

Job Title:	Research Fellow
Departments:	Medical Statistics (60%) and Infectious Disease Epidemiology (40%)
Faculty:	Epidemiology and Population Health
Location:	Keppel Street
FTE:	100%
Grade:	Research Fellow Grade 6
Accountable to:	Professor Chris Frost (MSD) and Dr John Bradley (IDE)
Job Summary:	<p>Medical Statistician</p> <p>The Departments of Medical Statistics and Infectious Disease Epidemiology wish to appoint a statistician to work on a programme of statistical work linked to randomized controlled trials in India and Africa.</p> <p>The work in the Department of Medical Statistics (60%) will involve acting as the trial statistician for a cluster randomized controlled trial assessing the impact and cost-effectiveness of i) a package of maternity and newborn care and health promotion and ii) after school support to primary school age children in villages in Madhya Pradesh, India. The trial uses a design in which rural villages are randomized to receive one or other of these interventions. This research builds on previous trials conducted in Telangana, India (http://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.1002324 and http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0065775) The trial is funded by a charity, Effective Intervention. The role will entail close collaboration with the implementing partners of the two interventions, members of the research trial teams in India and at Effective Intervention, and colleagues at the London School of Hygiene and Tropical Medicine.</p> <p>40% of the role will involve collaboration with Dr. John Bradley and colleagues in the Department of Infectious Disease Epidemiology. A component of the work will be on malaria control. This will include a cluster randomised trial of the drug ivermectin to reduce the prevalence of malaria infection in Guinea Bissau and a study of insecticide-treated netting to reduce the entry of mosquitoes into houses in Tanzania.</p> <p>The successful candidate will have a postgraduate qualification in statistics. There will be opportunities for methodological research related to both these roles. The post also includes teaching of postgraduate students at LSHTM.</p> <p>The post is funded for one year in the first instance and is available immediately. The salary will be on the School's Research Fellow scale, £40,011 - £45,437 per annum inclusive of London Weighting.</p>

GENERAL INFORMATION

The London School of Hygiene & Tropical Medicine

The London School of Hygiene & Tropical Medicine is a world-leading centre for research and postgraduate education in public and global health. 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.

Founded in 1899, the School has expanded in recent years at its two main sites on Keppel Street

and Tavistock Place. Our staff, students and alumni work in more than 150 countries in government, academia, international agencies and health services.

Research income has grown to more than £180 million per year from national and international funding sources including UK government and research councils, the European Union, the Wellcome Trust, Gates Foundation and other philanthropic sources.

Our diverse research talents, skills and experience, underpin our position as a leader in public and global health. These range from the molecular to the global, the theoretical to the applied, the analytical to the political. Our staff are conducting research in more than 100 countries.

We have 3,000 staff based all around the world with core hubs in London and at the MRC Units in The Gambia and Uganda, which joined LSHTM in February 2018. Our outstanding, diverse and committed staff make an impact where it is most needed - deploying research in real time in response to crises, developing innovative programmes for major health threats, or training the next generations of public and global health leaders and researchers.

Working in partnership is central to achieving our mission. Our strategic collaborations in the UK and across high-, middle- and low-income countries deliver health and socioeconomic benefits across the world, especially in the most disadvantaged communities.

LSHTM is also a member of the M8 Alliance of Academic Health Centers, Universities and National Academies, the Association of Schools of Public Health in the European Region, and the Consortium of Universities for Global Health.

We deliver research-led educational programmes to future health leaders, managers and researchers across the world. We have more than 1,000 face-to-face Master's and Doctoral students, 3,000 studying by distance learning, and 1,000 each year on short courses and continuous professional development. Our free online courses are studied by more than 55,000 participants globally.

LSHTM performs strongly in various global university league tables. In the 2018 Shanghai World Ranking we placed 151-200 overall, and ranked 3rd in public health, 40th in clinical medicine, and 76th in human biology. In the US News Best Global Universities Ranking 2019, we ranked ninth in the UK overall and 13th in the world in the fields of social sciences and public health in the 2019 QS World University Rankings.

In 2017, the inaugural Center for World University Rankings by Subject placed LSHTM first in the world for tropical medicine research, second for parasitology and seventh for infectious diseases, public, environment and occupational health and social sciences and biomedical. LSHTM ranked first in Europe for research impact in sciences, based on its proportion of publications that belong to the top 1% most frequently cited publications, in the 2018 CWT Leiden Ranking.

LSHTM was named University of the Year 2016 by Times Higher Education and awarded a Queen's Anniversary Prize for Higher and Further Education in 2017 in recognition of our response to the 2014 Ebola epidemic in West Africa. (LSHTM does not appear in the Times Higher Education World University Rankings as universities are excluded if they do not teach undergraduates).

