

RESEARCH FELLOW

LONDON
SCHOOL of
HYGIENE
& TROPICAL
MEDICINE



Job Title:	Research Fellow in Epidemiology and One Health
Department:	Global Health and Development
Faculty:	Public Health and Policy
Location:	Phnom Penh, Cambodia
FTE:	1.0
Grade:	G6, Research Fellow
Accountable to:	Head of Department through Principal Investigator (PI)
Job Summary:	<p>We are seeking a Research Fellow to join an exciting new One Health oriented project on understanding zoonotic disease risk in relation to swine production systems in Cambodia, with a focus on influenza.</p> <p>The post-holder will be based overseas in Phnom Penh, Cambodia, working closely with local collaborators including governmental, non-governmental and academic institutions across both human and animal health sectors. They will to coordinate and support day-to-day project activities, including local training and capacity building, field surveys, sample collection from pigs and humans, data management, epidemiological analyses and dissemination of findings.</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 School is divided into three academic faculties, of which the Faculty of Public Health & Policy is responsible for research and teaching in the policy, planning and evaluation of health programmes and services. Its interests are both national and international, encompassing industrialized and low and middle-income countries. The Faculty has three research departments:

- Health Services Research and Policy (HSRP)
- Global Health and Development (GHD)
- Public Health, Environments and Society (PHES)

In the Faculty there are about 250 academic staff drawn from a variety of disciplines including medicine, statistics, epidemiology, sociology, economics, anthropology, operational research, psychology, nursing and history. Each department is responsible for its own research. The School has adopted a rotating system of management for its academic departments and faculties. The management of a department is under the control of the Department Head, appointed by the Director for a period of three years in the first instance. The Faculty Head is appointed in a similar manner but for an initial period of up to five years.

The Faculty of Public Health and Policy is responsible for organizing a one-year Master's course in Public Health, which allows students to take either a general MSc in Public Health, or to follow one of several more specialised streams: Health Services Management, Health Promotion, Environmental Health or Health Services Research. The Faculty also jointly teaches the MSc Public Health in Developing Countries and MSc Control of Infectious Disease (with the Faculties of Infectious and Tropical Diseases and Epidemiology and Population Health), and MSc Health Policy, Planning and Financing (jointly with the London School of Economics). Master's courses are organized in a modular format across the whole School. One of the growing areas of Faculty teaching is distance-based learning, with MScs in Public Health and Global Health Policy. In 2017/18, over 230 students were registered for our face-to-face Masters programmes and nearly 1600 students were registered for distance learning MScs.

The Faculty has also reorganized and expanded its research degree (MPhil/PhD; DrPH) training. Currently there are about 108 students and 23 staff members registered for a research degree.

Department of Global Health & Development (GHD)

The Department (headed by Professor Catherine Goodman) aims to conduct novel and policy-relevant research and training that concerns health issues with a global reach, predominantly from the perspective of the development of low and middle-income countries. The Department comprises approximately 100 staff and 80 research degree students, with total grants funding of over £30m spread over a range of funders including research councils, UK and overseas charities, the European Union, Department for International Development and others. Staff come from a wide range of disciplines including economics, epidemiology, mathematics, policy analysis, medicine and social anthropology and are organized into two research units. Members of the Department also edit the journal Health Policy and Planning.

Communicable Diseases Policy Research Group (CDPRG)

Within GHD, CDPRG provides a focus of expertise on the diverse public health problems associated with communicable disease control internationally. The Group focuses on multidisciplinary research in support for, and of, policy reform and comprises a team of specialists in clinical medicine, epidemiology, public policy and public health, all of whom have substantial portfolios of research on the diverse health problems facing the countries in Europe, Asia and

Africa. The team has an established wide range of collaborative partnerships with institutions and individuals both domestically in the UK and internationally including multilateral agencies, bilateral agencies and industry. In addition the group also draws on the considerable expertise across the Department of Global Health and Development, the Faculty of Public Health and Policy, and the wide range of disciplines found within the London School of Hygiene & Tropical Medicine. Notable areas of research which have received considerable attention have included health systems analysis, analysis of strategic planning, law as a tool to support communicable disease control, policy analysis, development and ranking of indicators to assess performance. CDPRG staff have extensive national and international experience in providing high quality teaching and training in short graduate and post-graduate courses and masters programmes. In particular, they have established and run the highly successful summer schools and international workshops for health policy makers. Over the past 5 years funding through grants and consultancies has been received from a variety of sources including the World Bank, the World Health Organization (WHO), European Commission, UK Department for International Development (DFID), UK Department of Health, Open Society Institute (OSI), GIZ, Government ministries of health, and industry.

