



Job Title: Research Assistant in Intelligent Systems

Unit/School: Cardiff School of Technologies

Grade: 4A/B

HERA: RIS007

## Core purpose of role

This role will support the research and innovation work of the School by assisting the project team in a variety of ways, including data collection and analysis. This role will contribute to a research project focused on the development and evaluation of intelligent sensing and AI-enabled systems to support improved hygiene practices and food safety compliance. The postholder will support the design, implementation, and testing of sensor-based and embedded technology systems used to monitor and analyse behavioural and environmental data in controlled and real-world settings. Working within the Cardiff School of Technologies, the Research Assistant will collaborate with academic researchers and multidisciplinary partners to assist with system prototyping, experimental testing, and data analysis related to intelligent sensors, machine vision, and AI-driven monitoring solutions. The role will contribute to advancing applied research in intelligent systems for public health and food safety applications.

## Key responsibilities and contributions

- Support the research project design, field work and data collection in consultation with the Principal Investigator against agreed objectives.
- Conduct individual or collaborative data collection (e.g., experiments, interviews, observations).
- Develop and deploy basic research techniques under the supervision of the project leader.
- Use rigour, initiative and creativity in analysing and interpreting research data and draw appropriate conclusions.
- Co-ordinate own work alongside that of others, working to deadlines and manage competing priorities.
- Deal with problems which may affect the achievement of research objectives and contribute to the planning of future project(s).
- Present information on research progress and outcomes to the Principal Investigator and groups overseeing the research project.



- Write up results from own research activity and provide input into the research project's dissemination.
- Ensure that personal knowledge in the relevant field of study is kept up to date by undertaking training and development activities to enhance capacity for taking on wider responsibilities.
- To be knowledgeable of the current state of research through undertaking literature reviews and monitoring new developments in the field of study.
- To write up the results and contribute to the drafting and submission of papers to appropriate peer reviewed journals.
- Support the principal investigator on all matters related to the project as necessary and as appropriate and commensurate with the grade.

## **Person specification**

### **Essential qualifications / Professional memberships**

- An honours degree (2:1 or above) in a relevant subject area of work or equivalent.

### **Essential experience, knowledge and skills**

1. Knowledge of research methods the appropriate setting.
2. Knowledge and understanding of the subject area principles.
3. Knowledge of ethics governance in Higher Education.
4. Ability to conduct high quality research in the relevant discipline / field.
5. Ability to conduct, analyse and interpret qualitative and / or quantitative research.
6. Ability to identify areas for improvement using initiative and problem-solving skills to improve the accuracy of the models.
7. Good level of analytical skills.
8. Ability to use Microsoft Office.
9. Strong interpersonal skills with an ability to communicate and relate to a variety of academics and professionals at different levels through reports, both orally and in writing.
10. Self-motivated and well organised.



- 11. Evidence of completed research projects.
- 12. Willingness to travel and operate between campuses as required for the success of the research project.

**Desirable**

- 1. Have, or working towards, a postgraduate degree.
- 2. Experience of working on a research project within a multidisciplinary research environment.
- 3. Presenting experience (to small and large audiences).

**Welsh skill requirements**

Welsh is essential to our students and staff and is a key part of our provision and services. For every position at Cardiff Met, proficiency in Welsh language is either essential or desirable. You can find information about the levels by viewing our booklet: [Welsh language skills levels](#). If a skill is listed as essential in the table below, please ensure you demonstrate this in your online application form.

Language level and general descriptor	Listening	Reading	Speaking	Writing
<b>A1 – Beginner</b> Can understand and use familiar everyday expressions and very basic phrases in Welsh.	Desirable	Desirable	Desirable	Desirable
<b>A2 - Basic user</b> Can deal with simple, straightforward information and communicate in basic Welsh.				
<b>B1 - Intermediate user</b> Can communicate, to a limited level, in Welsh about things that are familiar and/or work related.				
<b>B2 - Upper intermediate user</b> Can express myself in Welsh on a range of topics and understand most of a conversation with a native speaker.				
<b>C1 - Fluent user</b> Can communicate fluently in Welsh.				
<b>C2 - Master user</b>				



Can communicate fluently on complex and specialist matters in Welsh.				
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**Disclosure & Barring Service requirements**

This post does not require a DBS check.

**Supporting information**

The University is a dynamic organisation and changes may be required from time to time. This job description and person specification is not intended to be exhaustive.

The University is committed to the highest ethical and professional standards of conduct. Therefore, all employees are expected to have due regard for the impact of their personal behaviour and conduct on the University, students, colleagues, business stakeholders and our community. Each employee must demonstrate adherence to our Code of Professional Conduct. In addition, all employees should have particular regard for their responsibilities under Cardiff Metropolitan University’s policies and procedures.