Queen Mary
University of London



Job pack

Message from the President and Principal



Thank you for your interest in this role and in Queen Mary University of London. Working at Queen Mary means being part of a unique, world-class global University with a long, proud and distinctive history.

Our founding institutions, the London Hospital Medical College, St Bartholomew's Medical College, Westfield College and Queen Mary College, were founded to provide hope and opportunity for the less privileged and otherwise under-represented.

Today, we remain true to the vision of our founders by continuing to improve lives locally, nationally and internationally through the seamless combination of our world-leading strengths in education and research.

The Queen Mary community – our staff, students and alumni – is the heart and soul of our University. We are proud to provide an inclusive and nurturing environment so that staff and students from all backgrounds can develop, flourish and achieve their full potential.

I look forward to welcoming you to our unique University and working with you to realise our ambitions.

Professor Colin Bailey, President and Principal

qmul.ac.uk

Athena Swan Silver Award

Gender Charter

Diversity & Equality

Queen Mary

Queen Mary University of London

Our strategy 2030

In 2019, Queen Mary University of London launched a bold new Strategy with the vision to open the doors of opportunity. By 2030, we will be the most inclusive university of its kind, anywhere. We are doing this by building on our existing cultural diversity to create a truly inclusive environment, where students and staff flourish, reach their full potential and are proud to be part of the University. Continuing our long tradition of commitment to public good, we will generate new knowledge, challenge existing knowledge, and engage locally, nationally and internationally to create a better world.

We have five core values that will help us to reach this goal:

We are **inclusive**, supporting talented students and staff regardless of their background, and engaging with our local and global communities.

We are **proud** of the difference we can all make when we work collectively.

We are **ambitious**, fostering innovation and creativity, disrupting conventional thought, and responding with imagination to new opportunities.

We are **collegial**, promoting a strong community through openness, listening, understanding, co-operation and co-creation.

We are **ethical,** acting with the highest standards, and with integrity, in all that we do.

To enable our staff to flourish and to reach their full potential throughout their employment at Queen Mary, we offer a range of benefits:

Staff benefits

- Annual leave – the full-time annual leave annual entitlement is 30 working days (not including bank holidays).
- Season ticket loan scheme
- Pension scheme
- Reward and recognition schemes
- Staff Networks
- Cycle to work scheme
- Qmotion sport fitness centre
- Employee Assistance Programme
- Family friendly policies
- Flexible working practices

Job description

Job details	
Job title	Research Technician
School/Dept/Institute Centre/Faculty	Faculty of Medicine and Dentistry, Institute of Dentistry, Centre for Oral Immunobiology and Regenerative Medicine
Reports to	Principal Investigator
Grade and salary	Grade 3, £33,928 (pro rata)
Hours per week	Part-time, 17.5 hours per week
Appointment period	12 months
Current location	Blizard Institute, Whitechapel
Work activity type	Technical

About Queen Mary University of London

Ranked joint 7th in the UK for the quality of its research in the 2021 Research Excellence Framework, Queen Mary University of London, is one of the UK's leading research-intensive higher education institutions, delivering world class education and knowledge transfer across a wide range of subjects in the Humanities and Social Sciences, Medicine & Dentistry and Science & Engineering.

About The Faculty of Medicine and Dentistry

The Faculty of Medicine and Dentistry offers international excellence in research and teaching and supports clinical service for a population of unrivalled ethnic diversity in East London and the wider Thames Gateway. At the forefront of medical research and education, with research themes in cancer, cardiovascular medicine, inflammation, trauma and population health. Queen Mary is in the top 10 universities in the UK for medicine and dentistry and 7th in the world for research citations for medicine in the QS World University Rankings by Subject 2025. In the Complete University Guide 2026, we are ranked first in London for dentistry and second in London for medicine.

Working with six NHS Trust partners in East London, the Faculty is central to delivering impact on health-related challenges for local and global populations; it has a strong commitment to public engagement through its pioneering science education centre in Whitechapel, The Centre of the Cell. The Faculty is firmly embedded in our East End and global communities, and through education and research we are committed to improving the health outcomes, the wellbeing, and the prosperity of those we serve through a strategy focused on Better Health for All.

