



UNIVERSITY OF
LINCOLN

UNIVERSITY OF LINCOLN JOB DESCRIPTION

JOB TITLE	Research Assistant – Engineering & Physical Sciences				
DEPARTMENT	School of Engineering and Physical Sciences				
LOCATION	Lincoln Campuses				
JOB NUMBER	CHS197	GRADE	6	DATE	March 2025
REPORTS TO	Principal Investigator: Dr Aleksander Radu, Co-I: Dr Faiz Iqbal				

CONTEXT

We have got an exciting interdisciplinary project which will provide excellent research challenges to interested candidates. These challenges will sit at the interface of chemical sensors for Agri-Tech applications, requiring significantly diverse skills from sensor interfacing to data acquisition requiring both embedded hardware and software to then further enable dashboard development using latest digital technologies for real time data visualisation and analytics.

JOB PURPOSE

The candidate will be employed to work with the multidisciplinary research team interfacing between Schools of Engineering & Physical Sciences and School of Natural sciences. The work will support the project team of the Soil-Sensor project, liaise with other team members of the project to successfully deliver the milestones. You will also assist the publication related work in the project.

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 and Co Investigators, to generate original knowledge, contribute to decisions about research direction, and to prepare reports on results, as required. The research assistant will not be expected to act as an independent researcher.

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, paper publications, and preparation for and presentation in front of the funders for regular monitoring meetings.

Liaison and Networking

Liaise with internal and external collaborators, and with colleagues in the two Schools, maintaining positive and effective working relationships.

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

PhD

If work develops successfully further, efforts will be made for funding and if secured, enrolment into PhD is feasible.

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• Co-Investigator• Other academic staff within the schools if needed for collaboration reasons• Other RA on the project	<ul style="list-style-type: none">• Research collaborators• Sponsors and clients



**UNIVERSITY OF LINCOLN
PERSON SPECIFICATION**

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Selection Criteria	Essential (E) or Desirable (D)	Where Evidenced Application (A) Interview (I) Presentation (P) References (R)
Qualifications:		
Degree in relevant subject (1 st , 2.1 or equivalent), and a Masters degree both related to Engineering discipline in a broader sense.	E	A
Experience:		
Some experience of relevant research publications in similar area.	D	A/I
Experience specific to project/area i.e., previous work on dashboard development, sensor integration, data acquisition, real time data communication and visualisation	E	A/I
Skills and Knowledge:		
Knowledge specific to project/area	E	A/I
Ability to conduct original research under supervision 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
Ability to communicate complex subjects to students	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	AR	PBP	AH
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