

ASSISTANT PROFESSOR OR ASSOCIATE PROFESSOR



Job Title:	Assistant Professor or Associate Professor
Department:	Infectious Disease Epidemiology and Dynamics
Faculty:	Epidemiology and Population Health
Location:	London
FTE:	1.0
Grade:	Assistant Professor Grade 7 or Associate Professor Grade 8
Accountable to:	Sebastian Funk
Job Summary:	The post-holder will lead the development, validation and implementation of state-of-the-art computational tools (predominantly in R) for outbreak analysis and response. The main duty will be to take a leading role in associated software development and generation of research outputs for validation of the tools. Additional tasks will include engaging with collaborators to support the implementation of the tools; and collaborating with partners on the development of training materials and other tools such as the ones that are being developed as part of the hubverse project for infectious disease modelling hubs.

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

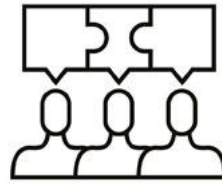
Our values establish how we aspire to achieve our mission both now and in the future - demonstrating what it means to work and study at LSHTM. Please visit our [LSHTM Values page](#) for further information.



**Act with
integrity**



**Embrace
difference**



**Work
together**



**Create
impact**

Faculty Information

The Faculty of Epidemiology & Population Health (EPH) houses a large group of epidemiologists, demographers, statisticians and nutritionists working on major issues of importance to public health provision in the UK and globally. EPH employs approximately 560 people in five research departments.

- Department of Infectious Disease Epidemiology & Dynamics
- Department of Infectious Disease Epidemiology & International Health
- Department of Medical Statistics, which includes the Clinical Trials Unit
- Department of Non-communicable Disease Epidemiology
- Department of Population Health

The Faculty has a postgraduate teaching programme including eleven intensive MSc courses: Epidemiology, Demography and Health, Medical Statistics, Health Data Science, Public Health for Development (jointly with Faculties of Infectious & Tropical Diseases and Public Health & Policy), Nutrition for Global Health, Global Mental Health (jointly with Kings College London, Institute of Psychiatry), Reproductive & Sexual Health Research, Sexual & Reproductive Health Policy and Practice (online), Veterinary Epidemiology (run jointly with the Royal Veterinary College) and Climate Change and Planetary Health. There are also three distance Learning MSc courses: Epidemiology, Clinical Trials and Demography in Health. The Faculty also has approximately 120 research students studying for an MPhil, PhD or DrPH degree.

The Dean of Faculty is Professor Elizabeth Allen.

The Department of Infectious Disease Epidemiology & Dynamics (IDED) conducts research on the epidemiology and control of infectious diseases of public health importance. Work is carried out in low-, middle- and high-income countries, including the United Kingdom, in close collaboration with partners in each country. The Department has three groups:

- The infectious disease modelling group, which is linked to the Centre for Mathematical Modelling of Infectious Diseases (CMMID).
- The UK Public Health Rapid Support Team, a specialist multidisciplinary team across LSHTM and the UK Health Security Agency (UKHSA) that offers low and middle income countries around the world support to prepare for and respond to disease outbreaks, through field collaboration, research and capacity-strengthening activities.
- The Vaccine Confidence Project, which conducts global research, investigating the roots, trends over time and impacts of vaccine confidence at regional, national and sub-national levels.

The Department works closely with the Department of Infectious Disease Epidemiology & International Health.

The Department Head is Professor Mark Jit.

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

Assistant Professor

1. To deliver high quality research & scholarship in your field of study, individually and in collaboration with others, by applying for external grants/fellowships from good¹ research funders, publishing peer-reviewed outputs as lead and co-author and evaluating teaching practice;
2. To contribute to doctoral student supervision;
3. To manage research grants and promote and ensure compliance with good practice in relation to the conduct of research, the ethics policy, and other relevant LSHTM policies;
4. To support the development of early-career researchers;
5. To lead the development of software tools (predominantly in R) for outbreak analysis and response.
6. To lead the generation of research outputs that validate the tools developed.