Job context

The Institute of Dentistry (IoD) is based in the thriving and diverse area of Whitechapel. In the Spring of 2014, we moved into brand new state-of-the-art premises, The Royal London Dental Hospital. The new Dental School and Hospital house the most modern and technologically advanced equipment in the UK. Building on and contributing to research excellence across the Faculty of Medicine and Dentistry, and the whole of Queen Mary, the IoD strongly promotes the translation of its research to address global oral health problems while fostering clinical innovation and excellence. Our research strategy focuses on improving the diagnosis and treatment of oral diseases through a fundamental understanding of the cellular, molecular and societal basis underpinned by effective approaches to disease prevention, health promotion and strengthening of global health systems.

The Institute is split into the following research centres - Oral Immunobiology and Regenerative Medicine (COIRM), Oral Bioengineering, Dental Public Health and Primary Care, and Oral Clinical

Research. Part of our Centre, COIRM, is based at the Blizard Building, an internationally renowned centre of excellence for basic and clinical biomedical research. At this site, colleagues, students and members of the staff conduct cutting-edge research in 3 broad themes: Tissue Repair and Regeneration, Infection, Immunity and Inflammation, and Early Diagnosis of Cancer. We have strong links with the Royal London Hospital.

Job purpose

To undertake research investigations in collaboration with and under the supervision of Dr. Fabian Flores-Borja to realise the objectives and development of the research programme into the role of gamma delta T cells in autoantibody production in Behçet's disease. The Flores' research group investigates the phenotypic and functional characterisation of innate and adaptive immune cells in oral diseases and systemic inflammatory diseases with oral manifestations using multidisciplinary approaches including cell and molecular biology, in vitro cell functional assays, flow cytometry, immunological techniques and bioinformatics. Our ongoing work integrates analyses of cohorts of peripheral blood samples and oral ulcer tissues derived from patients with Behçet's disease, and oral cancer. Our aim is identifying cell markers for diagnostic and increase our understanding of the mechanisms leading to inflammation in oral diseases. Also, in collaboration with our international collaborators we are researching the mechanisms of tissue repair in the oral cavity (Luo et al, Communications Biology, 2025; Sun et al, Frontiers in Cell and Developmental Biology, 2025), and the targeting of mucosal innate immune cells and repurposing of drugs for treatment of periodontitis (Soria-Castro et al, Science Reports, 2022; Soria-Castro et al, Science Reports, 2020). The group is funded by a Barts Charity research grants, and PhD scholarships from the Medical College of St Bartholomew's Hospital Trust and the governments of Egypt and Kuwait. For more information about the group, please see https://www.qmul.ac.uk/dentistry/people/profiles/drfabianfloresborja-.html

Main duties and responsibilities

1. Contribute towards the development of the research programme at all stages by applying agreed research principles, protocols and assisting in the planning and delivery of the programme of research.

2. Responsible, under the general guidance of the Line Manager / PI, for undertaking specific research activities relating to the programme of work.

3. Prepare reports of research results for public presentation through seminars and conferences. Contribute to writing papers summarising research findings for publication in peer-reviewed journals (of high international standing where appropriate) and other reports where required.

4. Conduct empirical research as required by the research programme. Make research initiatives and original contributions to the research programme wherever possible, and to contribute freely to the team research environment in a manner conducive to the success of the research programme.

5. Develop, in collaboration with the Principal Investigator new techniques as may be necessary to achieve the objectives of the research.

6. Collate data and undertake any appropriate analysis of data as requested by the Principal Investigator.

7. Maintain appropriate databases, keeping accurate written and computerised records and to ensure that these records are stored in a secure place, and to maintain confidentiality of all electronically stored personal/clinical data in line with the provisions of the Data Protection Act.

8. Undertake literature and database searches for the research project, and to be able to interpret and present the findings of the literature searches and advise the research teams appropriately regarding potential projects as required by the Principal Investigator.

9. Keep up to date with subject related and appropriate academic/professional matters, in particular, developments in the specific subject area.

