

THE UNIVERSITY OF MANCHESTER
PARTICULARS OF APPOINTMENT
FACULTY OF BIOLOGY, MEDICINE & HEALTH
FBMH TECHNICAL SERVICES
RESEARCH TECHNICIAN
VACANCY REF: BMH-032107

Salary: UoM Grade 4 £29,588 - £32,080 per annum depending on relevant experience

Hours: 35 hours per week (1 FTE)

Duration: Fixed term for 24 months

Location: Oxford Road

Enquiries about the vacancy, shortlisting and interviews:

Name: Lorraine Schmidt

Email: lorraine.schmidt@manchester.ac.uk

Duration: Two years in the first instance

Context of the role

To provide technical support with minimal supervision, in a range of project specific research activities including: the running and troubleshooting of experiments; the maintenance, use and teaching of research associated equipment particularly small artery pressure myography. To assist team members in ensuring that staff and students operate safe working practices ensuring health and safety compliance within the laboratories.

Main Responsibilities

Operational

- Assist with research animal model maintenance and microdissection of arteries
- Perform and optimise experimental protocols of antibody based imaging on confocal and super-resolution microscopy.
- Carry out and assist staff and students with standard experimental protocols.
- Undertake pressure myography of small arteries.
- Assist staff and students in the operation of laboratory equipment.
- Assist in the smooth running of the laboratories including general housekeeping duties.

- Collate and store accurate records using paper and computer based systems and the preparation of data for inclusion in presentations and publications.
- Contribute to the group's progression by providing feedback and input to experimental design and development.
- Assist with monitoring general consumable stock levels and procurement of consumables and equipment. Take delivery of goods and store in accordance with local and statutory guidelines.
- Work in compliance with relevant Health and Safety regulation, Data Protection Act and University policy legislation and regulations, e.g. Human tissue Act, Equality & Diversity, etc.
- Carrying out risk assessments for the preparation and use of reagents, chemicals, equipment and procedures by self and others in your research group.
- Any other reasonable duties commensurate with the grade

General

- Have an understanding of and commitment to promote the University's policies and procedures to support and promote Equality & Diversity.
- To maintain confidentiality of information in line with data protection requirements and University policy.
- To comply with Health and Safety requirements, including having an awareness of personal responsibilities to maintain a safe working environment.
- To contribute to the University's agenda for social responsibility, including sustainability.

Social responsibility (All Staff)

You are expected to display commitment to the University's third strategic goal of social responsibility, where the aim is to make a positive contribution to society through our full range of teaching, research, engagements and operational activities.

- Promote social responsibility.
- Contribute to the delivery of the social responsibility agenda and strategic aims.

Personal Specification

Essential Knowledge, Skills, Experience and Qualifications:

- A qualification at QCF level 6 (such as a bachelor's degree) in a relevant biological science subject.
OR
QCF level 2 passes (such as GCSE's) in English and Mathematics and at least one Science subject **and** substantial relevant experience of working in a research laboratory.
- Knowledge and experience of cardiovascular physiology and/or small vessel disease of the brain pathophysiology

- Experience in pressure myography of pial cerebral arteries
- Excellent communication skills (written and oral), demonstrating an ability to deal with a wide range of people, effectively and politely with staff, students and visitors.
- Excellent organisational skills, ability to prioritise a variety of work activities in a busy environment and meet strict deadlines.
- Experience of working in a team environment and independently within a large organisation, demonstrating an ability to be flexible and provide support for colleagues.
- Demonstrates a high level of accuracy and attention to detail.
- Demonstrates numeracy, analytical and problem solving skills with the ability to identify and resolve issues effectively.
- Good computer skills including exposure and use of GraphPad Prism, MATLAB and Python programming codes and Bioinformatics experience (e.g. BLAST, SeaView)
- Experience in Western Blotting, Immunohistochemistry and PCR.
- Demonstrable commitment to the University's strategy, vision and values.
- Ability to follow instructions with minimal supervision.
- Ability to work to a high standard with good reproducibility of results
- Willingness to undertake any necessary training.

Desirable Knowledge, Skills, Experience and Qualifications:

- Knowledge of and compliance with relevant Health and Safety regulation, the Data Protection Act, Standard Operating Procedures and risk assessments including COSHH risk assessments.
- Experience in the provision of information and guidance to managers, staff and students.
- Higher Education Qualification such as a bachelors or masters degree or Higher National Certificate or Diploma in a relevant science subject.
- Experience of working with Word, Excel and PowerPoint packages. Desirably also with ImageJ and/or IMARIS
- Establish working hours, however a flexible approach to working hours is desirable as some evening and weekend working will be required to monitor the progress of some procedures and experiments.
- Willingness to attend and contribute to research group and staff meetings.

Expectations and success factors

- To be a proactive team member and treat all colleagues and students with respect in accordance with the established PS Behaviours.
- To be willing to work across organisational boundaries.
- To seek new knowledge and share ideas.
- To be open and responsive to change and innovation.