



UNIVERSITY OF LIVERPOOL



POSTDOCTORAL RESEARCH ASSOCIATE IN ECONOMICS OF ZONOTIC DISEASE SURVEILLANCE

Job Ref: 007987



Faculty: Health and Life Sciences, Institute of Infection and Global Health, Department of Epidemiology and Population

Location: University Campus and Busia, Kenya

Grade: 7

Salary: £32,958 pa

Hours of work: Full-Time

Tenure: Until 30 September 2019

Interview Date: To be confirmed

Closing Date: 7 September 2017

Informal enquiries to Professor Jonathan Rushton, email: j.rushton@liverpool.ac.uk



The Post

You will be based in the Department of Epidemiology and Population Health, one of three departments within the Institute of Infection and Global Health (IGH). The post is funded by a BBSRC ZELS project ZooLinK. We are seeking a Postdoctoral Research Associate to join Professor Rushton's research group investigating the application of economics to One Health issues and very specifically to apply cost-effectiveness methods to zoonotic disease surveillance and the ZooLinK project team led by Professor Eric Fèvre. The project will involve travel to Kenya with field sites in Busia. The work will require collaboration with the national government, private companies in the livestock food systems and international agencies. You will work closely with colleagues working on the economics and social sciences of animal and One Health, as well as the veterinary and medical teams already active in the project.

This role will require you to use skills and expertise in epidemiology, social sciences, quantitative and qualitative data collection and analysis with guidance in the application of economics to:

- Define the best methods of data capture for costs of surveillance tools and methods such as sampling, diagnostics and data analytics
- Determine critical points of decision making in the surveillance process and type of information people are seeking to make decisions
- Understand the people and organisations involved in the decision making across the surveillance system and place these into a context of human health services and livestock food systems
- Assist in working towards better public policies and private standards on the application of surveillance of zoonotic diseases

The post is available until 30 September 2019, with successful implementation of the project, funding will be sought to extend the work.

Essential Skills:

You will have the following knowledge, experience and skills:

- PhD in economics of human or animal health or related discipline.
- Experience of data collection and analysis in human or animal health systems.
- An emerging record of high-quality publications in your field.
- Proven ability to solve problems and achieve objectives.
- Excellent interpersonal and communication skills.



Other information

The successful candidate will supervise staff in Kenya in the collection of data and its analysis. You will also be expected to contribute towards improving the use of economics and social sciences in animal health and One Health. When required, you will assist in supervising students and contribute to a reports from the ZooLinK project.

International Travel

The post will require the successful candidate to travel within Kenya. It is expected that some significant periods of time will be spent based in the Busia field site, along with the wider project team.

The Institute

For more than 100 years Liverpool has had an international reputation in infection research, tropical medicine and global health. The Institute of Infection and Global Health brings together leading infection and global health researchers from across the campus, including medical, veterinarian and basic scientists. The Institute is headed by Professor Tom Solomon and it is organised around three departments:

- Infection Biology
- Clinical Infection, Microbiology and Immunology
- Epidemiology and Population Health

The Institute currently has 120 full-time academic staff, including 21 professors, as well as 56 professional services staff and 125 research students.

<http://www.liv.ac.uk/infection-and-global-health/>

DEPARTMENT OF INFECTION BIOLOGY

The Department of Infection Biology aims to investigate how pathogens interact with their hosts at the molecular and cellular level. The Department is situated in 1000m² of newly refurbished laboratory and office space at the Liverpool Science Park, as well as having space on the Leahurst campus. Work is focused on parasites, bacteria and viruses of animals and humans, including zoonoses and endemic and exotic animal diseases that pose a threat to food security. By gaining a better understanding of the biology of host-pathogen interactions our work will enable the design of better vaccines and drugs, confront the rise of antibiotic resistance and combat the emergence of new diseases. The Department's research is underpinned by the use of state-of-art genomics, proteomics and cell-imaging technologies and works closely with groups in Epidemiology and Population Health, and Clinical Infection, Microbiology and Immunology, as well as with the wider Faculty.



DEPARTMENT OF CLINICAL INFECTION, MICROBIOLOGY AND IMMUNOLOGY

The Department of Clinical Infection, Microbiology and Immunology is situated in a purpose built 5000m² facility, the Ronald Ross Building, which includes containment level III laboratories for *in vitro* and *in vivo* work. The Department conducts clinically driven infection research. This includes research of direct clinical relevance (centred on improved diagnosis, treatment and prevention of infections), investigation of how pathogens cause disease, and research that aims to better understand the host response to infection and vaccination.

The Department's work addresses infections of importance both in the UK and overseas and encompasses diseases in adults and children. Major research themes within the Department currently include organ-based disease (brain, respiratory and gastrointestinal infections), sepsis, bacterial pathogenesis, HIV & hepatitis vaccines, infection immunology and infection pharmacology.

A range of experimental methods and techniques are employed, including conventional microbiological, virological and immunological techniques, genomics, proteomics, animal models of infection and clinical trials.