We seek to foster and sustain a creative and supportive working environment based upon an ethos of respect and rigorous scientific enquiry. We embrace and value the diversity of our staff and student population and seek to promote equality as an essential element in contribution to improving health worldwide.

LSHTM is one of around 20 specialist institutions that receive institution specific funding from the Office for Students (OfS). This funding recognises the additional costs that LSHTM incurs because of its unique range of teaching, specialist facilities, and the scale of its contributions to national and international agencies.

FACULTY INFORMATION

The Faculty of Epidemiology & Population Health (EPH) houses a large group of epidemiologists, demographers, statisticians and nutritionists working on issues of major public health importance in the UK and globally. EPH has approximately 400 staff members organised into four research departments.

- Department of Infectious Disease Epidemiology
- Department of Medical Statistics
- Department of Non-communicable Disease Epidemiology
- Department of Population Health

The Faculty has a teaching programme consisting of ten MSc courses: Epidemiology, Demography and Health, Medical Statistics, Public Health for Development (run jointly with the Faculties of Infectious & Tropical Diseases and Public Health & Policy), Nutrition for Global Health, Reproductive & Sexual Health Research, Veterinary Epidemiology (run jointly with the Royal Veterinary College), Global Mental Health (run jointly with Kings College London - Institute of Psychiatry) and the Distance Learning courses in 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 Liam Smeeth.

DEPARTMENTAL INFORMATION

The Department of Medical Statistics (MSD) specializes in methodological research in medical statistics, especially in relation to clinical trials, observational epidemiology and disease prevention. A recent development concerns pharmaco-epidemiologic research, both methodological and applied. The Department incorporates a Clinical Trials Research Group (concerned with planning, co-ordination, statistical analysis and reporting of clinical trials), and has a special interest in cardiovascular disease, asthma, HIV and perinatal studies. MSD has established a reputation for being one of the leading innovative centres in Europe for biostatistical methodology relevant to the planning and reporting of medical research.

The Head of MSD is Professor Elizabeth Allen, and MSD's other professors are Neil Pearce, James Carpenter, Linda Sharples, Stephen Evans, Diana Elbourne, Chris Frost, Nicholas Jewell, Stijn Vansteelandt and Stuart Pocock.

Department of Infectious Disease Epidemiology (IDE) conducts research on the epidemiology and control of infectious diseases of public health importance. It also conducts research on maternal and neonatal health. Work is carried out in low-, middle- and high-income countries, including the United Kingdom. Research ranges from ecological studies of variations in disease frequency in different populations, through observational case-control and cohort studies to define risk factors for disease, to randomized controlled trials to test the impact of specific preventive and curative interventions.

The Heads of Department are Professor Katherine Fielding and Professor Richard White.

THE MRC TROPICAL EPIDEMIOLOGY GROUP

The MRC Tropical Epidemiology Group (TEG; Director: Professor Helen Weiss), established in 1972, is a group of approximately 35 statisticians and epidemiologists based in the Department of Infectious Disease Epidemiology at LSHTM and at research centres in Africa. The group is funded by an MRC Programme Grant (to October 2023), and has an extensive research portfolio of epidemiological research in resource-poor settings covering a range of diseases of major public health importance (including HIV, TB, malaria, neglected tropical diseases and global mental health). We have an extensive network of collaborators, including the MRC Units in Uganda and The Gambia, the Aurum Institute for Health Research (Johannesburg, South Africa), the Mwanza Intervention Trials Unit (Mwanza, Tanzania), and the Wellcome Trust Bloomsbury Centre for Global Health (London UK).

Further details are available on our website: <http://teg.lshtm.ac.uk/>

The portfolio of duties outlined below will vary in accordance with the detailed expectations of the role (attached), 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 in medical statistics, individually and in collaboration with others, including potentially contributing to drafting major grant proposals and/or leading on drafting small grant proposals;
2. To contribute to peer-reviewed publications and presentation of research at scientific meetings, including as lead author;
3. To make a contribution to research degree 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 School policies.

EDUCATION

1. To contribute to the delivery of high quality, research-informed teaching and assessment in medical statistics, clinical trials and/or epidemiology;

INTERNAL CONTRIBUTION

1. To undertake activities that support the Department, Faculty or the School;
2. To participate in the School's Professional Development Review process.

EXTERNAL CONTRIBUTION

1. To demonstrate good external citizenship, such as by contributing to learned society/conference events, journal and grant review.

PROFESSIONAL DEVELOPMENT & TRAINING

1. To keep up to date with the latest research/thinking in medical statistics and with changes to teaching practice within the School 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 the School 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 the School 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 the School's best interests;
2. Treat School staff, students and visitors with courtesy and respect at all times;
3. Comply fully with School 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 School's values (as set out in the School Strategy document);
5. Act as ambassadors for the School when hosting visitors or attending external events;

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.

