

LONDON SCHOOL OF HYGIENE & TROPICAL MEDICINE

**FACULTY OF EPIDEMIOLOGY & POPULATION
HEALTH**

DEPARTMENT OF INFECTIOUS DISEASE EPIDEMIOLOGY

**LONDON
SCHOOL of
HYGIENE
& TROPICAL
MEDICINE**



**ASSISTANT PROFESSOR / ASSOCIATE PROFESSOR IN INFECTIOUS DISEASE EPIDEMIOLOGY
AND MATHEMATICAL MODELLING**

FURTHER PARTICULARS

THE SCHOOL

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 by Sir Patrick Manson, the School has expanded in recent years at its two main sites on Keppel Street and Tavistock Place. The School's multidisciplinary expertise includes clinicians, epidemiologists, statisticians, social scientists, molecular biologists and immunologists, and we work with partners worldwide to support the development of teaching and research capacity.

Research income has grown to over £85 million per year from national and international funding sources including the UK government, the European Commission, the Wellcome Trust and philanthropic sources.

Education programmes have grown to more than 1,000 London-based Master's and Research students, 2,900 studying Master's by distance learning and 1,000 on short courses and continuous professional development. We have also launched a series of free online courses, and more than 15,000 people registered on the first of these - Ebola in Context. Our staff, students and alumni work in more than 150 countries in government, academia, international agencies and health services.

The School is highly ranked in various university league tables. It was named the world's leading research-focused graduate school in the Times Higher Education World Rankings in 2013. In 2014, it was ranked in the top 10 universities in the world for citation rate by the new EU-supported U-Multirank database, fourth in the world for impact in medical sciences by the Leiden Ranking

and third in the world for social science and public health in the US News Best Global Universities Ranking. According to the results of the UK government's Research Excellence Framework, published in December 2014, the School was ranked second overall on the key measure of impact.

THE FACULTY

The Faculty of Epidemiology & Population Health (EPH) houses a large group of epidemiologists, modellers, 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 in Developing Countries (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 and Clinical Trials. The Faculty also has approximately 120 research students studying for an MPhil, PhD or DrPH degree.

The Dean of Faculty is Professor John Edmunds.

THE DEPARTMENT

The **Department of Infectious Disease Epidemiology** (Head: Dr Veronique Filippi) has over 80 academic staff who conduct research on the epidemiology and control of infectious diseases of public health importance. Work is carried out both in developing countries and in industrialized 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 randomised controlled trials to test the impact of specific preventive and curative interventions.

The Department has major field research programmes in Malawi, Tanzania, Zambia, Ghana, Brazil and Europe and numerous collaborative projects in other countries in Africa, Asia and Latin America. Major interests are in the epidemiology and control of HIV and other sexually transmitted diseases, tuberculosis and other mycobacteria, malaria and other tropical parasites, hepatitis, measles and other vaccine-preventable diseases, respiratory diseases and gastro-intestinal infections. The Department is home to the MRC-funded Tropical Epidemiology Group, and a large research programme on maternal and perinatal health. The Department includes both medical and statistical epidemiologists, and there is considerable interest in methodological work,

including research on statistical methods, transmission modelling, genetic epidemiology and immune-epidemiology. There are strong collaborative links with other Departments across all three Faculties, including with the Clinical Research and Immunology, and Public Health Policy Departments. The Department has an active research degree-training programme, with over 40 PhD students.

THE POST

Post: Associate Professor / Assistant Professor in Infectious Disease Epidemiology and Mathematical Modelling

Responsible to: Richard White (Prof, LSHTM) and Rein Houben (Assoc Prof, LSHTM)

Grade: Assistant Professor / Associate Professor

This post is for someone with strong health analytical, organizational and communication skills to join the Department of Infectious Disease Epidemiology (DIDE) at the London School of Hygiene & Tropical Medicine (LSHTM). The post holder will take the role of the TB Modelling and Analysis Consortium (TB MAC, www.tb-mac.org) Secretariat Epidemiologist/Modeller, funded by the Bill and Melinda Gates Foundation) in LSHTM's TB Modelling Group (<http://tbmodelling.lshtm.ac.uk>).
PI: White, co PIs: Vassall, Dowdy, Cohen, Houben, Eckhoff, Menzies, Gomez, and Kimerling .

TB MAC aims to increase the effectiveness and efficiency of TB control policy and practice at global and country level. To achieve this aim, TB MAC will ensure that there are strong links between TB modellers/economists and country/global TB decision makers, new high quality TB modelling resources are available to decision makers, and TB decision makers are better equipped to integrate these resources in their decision making.

This is a critical and influential role. It will give multiple opportunities to work with leaders in the field of TB modelling, on the cutting edge of the science and policy. The post holder will work closely with Richard White, Rein Houben and the other co-PIs to deliver the activities and products in line with TB MAC's mandate. The post holder will be expected to maintain effective collaborations and co-ordinate the work to meet the objectives of this consortium. The post involves a range of scientific and policy work and requires a high degree of personal initiative and communication skills. It will require working with senior modellers, epidemiologists, economists, and decision makers within WHO, GFATM, USAID, KNCV, BMGF, World Bank, KNCV, StopTB, FIND, TB Alliance, Aeras, academic, country NTP, and other organizations. It will require international travel.

