



Job Title: Senior Research Assistant: *EMC-META-CLOAK project*

Unit/School: Cardiff School of Technologies

Grade: 5 A/B

HERA: RIS008

Core purpose of role

This role will support the research and innovation work of the School by assisting the project team in contributing to high quality and impactful research. More specifically, the role will contribute to high standards of data collection and analysis, collaborating with key stakeholders to ensure the success of the research project.

The Postholder will contribute to the EMC-META-CLOAK project. The aim of the project is to develop and experimentally validate a predictive, model-assisted conformance testing methodology for Ka-band RF-scattering from arbitrary conformal metasurface cloaks. This methodology will directly support low-observability, measure scattering behaviour across the geometries, incidence angles, and material configurations relevant to aircraft structures.

Key responsibilities and contributions

- Undertake data collection through a variety of appropriate qualitative and / or quantitative methods.
- Analyse and interpret qualitative and / or quantitative data, design interventions and report on findings through relevant media, including the creation of research reports.
- Support the research project, in collaboration with the University and relevant management teams.
- Act as a point of contact for participants, external partners, and other stakeholders in relation to this project.
- Provide recommendations to the research team and relevant project partners based on relevant research findings.
- Conduct a critical literature review specific to this project.
- Support the formulation of academic papers for journals, conference presentations and reports.
- Ensure confidentiality about project ideas, and maintain research ethics and professional standards in dealings with internal and external parties.
- Engage with the School/Unit administration team and ensure that we adhere to external reporting requirements.



- Support the drafting of ethics applications where needed.
- Create and complete risk assessments for the project's data collection for relevant sign off.
- 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

- A postgraduate degree in a relevant subject area of work or equivalent.

Essential experience, knowledge and skills

1. Knowledge of research ethics and governance processes to be able to draft research ethics and governance applications in the relevant area.
2. Experience of designing and conducting research using quantitative and/or qualitative research methods relevant to the research project area.
3. Knowledge of how to present research data in appropriate formats for both academic and professional audiences.
4. Knowledge of GDPR processes for managing data to ensure data protection and confidentiality of personal data.
5. Ability to conduct critical literature reviews for both academic and professional audiences and publications.
6. The skills and ability to conduct research in the relevant area and report on / make recommendations from findings.
7. Strong interpersonal skills with an ability to communicate and relate to a variety of academics and professional stakeholders at different levels through reports, in meetings or by presentations.
8. Self-motivated and well organised.
9. Analytical and problem-solving skills.
10. Experience of analysing data qualitatively and/or quantitatively reporting on findings and providing evidence-based recommendations.
11. Experience of using analytical computer software systems e.g. NVIVO and/or SPSS.



12. Willingness and ability to travel to off campus locations.

Desirable

1. Knowledge of how to identify, co-author and submit funding applications under the supervision of senior staff.
2. Experience of working in/contributing to, an Early Career network/context.
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
A1 – Beginner Can understand and use familiar everyday expressions and very basic phrases in Welsh.	Desirable	Desirable	Desirable	Desirable
A2 - Basic user Can deal with simple, straightforward information and communicate in basic Welsh.				
B1 - Intermediate user Can communicate, to a limited level, in Welsh about things that are familiar and/or work related.				
B2 - Upper intermediate user Can express myself in Welsh on a range of topics and understand most of a conversation with a native speaker.				
C1 - Fluent user Can communicate fluently in Welsh.				
C2 - Master user Can communicate fluently on complex and specialist matters in Welsh.				



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.