

RESEARCH FELLOW



Job Title:	Research Fellow in Biostatistics
Department:	Public Health Environments and Society
Faculty:	Public Health and Policy
Location:	15-17 Tavistock Place
FTE:	1.0 FTE
Grade:	G6
Accountable to:	Prof Antonio Gasparrini
Job Summary:	<p>We are seeking a talented and highly-motivated researcher to join the Environment & Health Modelling (EHM) Lab (https://www.lshtm.ac.uk/ehm-lab) led by Prof Antonio Gasparrini. The successful candidate will work on the project CONNECT – Cohort and environmental data integration for epidemiological innovation, funded by the Wellcome Trust. The CONNECT project offers the opportunity to work with the largest population-based UK cohorts, such as UK Biobank, CPRD, and OpenSAFELY, and to develop and apply the new generation of analytical methods to study environmental health risks and climate change. The post will provide opportunities for interactions with research networks such as the Centre of Data and Statistical Science for Health (DASH) (https://www.lshtm.ac.uk/dash) and the Multi-City Multi-Country Collaborative Research Network (https://mccstudy.lshtm.ac.uk/).</p> <p>The ideal candidate must have a postgraduate (ideally doctoral) degree in a relevant topic and established experience in environmental epidemiology, preferably including the management and analysis of large-scale cohorts. The job requires strong skills in statistical inference and probability, and knowledge of designs and analytical methods for cohort studies. The candidate must have substantial experience with the R software for epidemiological analyses.</p>

General Information

The London School of Hygiene & Tropical Medicine (LSHTM) is one of the world's leading public health universities.

Our mission is to improve health and health equity in the UK and worldwide; working in partnership to achieve excellence in public and global health research, education and translation of knowledge into policy and practice.

Staff and students are committed to helping create a more healthy, sustainable and equitable world for everyone, because we believe our shared future depends on our shared health.

We embrace and value the diversity of our staff and student population and seek to promote equity, diversity and inclusion as essential elements to improve health worldwide. We believe that when people feel respected and included, they can be more creative, successful, and happier at work. While we have more work to do, we are committed to building an inclusive workplace, a community that everyone feels a part of,

which is safe, respectful, supportive and enables all to reach their full potential.

To find out more please visit our [Introducing LSHTM page](#).

Our Values

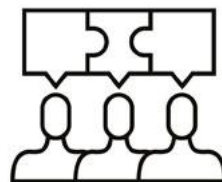
Our values establish how we aspire to achieve our mission both now and in the future - demonstrating what it means to work and study at LSHTM. Please visit our [LSHTM Values page](#) for further information.



**Act with
integrity**



**Embrace
difference**



**Work
together**



**Create
impact**

Faculty Information

Faculty of Public Health and Policy

The Faculty of Public Health and Policy (PHP) aims to improve health in the UK and worldwide. We do this through research, teaching and consultancy in the areas of health policy, health systems and services, and public health. We run a range of popular and respected MSc courses, research degrees, short courses and CPD.

The faculty has around 250 academic staff, 50 Professional Services staff, and 250 doctoral students. We are the largest multi-disciplinary public health group in Europe, and one of the largest groups world-wide of social scientists working on health. We use multidisciplinary and multi-method approaches to generate new knowledge to improve health in specific contexts and inform transferability of approaches across contexts. We engage with people, policymakers and service providers to ensure our research is inclusive, relevant, and informs policy and practice.

Our research, teaching and consultancy are inter-disciplinary, encompassing anthropology, economics, epidemiology, geography, history, international relations, mathematics political science, psychology, public health medicine, sociology and statistics.

The faculty is fully committed to the Athena SWAN Charter and holds a silver award.

PHP is made up of three departments:

- Department of Global Health and Development which focuses on health policy and systems research, economic evaluation, gender violence and violence in childhood, and medical humanitarianism, all primarily in low and middle income settings.
- Department of Health Services, Research and Policy which focuses on improving the quality, organisation and management of health services and systems.
- Department of Public Health, Environments and Society which focuses on the social and environmental influences on health and how these are addressed.

