

RESEARCH FELLOW



Job Title:	Research Fellow
Department:	Disease Control
Faculty:	Infectious and Tropical Diseases
Location:	Keppel Street, London
FTE:	1.0
Grade:	G6
Accountable to:	Head of Department through Principal Investigator (PI) Sanni Ali
Job Summary:	<p>The Department of Disease Control seeks to appoint a Research Fellow to lead a project aiming to develop and evaluate novel epidemiological methods for measuring the effectiveness of malaria control interventions rapidly and cost-effectively.</p> <p>The post holder will be the LSHTM lead for the project and will work in collaboration with a consortium of partners at Centre National de la Recherche Scientifique (CNFRSR, Guinea), Institut de Recherche en Sciences de la Sante (IRSS, Burkina Faso) and Universite des Sciences, des Techniques et des Technologies de Bamako (USSTB, Mali).</p> <p>The post holder will be responsible for the success of the following objectives:</p> <ol style="list-style-type: none"> 1) Develop and validate novel (statistical and machine learning) methods to evaluate malaria vaccine effectiveness using a test-negative case-control design, using simulations and clinical trial data. 2) Evaluate the effectiveness of malaria vaccines when delivered through the routine immunisation programs using prospective case-control studies, 3) Evaluate the population-level impact of malaria vaccines when implemented at scale through national immunisation programs using interrupted time series analysis using time and place controls. 4) Investigate the impact of climatic factors on the spatial and temporal distribution of malaria burden. <p>The role requires strong skills and expertise in data science, statistics, and epidemiology. It provides an excellent opportunity for someone who wants to develop a career in these methodological areas.</p> <p>Experience of working on large observational health care studies is helpful, but the job could also suit someone with experience of analysing clinical trials or a background in clinical epidemiology.</p> <p>The role requires close collaboration with three postdocs on the same fellowship based in Mali, Burkina Faso, and Guinea.</p> <p>For more information, please contact Dr M Sanni Ali (sanni.ali@lshtm.ac.uk)</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

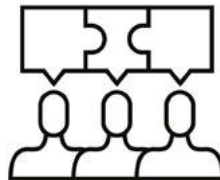
Our values establish how we aspire to achieve our mission both now and in the future - demonstrating what it means to work and study at LSHTM. Please visit our [LSHTM Values page](#) for further information.



**Act with
integrity**



**Embrace
difference**



**Work
together**



**Create
impact**

Faculty Information

Faculty of Infectious and Tropical Diseases

The vision of the Faculty of Infectious and Tropical Diseases is to deliver outstanding contributions to reduce the evolving disease burden related to infections and global health inequity. The range of disciplines represented is broad, including all laboratory-based research at LSHTM's London campus, and encompassing a "bench to boardroom" portfolio with research approaches from fundamental biology through clinical research to impact on policy and practice. It is headed by José Bengoechea, who is Professor in Microbiology and Infectious Diseases. The spectrum of diseases studied is wide; our main research interests include vector-borne diseases especially malaria; respiratory diseases including tuberculosis and bacterial pneumonia; enteric infections; HIV and other sexually transmitted infections; neglected tropical diseases including trachoma, leishmaniasis, schistosomiasis and trypanosomiasis; vaccine development and evaluation; and the prevention of blindness. The Faculty is organised into three research departments comprising: Clinical Research, Disease Control, and Infection Biology. Interdisciplinary research is a major strength, and we encourage collaboration between scientists in different research areas. The Faculty has close links with colleagues and collaborators in more than 100 countries. Our teaching programme includes MSc courses which are module in structure, both intensive taught in London and by distance learning; a variety of short courses and an active [doctoral programme](#) (PhD and DrPH). For further information on the Faculty see [here](#).

Department of Disease Control (Head: Professor Mary Cameron)

The Department of Disease Control is a multidisciplinary, cross-cutting department, operating in a global context and committed to excellence in research, innovation, learning and engagement. We have an outstanding reputation for internationally competitive research and teaching excellence, with demonstrable impact in the control of diseases, worldwide. Our diverse scientific staff comprises entomologists, epidemiologists, mathematical modellers, geographers, public health engineers, hygiene specialists, social scientists, engineers, statisticians and clinical scientists. We also have a strong team of project administrators, coordinators, managers, and communication specialists, who provide expert support to our research programmes in the UK and overseas. We are a highly collaborative Department, with extensive partnerships and collaborations with researchers from many countries and organisations around the world, as well as internally, with multiple School Departments. Our work cuts across several School Centres such as the Vaccine Centre, the Malaria Centre, Centre for Evaluation and the MARCH Centre.

