability	E	I

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.

Author	TD	HRBP	SP
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