Department of Public Health, Environments and Society (PHES)

The Department of Public Health, Environments and Society (PHES) focuses on the social and environmental determinants of health and the evaluation and analysis of public health policies and interventions.

We have a strong multi-disciplinary focus, with researchers from the fields of epidemiology, health economics, health promotion, history, international relations, geography, mathematical modelling, medicine and ethics, political science, sociology, anthropology and statistics, among others. Our research programme includes work in both high and low income countries, and integrates environmental, social and policy issues at international, national and local levels.

General research interests and strengths include drugs, alcohol, violence and health behaviour; globalisation; public health history; sexual and reproductive health; food and transport systems; HIV and other infectious diseases (including COVID-19); young people's health; evaluating the health impacts of social and public health interventions; the commercial determinants of health (CDOH); built environments and health; and environmental epidemiology, planetary health and climate change.

We have more than 30 research students working towards PhD and DrPH degrees across the breadth of our research interests. Staff also contribute to the school's Master's Degree Teaching Programme, in particular the MSc Public Health.

The portfolio of duties outlined below will vary in accordance with the academic expectations of the role, which may be varied from time to time, and agreed at your annual Performance and Development Review (PDR).

Job Description

Main Activities and Responsibilities

Knowledge Generation

1. To undertake high quality research & scholarship, including contributing to drafting major grant proposals and/or leading on drafting small grant proposals, and evaluating teaching practice;
2. To contribute to peer-reviewed publications and other outputs, including as lead author;
3. To make a contribution to doctoral student supervision, as appropriate to qualifications and experience;
4. To manage small grants or elements of larger grants, ensuring compliance with good practice in relation to the conduct of research, the ethics policy and other relevant LSHTM policies.
5. To contribute to the development of novel designs and statistical methods applicable in environmental epidemiology, in particular in the context of individual-level studies of large-scale cohorts.
6. To perform epidemiological analysis and author peer-reviewed publications under the direction of the line manager.
7. To manage and link large-scale cohort databases with environmental and climatological information.
8. To contribute to research projects and activities of the EHM-Lab.

Education

1. To contribute to the delivery of high quality, inclusive, research-informed teaching and assessment in relation to your specific subject and within the broader area covered by your department and disciplinary field;
2. To contribute to the improvement of the quality of LSHTM's education, by participating in the development of new and updated learning and teaching materials or approaches.
3. To contribute to MSc teaching modules and other courses led by the line manager.

Internal Contribution

1. To undertake activities that support the Department, Faculty, MRC Unit or LSHTM;
2. To reflect LSHTM's EDI goals in your work and behaviour;
3. To participate in LSHTM's PDR process.
4. To take coordination roles within the team and contribute to activities and events led by the EHM-Lab.

5. To contribute to activities of existing groups and centres at LSHTM, in particular the Centre on Data and Statistical Science for Health (DASH).

External Contribution

1. To demonstrate good external citizenship by contributing to learned society/conference events, journal and grant reviews etc;

Professional Development and Training

1. To keep up to date with the latest research/thinking in your academic field and with changes to pedagogic practice within LSHTM and more generally;
2. Where the length and nature of the position permits, to apply for and, if accepted, undertake a doctoral degree (if not already acquired);
3. To undertake and successfully complete the mandatory training required by LSHTM as appropriate to the role.
4. To undertake training in epidemiological and statistical methods through internal MSc modules and external courses.

General

All academic staff are free within the law to question and test received wisdom, and put forward new ideas and controversial or unpopular opinions, to enable LSHTM to engage in research and promote learning to the highest possible standards.

All staff at LSHTM are also expected to:

1. Act at all times in LSHTM's best interests;
2. Treat staff, students and visitors with courtesy and respect at all times;
3. Comply fully with LSHTM policies, procedures and administrative processes relevant to the role, including when acting as Principal Investigator, accepting academic, managerial, financing and ethical responsibility for a project
4. Uphold and support LSHTM's values (as set out in the LSHTM Strategy);
5. Act as ambassadors for LSHTM when hosting visitors or attending external events.