DEPARTMENT OF EPIDEMIOLOGY AND POPULATION HEALTH

The Department of Epidemiology and Population Health aims to understand and model the behaviour of pathogens in populations and communities, the spread of antimicrobial resistance, the determinants of pathogen distributions in space and time, and how, in our rapidly changing world, these may change in the future. The department has several research programmes including Animals in society, Climate & health, Disease control, Disease surveillance, E-epidemiology, Vector-borne diseases and Zoonoses epidemiology.

The Institute of Infection and Global Health is committed to promoting equality and diversity, including the Athena SWAN charter for promoting women's careers in STEMM subjects (science, technology, engineering, mathematics and medicine) in higher education. The Institute has a Silver Award for its commitment to gender equality in the workplace and we welcome applications from a diverse range of backgrounds. For further information please visit (<https://www.liverpool.ac.uk/infection-and-global-health>) <http://www.liv.ac.uk/media/livacuk/infectionandglobalhealth/IGH,Family,friendly,Guide.pdf>



Person Specification

ESSENTIAL CRITERIA

DESIRABLE CRITERIA

(Identified from – Application form, CV, Supporting Statement, Interview, References)

EXPERIENCE

1.	Experience of working with human or animal health systems	Work experience in Africa
2.	Experience in the application of economics to health system (human, animal or One Health)	At least 1 first author publication
3.	Supervision of staff collecting data on for economic and epidemiological analysis	Experience of training and supervising other team members

EDUCATION, QUALIFICATIONS AND TRAINING

1.	PhD in the economics of human, animal, One Health or related discipline	Social sciences, epidemiology or value chain/food analysis
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SKILLS, GENERAL AND SPECIAL KNOWLEDGE

1.	Willingness to learn and perform economic assessment of surveillance	
2.	Understanding of the human or animal health services and more specifically surveillance	
3.	High quality numeracy, epidemiology and data collection design skills	
4.	Good interpersonal skills	
5.	Excellent verbal and written communication skills	

PERSONAL ATTRIBUTES AND CIRCUMSTANCES

1.	Highly motivated approach	
2.	Ability to work effectively independently and as part of a team	
3.	A positive and flexible approach to working with colleagues	
4.	Willingness to spend extended periods in Kenya	
5.		



A World Class University



The University of Liverpool is one of the UK's leading research institutions with an annual turnover of £480 million, including £133 million for research. Liverpool is ranked in the top 1% of higher education institutions worldwide and is a member of the prestigious Russell Group, comprising the leading research universities in the UK.

As an international institution, we have 31,000 students and 195,000 alumni in 200 countries. Our global focus has led us to establish a university in the World Heritage city of Suzhou near Shanghai, in partnership with Xi'an Jiaotong University – a top 10 university in China. Liverpool is popular with students from all over the world, with 7,700 international students from all over the world studying at the University. We are also the largest provider of 100% online postgraduate degree courses in Europe with some 10,000 students studying for University of Liverpool degrees around the world.

Associated with no fewer than nine Nobel Laureates, we are recognised for our high-quality teaching and research. In the UK Government's most recent research assessment exercise, a total of 81% of the University's research staff were ranked in the highest categories of 4* (world-leading) and 3* (internationally excellent) for their research.

Addressing some of the world's toughest challenges, our research is helping to transform lives. Here you can work with us to conduct research that has a positive impact on people and the planet, to share ideas with peers, with business and beyond, to further widen your world view within our international network of academic partners and to prepare to be a true global citizen. Here at the University, we can help you to make a real difference to the wider world.

The University continues to strengthen key aspects of the student experience, investing £600 million in its teaching, research and residential estate over a 10-year period including £250 million in high quality accommodation and £350 million in the city centre campus and at the Veterinary Science site at Leahurst on the Wirral.

Life Changing, World Shaping



The City of Liverpool



As the fourth largest city in the UK, Liverpool is diverse, energetic and exciting. Built on an illustrious heritage that stretches back 800 years, Liverpool has a global reputation for sport, music, architecture and culture.

Today the city is enjoying a resurgence, driven by its designation as European Capital of Culture in 2008. Record levels of inward investment have transformed the city.

The regeneration of Liverpool City Centre has been spearheaded by the £1 billion Liverpool One project - one of Europe's biggest shopping/mixed-use schemes, which has positioned the city as one of the UK's top five retail destinations.

The successful European Capital of Culture experience in 2008 has been followed by the designation of Liverpool's stunning waterfront as a UNESCO World Heritage Site and massive investment in new cultural and leisure attractions, including Albert Dock. Liverpool is a major cultural hub in the UK. In fact, there are more museums, theatres, and galleries in Merseyside than in any other region outside London.

Liverpool Philharmonic Hall, home to the Royal Liverpool Philharmonic Orchestra, one of Europe's leading orchestras, is the classical counterpoint to the city's many contemporary music venues and the visually stunning Echo Arena.