KEY RESPONSIBILITIES

Assistant Professor	Associate Professor
Take on and carry out a program of work in line with TB MAC's mandate	Take on, develop and carry out a program of work in line with TB MAC's mandate
Engage and strengthen relationships with funding bodies, global and national policy makers (eg WHO and GFATM) to identify needs and disseminate work	Engage, strengthen and initiate relationships with funding bodies, global and national policy makers (eg WHO and GFATM) to identify needs and disseminate work

Participate in global consortia	As left
Maintain and build relationships with external research collaborators and internal groups	Maintain, build and initiate relationships with external research collaborators and internal groups
Contribute to the wider dissemination of scientific findings through both specialist and non-specialist publications and national and international media.	As left
Oral: Understand and convey issues of a complex and/or conceptual nature, typically not understood by non-specialists. Present specialist research findings.	Oral: Understand and convey issues of a complex and/or conceptual nature, typically not understood by non-specialist. Present specialist research findings; Negotiate and influence others' thinking
Written: Understand and convey complex, specialist or conceptual issues not immediately understood by those outside the area of work eg prepare lectures, write procedures or guidelines on complex systems or subjects; author or co-author journal articles	Written: Understand and convey complex, specialist or conceptual issues not immediately understood by those outside the area of work eg prepare lectures, write procedures or guidelines on complex systems or subjects; write articles for specialist refereed publications
Produce reports for publication in peer-reviewed journals and for presentation at national & international conferences	As left
Agree clear task objectives, organise and delegate work fairly according to individual abilities	As left
Help the team focus efforts on the task in hand and motivate individual team members as necessary	As left
Rarely, be the overall team leader/project manager ie setting the goals, directing the team and identifying what needs to be done, by when and/or be responsible for the work of several sections or units within the overall team	On occasions, be the overall team leader/project manager ie setting the goals, directing the team and identifying what needs to be done, by when and/or be responsible for the work of several sections or units within the overall team
Participate in networks within the institution or externally to influence opinion or decision making in a group or cement long term relationships	Participate in networks within the institution or externally to influence opinion or decision making in a group or cement long term relationships, and internally initiate, build or lead a network or establish communication channels.
Work with others (eg a committee or project team) in reaching collaborative decisions to begin, develop or stop significant areas of work.	Work with others (eg a committee or project team) in reaching collaborative decisions to begin, develop or stop significant areas of work. Provide advice or information to others that will influence the development of business plans or working alliances across over a significant period of time.
Plan, prioritise and organise the work or resources of yourself and others.	As left, plus, provide input to longer term planning and strategic discussions
Analyse or research complex ideas, concepts or extensive data from different perspectives. Work out how best to apply existing methodologies per the overall context, objectives and expectations, and identify the relationship between complex, interdependent factors	As left, plus, from time to time, initiate major research activity or lead investigations.

Deliver training or guide others on specific tasks or activities; give advice, guidance and feedback based on knowledge or experience	As left
Have a postgraduate qualification and show full working knowledge and proficiency in your own area of expertise	As left, plus be recognised as an authority in your field or specialism within the institution or among external peers, based on demonstrated expertise.
Liaise and collaborate with colleagues in LSHTM and other institutions	As left
Supervise postgraduate students and scientific staff, as appropriate	As left
Participate in the TB Centre and the Centre for Mathematical Modelling of Infectious Diseases at LSHTM, as appropriate	As left
Take a role in teaching at LSHTM To participate in the TB Centre and the Centre for Mathematical Modelling of Infectious Diseases at LSHTM, as appropriate	As left
Any other duties as may reasonably be required by your line manager To take a role in teaching at LSHTM	As left

PERSON SPECIFICATION

Essential	Assistant Professor	Associate Professor
	PhD or equivalent experience in a subject with a major quantitative component (please list details of quantitative PhD components/other experience)	As left
	Evidence of experience of analytical skills as related to health, especially infectious diseases, (eg design of epidemiological studies, building and managing databases, software programming, mathematical modelling)	As left
	Evidence of experience of statistical analysis of health/epidemiological data	As left
	Evidence of experience of interpreting data from health/epidemiological studies	As left
	Evidence of ability to systematically review literature and summarise information	As left
	Evidence of ability to write clearly and produce high quality written technical reports/publications	As left

	Evidence of ability to present and to verbally communicate effectively with people from a wide range of disciplines	As left
	Evidence of ability to organize oneself and groups effectively	As left
	Evidence of a publication record with respect to quantitative aspects of health problems, especially infectious diseases	As left
		Evidence of ability to negotiate and influence others' thinking
		Evidence of ability to initiate, build or lead a network or establish communication channels
		Evidence of providing input to longer term planning and strategic discussions
		Evidence of initiating major research activity or leading investigations
		Evidence of being an authority in your field or specialism
	Ability to travel to international meetings (around 5 times a year)	As left
Desirable	Evidence of experience of TB epidemiology	As left
	Evidence of experience of infectious disease epidemiology	As left
	Evidence of experience of infectious disease modelling	As left
	Evidence of experience of health economics	As left
	Evidence of group facilitation	As left
	Evidence of guidelines writing	As left
	Evidence of ability to produce high quality policy briefings	As left
	Evidence of experience of post-graduate teaching	As left

	Evidence of ability to establish and maintain collaborative links with colleagues in related disciplines	As left
	Evidence of ability to work as a team member and communicate progress to other team members	As left
	Evidence of ability to work with individual responsibility and initiative	As left
	Interest in developing new research proposals in the quantitative analysis of TB	As left

SALARY AND CONDITIONS OF APPOINTMENT

This is a full-time post, based in London at the London School of Hygiene and Tropical Medicine and tenable up to 31 December 2019. The appointment will be made on the School's Academic Pathway Assistant Professor scale, £44,226 - £50,629 per annum or Associate Professor scale, £53,477 - £61,380 per annum depending on qualifications and experience. The post will be subject to the LSHTM terms and conditions of service. Annual leave entitlement is 30 working days per year. In addition to this there are discretionary "Director's Days". Membership of the USS Pension Scheme is available.

ASYLUM AND IMMIGRATION

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 bring their passport (and visa if applicable) to interview so that it can be copied and verified.

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