Programme summary:

Influenza pandemics evolve undetected in animal hosts for several years before detection in humans, and the role of swine in the 2009-H1N1 pandemic is well documented. However, little is known about the ecology and evolution of influenza viruses in pigs, particularly in Southeast Asia, where surveillance is limited, and conditions are fertile for virus re-assortment and pandemic emergence. Consumption and production of livestock in this region has increased dramatically in recent years, with livestock systems undergoing rapid change. The implications for zoonotic and pandemic disease emergence remain unclear but are likely to be profound.

This project aims to characterize the nature and extent of zoonotic risks from pig rearing systems, with a focus on influenza. This will augment the ability to predict and respond to zoonotic and pandemic risk in relation to pig production systems in the Lower Mekong Region

The specific objectives are to:

1. Identify spatio-temporal patterns in the epidemiology and diversity of swine influenza in relation to pig production and exchange systems in Cambodia;
2. Identify how rates of zoonotic influenza transmission vary across different demographic and occupational groups in Cambodia;
3. Develop mathematical models of the ecological and evolutionary dynamics of influenza at the human-swine interface, to determine where disease surveillance and control interventions could be most effectively targeted;
4. Promote and enhance capacity for One Health research, surveillance, and collaboration among the human health and veterinary communities in Cambodia.

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, including contributing to drafting major grant proposals and/or leading on drafting small grant proposals;
2. To contribute to peer-reviewed publications, 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.
5. To work closely with local partners to coordinate and support day-to-day project activities in Cambodia, including field data collection, management and analysis of epidemiological and laboratory data, write up of project reports, and dissemination of findings;
6. To oversee and support serological and virological sampling of pigs in the field.

EDUCATION

1. To contribute to the delivery of high quality, 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 the School's education, by participating in the development of new and updated learning and teaching materials or approaches.
3. To supervise postgraduate students as required.

INTERNAL CONTRIBUTION

1. To undertake activities that support the Department, Faculty or the School;
2. To participate in the School'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 engage with and support further development of networks in Southeast Asia, including contribution to local capacity building and training activities.

PROFESSIONAL DEVELOPMENT & TRAINING

1. To keep up to date with the latest research/thinking in your academic field and with changes to pedagogic 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.

[JAN 2019]

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 Epidemiology, Public Health, Infectious Diseases, or related area
2. Experience of study coordination, including planning, data maintenance and security, administrative support, and/or quality monitoring
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. Ability to travel internationally and locally to oversee and conduct fieldwork and meet with stakeholders and project partners

DESIRABLE CRITERIA

1. Some experience of contributing to research grant applications.
2. Degree in Veterinary Medicine (DVM);
3. Some experience of teaching and assessment.
4. Some experience of supervising and supporting junior researchers and/or research degree students, and non-academic staff.
5. Experience working in low or middle-income countries
6. Experience with R statistical software
7. Laboratory experience e.g. in PCR and/or serological assays

SALARY AND CONDITIONS OF APPOINTMENT

The post is funded until 30th September 2020, with potential for future extension as and when further funding is confirmed and will be based in Phnom Penh, Cambodia. The salary will be on the Academic scale, Grade 6 scale in the range £39,304 - £44,634 per annum (inclusive of London Weighting). The post will be subject to the LSHTM overseas 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.

Applicants will be required to have the right to work in Cambodia (or be eligible to apply for a suitable work visa).

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.

Knowledge generation: Independent contributions and a clear trajectory towards excellence as an academic researcher

Research and scholarship

- 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

Doctoral degree supervision

- 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

Research management, leadership and support

- 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

Professional development

- Courses and other professional development activities, referenced to RDF
- Where the length, nature and funding source of the position permit, to apply for and, if accepted, undertake a doctoral degree (if not already acquired)

Education: Basic competence in teaching and assessment

Teaching and assessment

- Research-informed teaching and assessment contributions (e.g. contributions to modules, MSc project supervision)

Educational development and innovation

- Contributing to the development of new educational materials, learning opportunities or assessments approaches

Education leadership and management

- None expected

Professional development

- Participation in professional development activities referenced to UKPSF (e.g. HEA, PGCILT, preparation for doctoral degree supervision, shadowing more experienced colleagues)

¹ Such RFs are expected to be registered for a doctorate

Internal contribution: Contributions to School functioning and development

Internal citizenship

- Contributing to at least one Department, Faculty, School, or Centre event or special interest group in any one year;
- Supporting external School collaborations/partnerships (beyond own research or education role) where relevant

School leadership and management roles

- None expected but credit can be given if undertaken

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