Academic Expectations

All academic roles have a statement of academic expectations attached to each level. Please ensure that these have been read and understood. For further information please refer to the [Academic Expectations page](#).

The above list of duties is not exclusive or exhaustive and the role holder will be required to undertake such tasks as may reasonably be expected within the scope and grading of the role.

Role descriptions should be regularly reviewed to ensure they are an accurate representation of the role.

Person Specification

This form lists the essential and desirable requirements needed by the post holder to be able to perform the job effectively.

Applicants will be shortlisted solely on the extent to which they meet these requirements.

Essential criteria:

1. A postgraduate degree, ideally a doctoral degree, in a relevant topic.
2. Relevant experience in biostatistics, epidemiology, and environmental health research.
3. Contributions to written output, preferably peer-reviewed, as expected by the subject area/discipline in terms of types and volume of outputs.
4. Proven ability to work independently, as well as collaboratively as part of a research team, and proven ability to meet research deadlines.
5. Evidence of excellent interpersonal skills, including the ability to communicate effectively both orally and in writing
6. Evidence of good organizational skills, including effective time management.
7. Training in inferential techniques and study designs for epidemiology.
8. Knowledge and experience of methods applied in cohort studies of environmental risks, such as time-to-event analyses and Cox proportional hazard models.
9. Established experience with linkage, management, and analysis of large-scale cohort databases.
10. Advanced skills in the R software environment and its use in real-data analysis, particularly for environmental epidemiological analyses.

Desirable Criteria

1. Some experience of contributing to research grant applications.
2. Some experience of teaching and assessment.
3. Some experience of supervising and supporting junior researchers and/or research degree students, and non-academic staff.
4. Strong knowledge of estimation theory in statistics, including probability theory, sampling techniques, and their applications in biostatistical research.
5. Experience with accessing and performing analyses in cloud-based cohort data platforms linking individual-level electronic health records.
6. Knowledge of other programming languages for data science, such as Python or SQL.

Salary and Conditions of Appointment

The post is full-time 35 hours per week, 1.0 FTE and fixed term for 24 months. The post is funded by the Wellcome Trust and is available from 01 October 2025. The salary will be on the LSHTM salary scale, Grade 6 in the range £45,097 - £51,156 per annum pro rata (inclusive of London Weighting).

The post will be subject to the LSHTM terms and conditions of service. Annual leave entitlement is 30 working days per year, pro rata for part time staff. In addition to this there are discretionary "Wellbeing Days". Membership of the Pension Scheme is available.

LSHTM has a Hybrid Working Framework, which alongside agreed service requirements, enables teams to work more flexibly (if the role allows), promoting a greater wellbeing and work/life balance.

Application Process

Applications should be made on-line via our [jobs website](#). Applications should also include the names and email contacts of 2 referees who can be contacted immediately if appointed. Online applications will be accepted by the automated system until 10pm of the closing date. We regret that late applications cannot be accepted. Any queries regarding the application process may be addressed to jobs@lshtm.ac.uk.

The supporting statement section should set out how your qualifications, experience and training meet each of the selection criteria. Please provide one or more paragraphs addressing each criterion. The supporting statement is an essential part of the selection process and thus a failure to provide this information will mean that the application will not be considered. An answer to any of the criteria such as "Please see attached CV", "Yes" or "No" will not be considered acceptable and will not be scored.

Please note that if you are shortlisted and are unable to attend on the interview date it may not be possible to offer you an alternative date.

Asylum and Immigration Statement

LSHTM will comply with current UKVI legislation, which requires all employees to provide documentary evidence of their legal right to work in this country prior to commencing employment. Candidates will be required to email a copy of their passport (and visa if applicable) to HR prior to their interview and if appointed will be asked to bring the original documents in to be copied and verified before their start date.

Applications from candidates who require sponsorship to work in the UK will be considered alongside other applications. Applicants who do not currently have the right to work in the UK will have to satisfy UK Visas & Immigration regulations before they can be appointed.

Further information about Sponsorship and eligibility to work in the UK, can be found on the [government immigration rules page](#).

Date amended: Jan 2024