Associate Professor

1. To deliver high quality research & scholarship in your field of study, individually and in collaboration with others, by developing and maintaining a research grant portfolio from good² research funders, publishing peer-reviewed outputs and generating and securing (where relevant) intellectual property, and evaluating teaching practice;
2. To participate in doctoral student supervision and examination;
3. To lead and manage research teams and promote and ensure compliance of self and others with good practice in relation to the conduct of research, the ethics policy, inclusivity and other relevant LSHTM policies;
4. To support the development of early-career researchers;
5. To lead the development of software tools (predominantly in R) for outbreak analysis and response.
6. To lead the generation of research outputs that validate the tools developed.

Education

Assistant Professor

1. To deliver high quality, inclusive, research-informed teaching and assessment in relation

Associate Professor

1. To deliver high quality, inclusive education and assessment in relation to your specific

¹ Good research funders are: Research Councils; Government Departments; NIHR; National and overseas charities recognised by HEFCE for QR; Overseas research councils or equivalent including NIH; EU; other agencies (eg NGOs, commercial companies) supporting commissioned research that is consistent with LSHTM's mission and meets LSHTM's cost recovery targets

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to your specific subject and within the broader area covered by your department/disciplinary field;

2. To contribute to the improvement of the quality and inclusivity of LSHTM's education, by participating in the development of new and updated learning and, teaching materials or approaches, and/or improving assessment practices, and/or improving aspects of the student experience;
3. To support educational leadership and management by active participation in selected aspects of the curriculum, as appropriate, and by collaborating with professional services staff, centrally and in the Faculty, in carrying out relevant administrative processes;

subject and within the broader area covered by your department and disciplinary field;

2. To contribute to the improvement of the quality and inclusivity of LSHTM's education, by participating in the development and review of new and updated learning and teaching materials or approaches, and/or improving assessment practices, and/or improving aspects of the student experience;
3. To support educational leadership and management by active participation in Faculty and Programme or curriculum leadership roles, as appropriate, and by collaborating with professional services staff both centrally and in the Faculty office in carrying out relevant administrative processes;

Internal Contribution

Assistant Professor

1. To undertake activities that support the Department, Faculty, MRC Unit or LSHTM, including Committee membership;
2. To reflect LSHTM's EDI goals in your work and behaviour;
3. To participate in own PDR and undertake those of others;
4. To support more junior staff working on this and related projects.

Associate Professor

1. To demonstrate good internal citizenship by undertaking PDRs and promoting staff development, and by participating in the recruitment, mentoring and support of more junior colleagues as appropriate;
2. To participate in the activities of LSHTM committees and undertake a leadership or administrative role at LSHTM/Faculty/Department/MRC Unit level, as appropriate;
3. To proactively demonstrate LSHTM's EDI goals in your work and behaviour;
4. To support more junior staff working on this and related projects.

External Contribution

Assistant Professor

1. To demonstrate good external citizenship by contributing to the external academic community;
2. To promote knowledge translation and enterprise by participating in networks and

Associate Professor

1. To demonstrate good external citizenship by linking with and supporting appropriate external organisations;
2. To promote knowledge translation and enterprise by exploiting academic knowledge

activities that disseminate research-based knowledge beyond academia;

3. To support collaborators in the implementation of the tools across jurisdictions in the US as well as elsewhere, and in the development of training materials.
4. To collaborate with other members of the project, such as on the development of tools for infectious disease modelling hubs.

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5. To support collaborators in the implementation of the tools across jurisdictions in the US as well as elsewhere, and in the development of training materials.
3. To collaborate with other members of the project, such as on the development of tools for infectious disease modelling hubs.