10. Provide oversight/support for, and assist in the supervision of, student projects, as required.

11. To show a professional attitude to matters of laboratory hygiene, organisation and safety, and to observe and to take an active role in fulfilling all statutory health and safety regulations.

12. To ensure that all research is undertaken according to good research practice and guidance, such as Good Clinical Practice (GCP), / Good Laboratory Practice (GLP),/ and University protocols.

13. To assist in the provision of consumable items for the group (auditing stock, liaising with suppliers, preparing regular orders of commonly used items).

14. The duties of the post outlined above are not exhaustive, and the postholder will be expected to be co-operative and flexible, undertaking such administrative and other duties as may from time to time be reasonably expected of a member of research grade staff in a university.

The above list of responsibilities is not exhaustive, and the jobholder may be required to undertake other duties commensurate with the level of the role as reasonably requested by their line manager.

This job description accurately reflects the duties and responsibilities of the role at the time the job description was written. These duties and responsibilities may change over time without significantly impacting on the character of the role, the overall level of responsibility, or its grade.

Depending on strategic or operational needs, the jobholder may in the future be required to work for another existing or new organisational unit and/or at a different site within Queen Mary. This may be on a temporary or indefinite basis and may involve a change in line management and / or regularly working at more than one site.

Citizenship

The Faculty of Medicine and Dentistry is committed to an action plan that supports the cultivation of a diverse and nurturing staff and student community, at the heart of which sits the commitment to equality of opportunity and equity in our processes and structures.

It is the expectation of all staff that they undertake citizenship responsibilities within the Faculty. As part of the appraisal and probation process, your line manager will discuss the expectations of you to lead or participate in citizenship projects/initiatives as set out in the Faculty's EDI Strategy. These responsibilities will be commensurate with the seniority of the role and the expertise and experience of the individual.

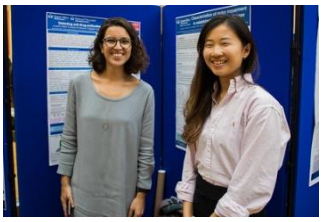
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Person specification

This table lists the essential and desirable requirements needed in order to perform the job effectively. Candidates will be shortlisted based on the extent to which they meet these requirements.

Essential: Requirements without which the job could not be done.
Desirable: Requirements that would enable the candidate to perform the job well.

Qualifications	Essential	Desirable
MSc (or close to completion) or research qualification/experience equivalent to MSc level in the relevant subject area for the research programme	☒	☐
Educated to degree level in a relevant field	☒	☐
Qualifications in molecular biology, biochemistry, genetics or a related area	☒	☐
Minimum upper second-class degree	☐	☒
Experience/Knowledge		
Experience in Isolation of peripheral blood samples	☒	☐
Knowledge of Cell culture and manipulation of primary blood cells	☒	☐
Experience in Flow cytometry and cell sorting	☒	☐
Proficiency in running ELISA	☒	☐
Experience in RNA isolation	☒	☐
Good understanding of Bioinformatics (analyses of RNA sequencing data)	☐	☒
Understanding of the research process and knowledge of appropriate research protocols	☒	☐
Experience in planning and delivery of own work allocation, to agreed timescales and quality standards	☒	☐
Experience of the research environment	☒	☐
Experience of collaborative team working to achieve a common goal/objective	☒	☐
Experience in maintaining accurate and up to date records	☒	☐
Experience in report-writing, utilising appropriate styles/approaches to suit the audience	☒	☐
Skills/Abilities		
Phlebotomy skills	☒	☐
Effective report-writing, written and verbal communication skills. Able to adapt style/approach appropriately to suit the audience. Effective team working with a collaborative style.	☒	☐
Proven ability to maintain accurate and up to date records	☒	☐





