

Job Title: Epidemiologist/Statistician Postdoctoral Research Associate
Grade: 7
Salary: £34,804 to £40,322 per annum
Department: Health Sciences
Hours/Contract: Full time or part-time (minimum 0.6FTE) or job-share will also be considered
Reference: 1577

Role Purpose

To undertake analyses and curation of rich epidemiological datasets and address epidemiological research questions contributing as a team member to the wider program of research led by Prof. Martin Tobin and Prof. Louise Wain. This will involve contributions to original epidemiological research using unique “big data” from local studies (particularly the EXCEED study) as well as from collaborative national and international studies, including BREATHE, the national Respiratory Digital Innovation Hub. It will also involve contributions to strengthening of research infrastructure and the design and development of new studies. You will be contributing to a team undertaking large-scale epidemiology and genetic epidemiology studies for a range of traits, including respiratory disease, cardiovascular disease, multimorbidity and drug response.

Resources Managed

You will supervise junior members of staff and research students, and assist the Principal Investigator in applications for research funding and in aspects of managing the grant portfolio.

Main Duties and Responsibilities	% Time
<p>Principal Accountabilities:</p> <p>The research associate will take a senior role in statistical analyses of epidemiological datasets and in leading epidemiological research within the research team led by Prof. Martin Tobin and Prof. Louise Wain.</p> <p>Specifically you will:</p> <p>Lead in-depth epidemiological analyses. This will involve leading curation of phenotype data (EXCEED study, UK Biobank and other cohort studies), employing statistical approaches, development and application of relevant methods, version control, and report-writing.</p> <p>Making significant contributions to journal papers, where appropriate as lead author.</p> <p>Contribute to innovative research developments that will advance understanding of the genomic determinants of human diseases, using strategic vision, supervisory skills, innovative ideas and high-level research skills as an experienced researcher working at the interface of statistics, epidemiology and other disciplines in biomedicine. This could include EXCEED research platform development, study design, research proposal development and the writing of grant applications;</p> <p>Contribute to the international profile of the team by presenting research to research teams, local audiences and international conferences and by contributing to the research of the international consortia with which the team is linked;</p> <p>Co-supervise junior members of staff and research student(s) and provide advice and</p>	<p>40</p> <p>20</p> <p>20</p> <p>10</p> <p>5</p>



<p>guidance to other members of the team and to collaborators;</p> <p>Contribute to broader team goals such as public outreach or the development of new advanced teaching materials based on novel research.</p> <p><i>You will be expected to devote approximately 20% of their time to continuing professional development, which will be divided among the areas described above in proportions that relate to the skills and development needs of the postholder.</i></p>	5
<p>Internal and External Relationships</p>	
<p>Communicate with academic and research staff in a highly multidisciplinary team, as well as external academic and industry collaborators, such as those in BREATHE, the Respiratory Digital Innovation Hub.</p>	
<p>Planning and Organising</p>	
<p>You will develop new projects and will plan up to 4 months ahead to ensure the research is delivered in accordance with the overall research objectives and deadlines. This may include effective delegation of tasks, completion and timely revision of research papers, and will occasionally involve adaptation of plans and rapid responses to meet the needs of research collaborations and consortia.</p>	
<p>Qualifications, Knowledge and Experience</p>	
<p>Essential</p> <ul style="list-style-type: none"> • PhD in medical statistics, biostatistics, epidemiology or related discipline (already awarded or award expected within 3 months)* • Experience in statistical analysis of epidemiological datasets* • Experience in data science* • Evidence of statistical or bioinformatic programming knowledge and experience* • Experience of involvement in innovative, high-level research • Evidence of high-quality research productivity (including high-quality research publications)* <p>Desirable</p> <ul style="list-style-type: none"> • Experience of analysis of large-scale datasets • Experience of applying techniques used in epidemiology, statistics and data science to electronic healthcare • Knowledge and experience of analysis and coding of healthcare records (e.g. HES or Read codes) • Knowledge of disease ontologies; • Evidence of personal development of subject expertise; • Experience of Linux, scripting and use of a High Performance Computing Linux cluster 	





Skills, Abilities and Competencies

Essential

- High level of proficiency in English, sufficient to undertake research, teaching and administrative activities utilising English Language materials and to communicate effectively with staff and students*
- Ability to work independently and also as part of a research team
- Excellent written * and oral communication skills
- Effective interpersonal skills
- Effective planning and organisational skills
- To demonstrate research potential and enthusiasm of the subject area and deliver high quality research (shown by appropriate publications)
- Excellent time management skills in order to meet deadlines
- Ability to supervise research students and junior staff as required
- Strong quantitative and computational skills, including statistical programming (in ideally R, STATA experience also acceptable)*

****Criteria to be used in shortlisting candidates for interview***

Criminal Declaration

If you become an employee, you must inform your manager immediately, in writing, if you are the subject of any current or future police investigations/legal proceedings, which could result in a criminal offence, conviction, caution, bind-over or charges, or warnings.

VITAL

The University encourages all staff to live our [VITAL values](#) which are:
Valuing People, Innovators, Together, Accountable, Leaders.

Equality and Diversity

We believe that equality, diversity and inclusion is integral to a successful modern workplace. By developing and implementing policies and systems that challenge stereotypes across all aspects of our work, we have a culture that recognises and values the diverse contributions of our staff which benefits everyone. Our strong values of inclusivity and equality support our efforts to attract a diverse range of high quality staff and students, and identify our University as a progressive and innovative workplace that mainstreams equality, diversity and inclusion.

