

UNIVERSITY OF LINCOLN JOB DESCRIPTION

JOB TITLE	Research Assistant in Intelligent Sensor Systems				
DEPARTMENT	Engineering				
LOCATION	Brayford				
JOB NUMBER	COS522	GRADE	6	DATE	December 2018
REPORTS TO	Senior Lecturer				

CONTEXT

The Research Assistant will design and develop a new intelligent sensor system for large food storage warehouses for fresh agricultural produce. In this role, the Research Fellow will have the opportunity to work in a multi-disciplinary team including researchers from UK and India engaged in the fields of Engineering, Computer Science, Food Science, Packaging Technology and Agriculture. The candidate must be available to travel within UK and India.

JOB PURPOSE

The Research Assistant is responsible for undertaking research on the project, as directed by the Principal Investigator, and is expected to operate with a significant degree of autonomy by working both independently and also as part of a larger team of researchers.

The post holder may be required to provide embedded systems design support for other research in the School, in robotics, wireless communications and high frequency sensing systems.

Participate in multi-disciplinary team meetings as appropriate and directed by research supervisors and deliver reports and presentations as required by relevant project funding agencies and companies.

KEY RESPONSIBILITIES

Literature Surveys

To undertake literature surveys and other investigations of the state-of-the-art and to prepare reports as required.

Research

To perform specified research under the direction and with advice from the Principal Investigator, to generate original knowledge, contribute to decisions about research direction, and to prepare reports on results, as required.

Plan own day-to-day research activity within the context of the required research programme, exhibiting a high degree of autonomy.

Contribute to the production of research outputs, including software, reports, papers and other publications, and preparation for and presentation at international research conferences.

Liaison and Networking

Liaise with internal and external collaborators, and with colleagues in the Department, maintaining positive and effective working relationships; this may include liaison with senior personnel in other organisations including collaborators, sponsors and clients.

Participate in internal research activities, including seminars, research meetings and continuous professional development activities.

Teaching Support

If required, engage in teaching support activities, up to a maximum of six hours per week.

PhD

Where appropriate and agreed, register for and undertake a PhD or other specified research degree.

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">• Principal Investigator• Senior Lecturers• Project team• Research Office staff• Research Projects Manager• Director of Research Centre• Head of School• Other academic staff within the Department	<ul style="list-style-type: none">• Research collaborators (UK and India)• Sponsors and clients• Project Monitoring Officer

UNIVERSITY OF LINCOLN PERSON SPECIFICATION

JOB TITLE	Research Assistant	JOB NUMBER	COS522
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Selection Criteria	Essential (E) or Desirable (D)	Where Evidenced Application (A) Interview (I) Presentation (P) References (R)
Qualifications:		
Honours degree (1 st , 2.1 or equivalent), and/or Masters degree in the area of Electrical/Electronics, Computer Science and Engineering, Robotics, Embedded Systems, Mechatronics or related fields	E	A
Experience:		
Some experience of relevant research methods	D	A/I
Experience of working with industrial partners	E	A/I
Experience in Wireless Sensor Networks/ Mesh Networks	D	A/I
Experience of programming in C/C++ or embedded platforms/related design tools.	E	A/I
Experience specific to project/area, e.g. experimental methods	E	A/I
Skills and Knowledge:		
Knowledge specific to project/area	E	A/I
Good computer programming skills	E	A/I
Good hardware design/prototyping skills	D	A/I
Ability to conduct original and desk-based research in the subject area	E	A/I
Excellent written communication, including the ability to write reports and research outputs	E	A/I
Ability to prioritise own workload and work to specified deadlines under pressure	E	A/I
Competencies and Personal Attributes:		
Flexible approach to workload	E	I
Ability to work on own and as part of a team	E	A/I
Enthusiasm and commitment	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	SS	HRBP	SP
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