Ability to organise and prioritise own work and organise research within the project timetable	☒	☐
Experience of using Microsoft Office packages (Word, Excel, Outlook and Powerpoint), FlowJo and GraphPad Prism software	☒	☐
Able to identify appropriate solutions from a set of principles and/or prior experience rather than from a specific set of procedures	☒	☐
Able to apply appropriate judgement in a range of non-routine work situations and prioritise appropriately under pressure	☐	☒
Advanced IT, numeracy and analytical skills with a high level of accuracy and attention to detail	☐	☒
Other		
The role is subject to a criminal record check (DBS)	☒	☐
*The ability to meet UK 'right to work' requirements.	☒	☐
Willingness to work flexibly in order to achieve the demands of the research programme	☒	☐
Self-motivated and able to work without close supervision	☒	☐
Organised and methodical, and able to use own initiative where appropriate	☒	☐
Ability to maintain confidentiality when handling sensitive data	☒	☐

* The University has a legal responsibility to ensure that all potential employees can provide documentary evidence of their legal right to work in the UK prior to commencing employment.

Visa Sponsorship

For those who do not have a right to work in the UK, the University is a UKVI licensed sponsor and is able to issue a Certificate of Sponsorship (CoS) to successful candidates who are offered skilled roles and meet the eligibility criteria. The CoS enables candidates to apply for a Skilled Worker visa. Further information on the Skilled Worker visa can be found via: www.gov.uk/skilled-worker-visa

Global Talent Visa Route

The Global Talent visa is an alternative route to sponsorship, directly applied for by the applicant. It is open to those wishing to work in the UK and who are a leader or potential leader in the fields of academia or research, arts and culture, and digital technology. Further information on the Global Talent Route can be found via: https://www.gov.uk/global-talent

For additional information on both visa sponsorship and non-sponsorship visa routes, please visit the UK Visas and Immigration website: https://www.gov.uk/browse/visas-immigration/work-visas

Academic Technology Approval Scheme (ATAS)

Academics and Researchers applying for Skilled Worker visas and Sponsored Researchers applying for Government Authorised Exchange visas who will be undertaking research activities, at PhD level or above, in the one of the ATAS listed subject areas will be required to obtain an ATAS certificate before they can apply for a visa to work in the UK.

Exemptions will exist for nationals from the EEA, Australia, Canada, Japan, New Zealand, Singapore, South Korea, Switzerland and USA and those applying for Global Talent Visas. For further information on this, please visit the UK Visas and Immigration website: https://www.gov.uk/guidance/find-out-if-you-require-an-atas-certificate






EDI Initiatives

Queen Mary is committed to advancing Equality, Diversity and Inclusion (EDI). We hold a Silver Institutional Athena SWAN award for advancing gender equality and champion a number of EDI initiatives across the University. We also offer a number of development programmes including Springboard, Aurora and B-MEntor.
We are committed to championing EDI relating to all protected characteristics and other underrepresented and marginalised groups under the Equality Act 2010. We offer 'Introducing Inclusion' training for staff to give them an understanding of EDI related issues and provide them with the tools needed to champion inclusivity and embed best inclusive practice in all the work they do. EDI is built into everything we do at Queen Mary, and is championed through a well-established governance structure. If you are interested in learning more about Equality, Diversity and Inclusion at Queen Mary and how to get involved then please contact hr-equality@qmul.ac.uk.

Flexible Working

Queen Mary is proud of the diversity of its staff and students. We encourage inclusive practices in everything that we do, to ensure that everyone who works here feels valued and enabled to have a positive working experience. We are therefore open to considering applications from candidates wishing to work flexibly, balanced against business need. Our Flexible Working Policy includes examples of some of the flexible working arrangements that could be considered. If you feel that this is something that may be of benefit to you, please do ask.

Family Friendly Policies

Queen Mary recognises the commitments that staff have to their family and the importance of work-life balance. To support this Queen Mary offers a range of family friendly policies with enhanced rates of pay available for family-related leave, following a qualifying period of service.

Further Information

Details about us can be found at:

www.qmul.ac.uk/dentistry

Informal enquiries should be made to:

Name: Fabian Flores-Borja

Tel: 0207 882 8654

Email: f.flores-borja@qmul.ac.uk

General Information

Please note that we advertise our salaries on a range to indicate the trajectory of progression that can be made. Appointments are usually made at the start of the salary range. The Queen Mary salary structure includes automatic pay progression within the published grades, subject to service, funding and performance. In addition to this, there are performance related annual pay review schemes in place.