Home to two of Europe's most famous football teams – Liverpool FC and Everton FC– the city's achievements in sport are internationally recognised. Aintree Racecourse, home of the Grand National, and two internationally acclaimed golf courses at Royal Birkdale & Royal Liverpool in Hoylake are on the doorstep.

Compared to many other UK cities Liverpool has less congestion, is closer to countryside, has more parks, has more cultural and recreational opportunities, better schools and more accessible transport. Liverpool is uniquely situated 1 hour from Manchester, 3 hours from London by train and the city's Liverpool John Lennon Airport (one of the Europe's fastest growing airports) connects to more than 650 world wide destinations.

For more information on the city of Liverpool, visit: www.itsliverpool.com



Application Process



HOW TO APPLY

To apply for a Vacancy at the University you must register on the University of Liverpool E-Recruitment site,

If you have any questions relating to applying for a Vacancy please contact the Recruitment Team by email –

ACKNOWLEDGING YOUR APPLICATION

Once you have submitted your application you will receive an automatic acknowledgement. Your application can be viewed at any time in the Application History section of your E-Recruitment Account.

SHORTLISTING AND INTERVIEWING

Shortlisting and interview arrangements are the responsibility of the recruiting Department. Please contact **Helen Nelson** on **0151 795 9623**, email: **nelson@@liverpool.ac.uk** for enquiries after the closing date.

OUTCOME OF APPLICATIONS

Vacancies at the University often attract a large number of candidates and it is not always possible to respond individually to every application. If you have not heard from the recruiting department by **early October 2017** please take it that your application has not been successful.



General Information

Asylum & Immigration

The University 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. Please be aware that you will be required to bring your passport (and visa if applicable) to interview so that it can be copied and verified by a member of the Selection Panel. For posts requiring a recognised degree level or equivalent qualification, and where there is no suitable UK or European Economic Area candidate, the University will take the necessary steps to secure UK Border Agency permission for a foreign national to take up employment.

Should a candidate require a Certificate of Sponsorship in order to take up a post they will need to meet the UK Border Agency Tier 2 Points Based Criteria. A self-assessment tool can be found on the UK Border Agency website at:

www.ukba.homeoffice.gov.uk/pointscalculator

A candidate may also be required to undertake an English Language test prior to commencing work at the University. Details of Home Office approved tests can be found at: <https://www.gov.uk/government/publications/guidance-on-applying-for-uk-visa-approved-english-language-tests>

Further information on the eligibility criteria for Certificates of Sponsorship can be found at: www.ukba.homeoffice.gov.uk/employers/points

National Insurance Number

All employed individuals must possess a UK National Insurance Number. Further information and how to apply for a unique National Insurance Number can be found at: <https://www.gov.uk/apply-national-insurance-number>

Diversity and Equality

The University of Liverpool is committed to diversity and equality of opportunity. All employees and applicants for jobs will be considered on their abilities and will not be discriminated against on the grounds of age, caring responsibilities, colour, disability, employment status, gender, gender identity, marital status, nationality, race or ethnic origin, religion or belief, sexual orientation, socio-economic status or any other irrelevant distinction. Training is available to support career progression within the University.

Two Ticks Disability: Guaranteed Interview Scheme (GIS)

The University of Liverpool is committed to the employment of disabled people, and as part of our commitment, we guarantee to interview all disabled applicants who meet the essential criteria for a post and consider them on their abilities. If your disability prevents you completing the application form by the specified closing date, or when the vacancy closes early, due to a high volume of applications, please call the Recruitment Team to discuss alternative arrangements.

<http://www.liv.ac.uk/working/jobvacancies/guaranteedinterviewscheme/>

Volition Programme

The University of Liverpool supports the Liverpool Anglican Cathedral Volition Programme. Applicants who have successfully completed the programme and meet the essential criteria for the post will be offered a guaranteed interview. Please note that individuals will be confirmed through the Volition Programme directly.

<http://www.liv.ac.uk/working/jobvacancies/volitionprogramme/>

GiveGetGo Volunteer Programme

Applicants who have successfully completed the GiveGetGo Volunteer Programme at the University in Partnership with the Transform Lives Company who meet the essential criteria for the post will be offered a guaranteed interview. Please note that individuals will be confirmed through the GiveGetGo Volunteer Programme directly.

<https://www.liverpool.ac.uk/working/jobvacancies/givegetgo/>

Accessibility

If you require copies of documentation in alternative formats, for example, large print or Braille, please contact jobs@liverpool.ac.uk or telephone 0151 794 6771.

If you have any other requirements which will help you access the application or interview process or employment opportunities at the University of Liverpool, please let us know by contacting jobs@liverpool.ac.uk or telephone 0151 794 6771.

Pension

The Occupational Pension Scheme associated with this appointment is the Universities Superannuation Scheme (USS). You are encouraged to familiarise yourself with the full particulars of the scheme which can be found [here](#)

