



Candidate Information

Position:	Research Fellow (Molecular Epidemiology) Maternity Cover - Part-time
School/Department:	School of Medicine, Dentistry and Biomedical Sciences
Reference:	25/112436
Closing Date:	Monday 28 April 2025
Salary:	£39,922 per annum (pro-rata)
Anticipated Interview Date:	Wednesday 14 May 2025
Duration:	12 months

JOB PURPOSE:

This post, providing temporary maternity cover for up to 9 months, involves working with a multi-disciplinary, multi-centre team conducting molecular analyses associated with health, social, and / or environmental outcomes.

The proposed project involves data analysis of rich datasets with multi-omic measures using a range of bioinformatic approaches. Genome-wide SNP-based data, epigenome-wide methylation data, and transcriptomic data is already available to support analyses as part of cross-country molecular analyses.

The post may involve liaising with international collaborators, supporting undergraduate and postgraduate students, collating existing data, coordinating meetings and workshops, bioinformatic analysis of data, integrating datasets, preparing regular summary reports, and taking the lead writing academic outputs and research dissemination.

MAJOR DUTIES:

1. To assist in developing a detailed project plan to meet research objectives in accordance with best practice.
2. To conduct research under supervision within the research project and assist with the preparation of project evaluation reports.
3. To support undergraduate and postgraduate research students progressing their projects.
4. To prepare and review submissions for consideration by relevant research ethics committees.
5. To prepare and review submissions for consideration for data access committees.
6. To maintain continued quality assurance & curation of data generation, collation, analysis, and preparation for public archiving.
7. To promote data harmonisation procedures across international cohorts and participate in working groups within consortia.
8. To conduct statistical and bioinformatic analysis of multi-omic datasets with an emphasis on genetic, epigenetic and transcriptomic analyses using cross-sectional and longitudinal study designs.
9. To summarise relevant data harmonisation requirements and ensure data is compliant with ethical and governance requirements.
10. To keep abreast of the research field and relevant developments.
11. To prepare regular summary reports for the project team and communication to stakeholders.
12. To prepare, in consultation with the project team, material for publication in national and international journals, and presentations at national and international conferences.
13. To assist with the development and submission of associated grant applications.
14. To provide expert advice on own subject specialism to staff and students.
15. To carry out routine administrative tasks associated with this research project to ensure the project is completed on time and within budget.
16. To read academic papers, journals and textbooks to keep abreast of developments in the field and appropriately guide junior members of the team.

ESSENTIAL CRITERIA:

1. Have or about to obtain* PhD in relevant discipline (*PhD to be submitted within 3 months of the closing date for the post).
2. Substantial research experience and skills relevant to this project.

3. Experience formally supervising undergraduate and / or postgraduate research students.
4. Experience preparing paperwork for consideration by research ethics and / or data access committees.
5. Experience working with multi-omic data, and / or statistics for molecular biology, and / or molecular bioinformatics or other fields relevant to the post.
6. Demonstrated experience of research methods and techniques pertinent to molecular epidemiology using a range of methodologies.
7. Experience of using data analysis packages relevant for molecular epidemiology.
8. Experience of project management, delivering research outcomes, and proven ability to work in a multi-disciplinary environment as part of a research team.
9. Good external presentation and publication track record commensurate with the stage of career.
10. Excellent IT skills e.g. Microsoft Office suite.
11. Excellent organisational and leadership skills.
12. Excellent inter-personal skills.
13. Excellent oral and written communication skills.
14. Evidence of ability to write reports and meet deadlines.
15. Evidence of ability to deal competently with administrative tasks and contribute to broader management tasks.
16. Clear and confident communicator.
17. Ability to give formal presentations.
18. Ability to work independently and on own initiative.
19. Ability to act decisively and confidently.
20. Access to transport or ability to meet the mobility requirements and a willingness to travel to meet the needs of the post.
21. Ability to work outside normal hours when necessary.

DESIRABLE CRITERIA:

1. First or Upper Second Class Honours Degree in a relevant discipline, a Master's degree and / or relevant professional qualification.
2. Experience working with relevant international data protection guidelines and requirements.
3. Experience conducting epigenome-wide association studies.
4. Experience working as part of international networks / consortia for multicentre projects.
5. Experience conducting multi-omic analysis with a focus on SNP, methylation and transcriptomic datasets.
6. Experience developing a funding proposal.
7. Experience preparing paperwork for consideration by research ethics and data access committees.
8. Proven ability to participate in or initiate collaborative research.
9. Evidence successfully managing resources.
10. Evidence of having co-ordinated a research project to successful completion.
11. Strong commitment to a career in Research.

ADDITIONAL INFORMATION:

Informal enquiries may be directed to: Jill Kilner at j.kilner@qub.ac.uk