

Research Role Profile

Job Title:	Research Fellow in Tuberculosis
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Responsible to:	Head of research group, or principal investigator
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Responsible for:	Not applicable
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Job Summary and Purpose:
To undertake research in accordance with the specified research project(s) under the supervision of the principal investigator.

Main Responsibilities/Activities
To undertake a range of research activities within a specified research area, assuming responsibility for specific areas of projects and making use of new research techniques and methods, in consultation with the research award holder or supervisor. This may include fieldwork, interviews, laboratory experimentation, critical evaluation and interpretation, computer-based data analysis and evaluation or library research. Using initiative and creativity to identify areas for research develop new research methods and extend the research portfolio. Analysing and interpreting results of own research. Write up results and prepare papers for submission to appropriate journals and conferences, and other outputs as required and/or appropriate. Attend appropriate conferences for the purpose of disseminating research results of personal development. The post holder may also contribute to writing bids for research grants and will contribute to collaborative decision making with colleagues in areas of research. Continually to update knowledge and develop skills, and translate knowledge of advances in the area into research activity. To plan and manage own research activity in collaboration with others. To carry out administrative tasks associated with specified research funding, for example risk assessment of research activities, organisation of project meetings and documentation. Implementation of procedures required to ensure accurate and timely formal reporting and financial control. To contribute to teaching in the Faculty by carrying out student supervision and/or demonstrating within the post holder's area of expertise and under the direct guidance of a member of departmental academic staff, as appropriate. The post holder may occasionally be required to supervise more junior research staff.

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Person Specification

The post holder must have:

A doctoral degree in a relevant discipline (although individuals who have almost completed a doctoral degree may be appointed). Consideration may also be given to individuals who do not hold a doctoral degree but have required skills based on a number of years experience in specified / relevant fields

The post holder will have authority over some aspects of project work and must be capable of providing academic judgement, offering original and creative thoughts and be able to interpret and analyse results.

Relationships and Contacts

Direct responsibility to the principal investigator or academic supervisor. The post holder may be asked to serve on a relevant Faculty committee. There may be additional reporting and liaison responsibilities to external funding bodies or sponsors. The post holder may work on original research tasks with colleagues in other institutions.

Special Requirements

To be available to participate in fieldwork as required by the specified research project

All staff are expected to:

- Positively support equality of opportunity and equity of treatment to colleagues and students in accordance with the University of Surrey Equal Opportunities policy.
- Help maintain a safe working environment by:
 - Attending training in Health and Safety requirements as necessary, both on appointment and as changes in duties and techniques demand
 - Following local codes of safe working practices and the University of Surrey Health and Safety Policy
- Undertake such other duties within the scope of the post as may be requested by your Manager.

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Addendum

This document provides additional information relating to both specific aspects of the post/faculty and any post specific person specification criteria. The information contained within this document should always be read in conjunction with the accompanying generic Job Purpose.

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Background Information/Relationships

A Postdoctoral Fellow position is available in the team led by Dr Dany Beste at the University of Surrey to work on an exciting 3-year MRC funded research project focused on fundamental biology of *Mycobacterium tuberculosis*. The research aims to understand the intersection between metabolism and virulence and is focused on characterising a newly discovered system that regulates metabolic pathways and virulence factors that are essential for *M. tuberculosis* to cause disease.

As a group we are applying an integrated systems approach of microbiology, biochemistry, molecular biology, multi-omics and mathematical modelling to understanding the role of metabolic pathways in the virulence and antimicrobial susceptibility of mycobacteria with the overall goal of developing novel anti-TB drugs.

This is a multi-disciplinary collaborative project with the University of California and therefore will involve national and international travel. We would like to appoint an enthusiastic and highly motivated scientist with a PhD in molecular biology or a related discipline. Ideally applicants should have published (or be about to publish) in peer-reviewed journals.

It is critical that the candidate is a team player with good communication skills to fit into our enthusiastic, collegiate, and supportive research team. Our laboratory is located at the beautiful Stag Hill campus of the University of Surrey in the heart of Guildford.

In addition to salary, you will receive a generous annual leave entitlement and excellent training and development opportunities. Benefits package includes pension, childcare assistance and leisure facilities.

Person Specification

This section describes the sum total of knowledge, experience & competence required by the post holder that is necessary for standard acceptable performance in carrying out this role. This is in addition to the criteria contained within the accompanying generic Job Purpose.

Qualifications and Professional Memberships	Essential/ Desirable
Hold a doctoral degree in Molecular Biology, Biochemistry microbiology or closely allied subject	E
Track Record of writing/publishing scientific journals and presenting at conferences	D

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Experience in designing and conducting microbial experiments	E
Experience of molecular Biology	E
Experience working with <i>Mycobacterium tuberculosis</i>	D
Experience of structural Biology	D
Experience of mass spectrometry	D

Key Responsibilities

This document is not designed to be a list of all tasks undertaken but an outline record of any faculty/post specific responsibilities. This should be read in conjunction with those contained within the accompanying generic Job Purpose.

1. Grow and maintain cultures and stocks of *Mycobacterium tuberculosis* at containment level 3.
2. Perform molecular biology, microbial genetics and microbiology experiments.
3. Perform metabolomics studies.
4. Data analysis using appropriate tools.
5. Contribute to the writing and submission of high-quality scientific papers
6. Deliver scientific presentations to the research section and externally at national and international scientific conferences.
7. Help with day-to-day supervision of undergraduate and postgraduate students in the laboratory.

The above list is not exhaustive.