Our staff play influential roles as consultants and key advisors to organisations including the WHO, CDC, Malaria Consortium, Public Health England, Department of Health, DFID, Bill and Melinda Gates Foundation, the Royal Society, Research Councils, Academy of Medical Sciences, the World Bank, Governments and private sector manufacturers and innovators, amongst many others. Our range of expertise provides us with an impressive set of tools for addressing the control of diseases that are insect-borne, water-borne or associated with poor hygiene – mostly in low- and middle-income countries. Much of our research is directed at current health policy issues and addressing gaps between policy and practice.

Teaching

LSHTM offers 20 one year full-time taught programmes leading to the Master of Science (MSc) degree of the University of London and the Diploma of the London School of

Hygiene and Tropical Medicine (DLSHTM). The Faculty of Infectious and Tropical Diseases runs or contributes substantially to nine of these MSc programmes. In addition, the Faculty is responsible for the three-month Professional Diploma in Tropical Medicine and Hygiene and the Professional Diploma in Tropical Nursing. The Faculty also offers a range of specialist short courses lasting usually one or two weeks. LSHTM offers a further six MSc programmes by Distance Learning, with the Faculty responsible for the MSc Infectious Diseases.

Research Training

The School offers two doctoral training programmes. The MPhil/PhD degrees are designed for those who wish to go on to a full time research career. The DrPH is directed towards those who expect their careers to be more in the practice of 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).

The project may involve travel to Guinea, Burkina Faso and Mali once a year/two years, conditional on country safety. The duration of the trip will be determined depending on project activities.

INFORMATION ON STUDY THE POSTHOLDER WILL BE EXPECTED TO WORK ON:

Advancing Epidemiological Methods for evaluation of malaria vaccine effectiveness and impact: novel approaches to generate evidence rapidly at low cost

The project aims to develop and evaluate novel epidemiological methods for measuring the effectiveness of malaria control interventions rapidly and cost-effectively. It will specifically measure the effectiveness and impact of the malaria vaccines implemented through national immunization programs.

The specific objectives of the project include:

1. Develop and validate novel methods to evaluate malaria vaccine effectiveness using a test-negative case-control design. This will consist in replicating the efficacy of malaria vaccines, as reported in randomised controlled trial, using a test-negative case-control study design applied to the clinical trial data; and in developing methods to detect, minimise, and quantify biases when estimating vaccine effectiveness using a test-negative design in routinely collected clinical data.
2. Evaluate the effectiveness of malaria vaccines when delivered through the routine immunization programs. This will consist in measuring the effectiveness of the malaria vaccines delivered through routine systems with or without chemoprevention, assess how effectiveness varies with age-based versus season-based schedules, intervals between doses, and the use of seasonal malaria chemoprevention; and in assessing the protection against clinical malaria provided by the fourth and fifth doses.
3. Evaluate the population-level impact of malaria vaccines when implemented at scale through national immunisation programs. This will consist in measuring the impact of the malaria vaccination program on malaria burden, all-cause mortality, uptake of other malaria interventions and childhood vaccines; in adapting mathematical models to stimulate the impact of the vaccination program on malaria burden, using vaccine effectiveness and coverage measured in routinely collected data; and in investigating the impact of climatic factors on the spatial and temporal distribution of malaria burden.

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.

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.

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.

External Contribution

1. To demonstrate good external citizenship by contributing to learned society/conference events, journal and grant reviews etc;
2. To contribute to capacity building in the collaborating institutions

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 attend training required to deliver the project

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. Experience in carrying out statistical analyses of routinely collected health care or clinical trial datasets using statistical techniques such as conditional logistic regression, survival analysis, imputation of missing data, multilevel modelling
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. Experience of using statistical software such as R and/or Python.
8. Some experience of evaluating statistical/machine learning methods using simulation studies.

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. Experience of analysing linked national clinical or administrative datasets
5. Knowledge of advanced statistical methods such as missing data methods, propensity score modelling and development and validation of machine learning models

Salary and Conditions of Appointment

The post is fixed term until 31 July 2028 and full-time 35 hours per week, 1 FTE. The post is funded by the MRC and is available immediately. The salary will be on the LSHTM scale, Grade 6 in the range £45,728 – £51,872 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 operates a Hybrid Working Framework which, alongside agreed service requirements, enables teams to work more flexibly where the role allows - promoting wellbeing and a better work/life balance. Please note that roles based in London are required to work on-site a minimum of two days per week.

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: January 2026

