

## Candidate Information

<b>Position:</b>	Lecturer in Bacterial Pathogenesis
<b>School/Department:</b>	Wellcome-Wolfson Institute for Experimental Medicine, School of Medicine, Dentistry and Biomedical Science
<b>Reference:</b>	22/110143
<b>Closing Date:</b>	Monday 19 September 2022
<b>Salary:</b>	£43,414 - £53,353 per annum
<b>Anticipated Interview Date:</b>	Monday 17 October 2022

### JOB PURPOSE:

To strengthen the academic base within the Wellcome-Wolfson Institute for Experimental Medicine, to teach at undergraduate and postgraduate level, and to contribute to School and Institute administration / outreach activity.

The post holder will employ multidisciplinary and innovative approaches to advance our understanding as to how bacteria contribute to pathogenesis, chronicity, and recurrence of human disease, including antibiotic resistance.

### MAJOR DUTIES:

#### Research:

1. Develop the research activities of the School by sustaining a personal research plan by managing and undertaking research activities in accordance with a specific project plan in the Immunobiology and Microbes theme of the Institute.
2. Sustain a high quality publication record by publishing in refereed journals and presenting at conferences to assist individual research so that the School's research profile is enhanced.
3. Develop research proposals and funding bids in collaboration with others.
4. Direct, coach and develop research staff, where appropriate.
5. Ensure that research projects are completed on time and within budget.

#### Teaching:

1. Develop teaching methods, design course units and deliver teaching and assessment activities, including lectures, coursework, practical's, and fieldwork according to own area of subject specialism.
2. Develop approaches to teaching and learning, which are appropriate for the subject area and reflect developing practice, particularly in the digital/ online arena.
3. Contribute to the enhancement of teaching quality within the subject, or at School / Faculty level, with a view to enriching the student experience and improving career outcomes.
4. Mentor and guide others on learning and teaching tasks and methods.
5. Contribute to the design of innovative teaching programmes.

#### Administration/Contribution to Community:

1. Contribute to the School's outreach strategy by developing external links.
2. Develop links with relevant industries and external bodies to encourage technology transfer opportunities and create opportunities for future research projects.
3. Provide pastoral care for students within own area to ensure, as far as practicable, that all relevant issues are dealt with in a timely, sympathetic and effective manner.
4. Carry out designated School functions, including, for example, participation in committee work, assisting in the process of admissions and preparation of submission for teaching quality assessment.

**Additional Information:**

The Wellcome-Wolfson Institute for Experimental Medicine provides an outstanding interdisciplinary and collegial environment to answer major questions of human health by understanding the molecular mechanisms of disease. The Institute is an internationally recognized hub for excellence in research on respiratory medicine and critical care, ophthalmology, basic immunology, and host-pathogen (viral and bacterial) interactions. This rich scientific environment provides unique opportunities for fast track translation of basic discoveries into human health. The Institute has access to core facilities for discovery science, including a BSL-3 lab, genomics, mass cytometry, imaging, and platforms to support clinical studies. There are excellent opportunities for collaboration with colleagues in the Centre for Public Health on communicable diseases and antimicrobial resistance, the School of Pharmacy on formulations of drug delivery, and the School of Biological Sciences on environmental and food microbiology.

**ESSENTIAL CRITERIA:**

1. Primary Degree.
2. PhD in a related subject area.
3. A minimum of three years' research experience at postdoctoral level in a relevant bacterial pathogenesis field.
4. Research profile which complements the infection biology portfolio of the Wellcome-Wolfson Institute for Experimental Medicine (in particular, on cellular microbiology, antimicrobial resistance, host-pathogen interaction, and microbiome research).
5. Recent, relevant publications in peer reviewed/refereed journals that are at recognised internationally as being high quality, commensurate with experience.
6. Record of securing external funding commensurate with the level of this post.
7. Experience of developing research methodologies, models, approaches and techniques.
8. Experience of presentations at national and international meetings and conferences.
9. Relevant teaching experience at University Level.
10. Relevant academic administrative/management experience.
11. Ability to liaise and develop translational programmes with clinicians.
12. Demonstrable interest in undertaking discovery science by bridging clinical work and fundamental biology (e.g. biomarkers, immune responses, tissue homeostasis).
13. Ability to advance the research and teaching goals of the School.
14. Ability to strengthen the School's national and international research networks.
15. Ability to negotiate contracts independently or as a leader of a section in major projects.
16. Good presentation skills with the ability to communicate complex information effectively.
17. Good communicator, written and oral.
18. Able to present research and other plans and reports to the wider academic community and non-academic audiences.
19. The ability to organise workload and prioritise competing demands.
20. Ability to manage resources and staff.
21. A team player who can develop effective internal and external links.
22. Clear commitment to interdisciplinary working including clinical translation of research.
23. Must be prepared to travel (conferences and visits to collaborators).

**DESIRABLE CRITERIA:**

1. Completion of a PGCHET (or equivalent) or HEA membership.
2. Experience of supervising research activities of other Post-Doctoral Fellows or Postgraduate Students.
3. Evidence of having obtained funding from government or private charitable agencies to support independent research.
4. Experience working on human bacterial pathogens.