ESSENTIAL CRITERIA

1. MSc in Medical Statistics or equivalent.
2. A demonstrated aptitude for applied research in medical statistics.
3. Knowledge, and experience of use of, statistical packages such as Stata and R.
4. An ability to manage multiple tasks and to prioritise across them to meet deadlines.
5. Good interpersonal skills with the ability to communicate effectively in a multidisciplinary setting.
6. High quality publications in peer-reviewed journals commensurate with duration of research activity.
7. Willingness to travel.

DESIRABLE CRITERIA

1. Experience of participation as a statistician in collaborative medical research projects with non-statisticians
2. A demonstrated aptitude for methodological research in medical statistics
3. Experience of teaching at post-graduate level
4. Experience of clinical trials
5. Experience of cluster randomised trials
6. Interest in research in low and middle income countries

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 funded for one year in the first instance and is available immediately. The salary will be on the School's Research Fellow scale, £40,011 - £45,437 per annum 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 "Director's Days". Membership of the Pension Scheme is available.

Applications should be made on-line via our website at <http://jobs.lshtm.ac.uk>. Applications should also include the names and email contacts of 2 referees who can be contacted immediately if

shortlisted. Online applications will be accepted by the automated system until 10pm of the closing date. 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" will not be considered acceptable. 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

The School will comply with the Immigration, Asylum and Nationality Act 2006, 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 Certificate of Sponsorship and eligibility to work in the UK, can be found at: www.ukba.homeoffice.gov.uk/employers/points

Academic Expectations: Research Fellow

Examples of expected types of activities are listed; the selection of activities will vary from year to year and not all activities in each category would necessarily be done in any one year. The statement in each shaded heading summarises the general expectations for contributions in each category. Given the nature of employment as a Research Fellow, it is expected that most activity will focus on knowledge generation, but some activity in other areas is required and will support career progression.

<i>Knowledge generation: Independent contributions and a clear trajectory towards excellence as an academic researcher</i>
<i>Research and scholarship</i> <ul style="list-style-type: none">• Undertaking research• Working with PIs to draft grant proposals and/or leading writing of small grants, work packages or sections of larger proposals or personal fellowship applications• Contributing to peer-reviewed outputs, including as first author, as expected by the subject area/discipline in terms of types of output• Poster/oral presentations at relevant conferences, translation of research findings into educational materials• Social media contributions such as twitter, blogs, web-based media or webinars <i>Doctoral degree supervision</i> <ul style="list-style-type: none">• For RFs with Doctorate, some contribution to doctoral degree supervision is encouraged (e.g. specialist skills training; ad hoc advice; advisory committees). RFs without a Doctorate may also advise in areas of specialist knowledge¹ <i>Research management, leadership and support</i> <ul style="list-style-type: none">• Effective management of own time and activities• Management of small research grants or elements of larger grants, including management of data collection and relationships with research collaborators, support to grants management <i>Professional development</i> <ul style="list-style-type: none">• Courses and other professional development activities, referenced to RDF• To apply for and undertake a doctoral degree (if not already acquired), if contract and funding source permit;
<i>Education: Basic competence in teaching and assessment</i>
<i>Teaching and assessment</i> <ul style="list-style-type: none">• Research-informed teaching and assessment contributions (e.g. contributions to modules, MSc project supervision) <i>Educational development and innovation</i> <ul style="list-style-type: none">• Contributing to the development of new educational materials, learning opportunities or assessments approaches <i>Education leadership and management</i> <ul style="list-style-type: none">• None expected <i>Professional development</i> <ul style="list-style-type: none">• Participation in professional development activities referenced to UKPSF (e.g. HEA, PGCILT, preparation for doctoral degree supervision, shadowing more experienced colleagues)
<i>Internal contribution: Contributions to School functioning and development</i>
<i>Internal citizenship</i> <ul style="list-style-type: none">• Contributing to at least one Department, Faculty, School, or Centre event or special interest group in any one year;

¹ Such RFs are expected where the length and nature of the position permits, to apply for and, if accepted, undertake a doctoral degree (if not already acquired)

- Supporting external School collaborations/partnerships (beyond own research or education role) where relevant

School leadership and management roles

- None expected

External contribution: Contribution beyond the School

External citizenship

- Contributing to learned society/conference events, journal and grant reviews etc

Knowledge translation and enterprise: not expected but options include:

- Collecting evidence of research impact for impact case studies (e.g. policy records, correspondence with policy makers, media highlights)
- Engaging with policy/practice/industry/NGO communities and the general public
- Supporting MOOCs/OERs or other (e.g. educational) outreach