Professional Development and Training

Assistant Professor

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. To undertake and successfully complete the mandatory training required by LSHTM appropriate to the role;

Associate Professor

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. To undertake and successfully complete the mandatory training required by LSHTM appropriate to the role;

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's 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 the 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:

Assistant Professor

1. A doctoral degree in a relevant topic.
2. Expertise in developing software tools for analysis and modelling of infectious disease outbreaks.
3. Contributions as lead and co-author in peer-reviewed outputs, as expected by the subject area/discipline in terms of types and volume of output; significant contributions to at least four outputs within the most recent 5 years which are at least internationally excellent³.
4. Proven ability to work independently, as well as collaboratively as part of a research team, and to meet research deadlines.
5. An understanding of the strategies for improving equity and inclusion in research and/or learning and teaching.
6. Evidence of excellent interpersonal skills, including ability to communicate effectively both orally and in writing.
7. Evidence of good organizational skills, including effective time management.

Associate Professor

1. A doctoral degree in in a relevant topic.
2. Expertise in developing software tools for analysis and modelling of infectious disease outbreaks.
3. A consistent and significant track record of attracting research grant income, including salary recovery, from major research funders (PI, co-PI or leadership within a large proposal such as work-package lead).
4. A track record of contributions as lead and co-author to peer-reviewed outputs, as expected by the subject area/discipline in terms of types and volume of output; significant contributions to at least four outputs within the most recent 5 years that are at least internationally excellent⁴.
5. Proven ability to work independently, as well as collaboratively as part of a research team, including experience of supervising and supporting junior researchers and non-academic staff and proven ability to meet research deadlines.
6. An understanding of the strategies for improving equity and inclusion in research and/or learning and teaching.
7. Some experience of doctoral degree supervision.
8. Proven ability to build collaborative

³ i.e. of a quality that would be rated highly in assessments of research quality such as those done by UK government, and in peer review processes used by funders

⁴ i.e. of a quality that would be rated highly in assessments of research quality such as those done by UK government, and in peer review processes used by funders

8. Experience in leading open-source software development projects in R.
9. Experience in modelling of infectious disease outbreaks.
10. Experience in collaborating with public health partners.

- research relationships with external researchers and/or institutions, or industry (where relevant).
9. Evidence of ability to deliver high quality research-informed teaching.
 10. Evidence of excellent interpersonal skills, including the ability to communicate effectively both orally and in writing.
 11. Experience in leading open-source software development projects in R.
 12. Experience in modelling of infectious disease outbreaks.
 13. Experience in collaborating with public health partners.

Desirable Criteria

Assistant Professor

1. Experience of generating research income such as fellowships, and/or small project grants, and/or supporting grant applications of others.
2. Some experience of supervising and supporting junior researchers and/or research degree students, and non-academic staff.
3. Some experience of undertaking teaching and assessment.
4. Demonstrable evidence of promoting inclusion in research and/or learning and teaching
5. A teaching qualification.
6. Experience in at least one probabilistic programming language.
7. Experience in the evaluation of infectious disease forecasts.

Associate Professor

1. Teaching qualification (or Fellow/ Senior Fellow of HEA).
2. Experience of building and leading a research team.
3. Experience of innovation in teaching delivery and assessment and/or senior teaching management such as Programme Director, Exam Board member, Periodic Review panel member.
4. Demonstrable evidence of improving equity and inclusion in research and/or learning and teaching.
5. Experience of engagement with national and/or international research and/or policy advisory bodies.
6. Experience in at least one probabilistic programming language.
7. Experience in the evaluation of infectious disease forecasts.

E-Essential: Requirement without which the job could not be done

D-Desirable: Requirements that would enable the candidate to perform the job well

Salary and Conditions of Appointment

The post is fixed term until 29 September 2024 with the potential for an extension and is available part-time or full-time (0.6-1.0 FTE). The post is funded by a project led by University of Texas and sponsored by the US Center for Forecasting and Analytics and is available immediately. The salary will be on the Academic scale, Grade 7 (Assistant Professor) in the range £51,299 - £58,723 or Grade 8 (Associate Professor) scale in the range £62,028 - £63,752 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 **but due to the pending salary threshold changes effective 04 April 2024 applicants under certain circumstances may not**

qualify for sponsorship. 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