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

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 Assistant in AI
School/Dept/Institute Centre/Faculty	William Harvey Research Institute/Centre for Clinical Pharmacology and Precision Medicine
Reports to	BRC Theme Leads - Precision Cardiovascular Genomic Medicine
Grade and salary	Grade 4 spinal pt 25 - 26
Hours per week	Full-time (35 hours per week)
Appointment period	Up to 16 months in first instance as grant funded
Current location	Charterhouse Square
Work activity type	Research only

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

We are seeking a Research Assistant in AI to join our research group working on NIHR funded projects which form part of our Biomedical Research Centre portfolio. The role is based at the William Harvey Research Institute, one of six Institutes in the QMUL Faculty of Medicine and Dentistry (FMD), located primarily at the Charterhouse Square campus. The Institute is a world-leading centre for research, with a vibrant, multidisciplinary scientific environment devoted to therapeutic innovation in cardiovascular, endocrine and inflammatory diseases.

The role is predominantly based at Charterhouse Square, but there may be a requirement to carry out duties at other sites as necessary.

The role is available from November 2026 and is funded until 31st March 2028 in the first instance.

Job purpose

The post-holder will support computational studies of cardiovascular conditions (e.g. cardiomyopathies, hypertension, inherited arrhythmias) in large-scale clinical datasets. They will work with a multi-disciplinary team of scientists, clinicians and support staff, specific tasks include: contributing to preparing, curating and managing large-scale clinical, imaging and linked healthcare datasets and developing and validating AI-based cardiovascular risk prediction models in real-world datasets.

Main duties and responsibilities

1. Contribute to the research programme at all stages where relevant applying agreed research principles, protocols and assisting delivery of the programme.

2. Prepare, curate and manage large-scale clinical, imaging and linked healthcare datasets for computational cardiovascular research working within Trusted Research Environments (TREs) and other secure data platforms.

3. Develop, maintain and document reproducible data processing pipelines using appropriate software development practices to improve the efficiency and reproducibility of research workflows. Contribute to the documentation, version control and testing of such code.

4. Develop and validate AI-based cardiovascular risk prediction models in real-world datasets to assess model performance, generalisability and clinical applicability. The post holder may also extend these models or develop new models as appropriate.

5. Collaborate with clinicians, geneticists and data scientists and other researchers to understand research requirements and translate these into robust computational solutions.

6. Prepare reports of research results for internal and external presentation through seminars and conferences, summarising results for publication and other reports where required.

7. Contribute to the overall scientific endeavour of the Groups, and possibly to take responsibility for areas of other projects, as demand requires.

8. Work as part of the Groups research team, being mutually supportive and covering duties as necessary during colleagues' absences and at times of additional pressure, as directed.

9. Develop positive working relationships with a broad range of individuals and work effectively across teams and will need therefore need strong interpersonal and communication skills.

10. Attend and participate in the Institute's academic activities, e.g. group and journal club meetings, research group meetings and weekly seminars.

11. 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 data in line with the provisions of the Data Protection Act and Clinical research Governance.

12. 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 line manager/supervisor/PI.

13. Keep up to date with subject related and professional issues, in particular, developments in the specific subject area.

14. Comply with relevant College policies and regulations with due regard to financial matters, harassment, equal opportunities, public interest disclosure, health and safety, intellectual

property and patenting, data protection or any other rules, regulations or codes binding on the member of staff.

15. Undertake such other duties as may be reasonably expected by the line manager or Head of Department.

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.

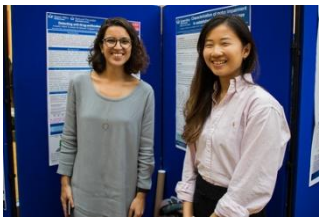
Queen Mary University of London

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
Undergraduate degree in a relevant quantitative field (e.g. Computing/Maths/Bioinformatics/Statistics).	☒	☐
Relevant postgraduate degree, e.g. MSc (or equivalent)	☒	☐
Experience/Knowledge		
Experience of undertaking a research project (e.g. a data analysis project for a final year undergraduate dissertation or MSc project, or a specific degree module)	☒	☐
Evidence of intermediate statistics, data analysis or computational skills	☒	☐
Experience in developing software, data processing pipelines, or predictive models, etc; with demonstrated expertise in Python programming and basic shell (bash) scripting.	☒	☐
Experience in software engineering and machine learning best practices, including version control, continuous integration (CI) and continuous development (CD), and containerisation.	☐	☒
Experience in collaborative team working to achieve common goals/objectives	☐	☒
Experience in report-writing utilising appropriate styles/approaches to suit the audience	☐	☒
Skills/Abilities		
Strong communication skills, both written and verbal.	☒	☐
Proven ability to maintain accurate and up to date records	☒	☐
Good organisational and time-management skills	☒	☐
Advanced IT, numeracy and analytical skills with a high level of accuracy and attention to detail	☒	☐
Experience in using Microsoft Office packages (Word, Excel, Outlook and Powerpoint)	☒	☐
Other		
Self-motivation and the ability to work in a multi-disciplinary team	☒	☐
Interest to work in a research team environment	☒	☐
*The ability to meet UK 'right to work' requirements.	☒	☐





* 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/xxx

Informal enquiries should be made to:

Dr Thomas Kaplan: t.kaplan@qmul.ac.uk, Prof Patricia Munroe: p.b.munroe@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.

