

**THE UNIVERSITY OF MANCHESTER**  
**PARTICULARS OF APPOINTMENT**  
**FACULTY OF BIOLOGY, MEDICINE & HEALTH**  
**CHOOSE AN ITEM.**  
**IMAGING FACILITIES**  
**RESEARCH TECHNICIAN – PRE CLINICAL**

<b>Salary:</b>	Grade 4
<b>Hours:</b>	1 FTE
<b>Duration:</b>	Permanent
<b>Responsible to:</b>	Senior Experimental Officer

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**Overall Purpose of the Job:**

To provide technical expertise to the Imaging Facilities preclinical MR imaging laboratories in accordance with expertise and grade. The post-holder will support the Senior Experimental Officer pre-Clinical MR and will undertake the day to day operations of the Preclinical MR at Stopford and will play a key role in delivering imaging focussed research programmes in collaboration with colleagues. The successful candidate will also be expected to work within a multidisciplinary team, including both clinical and non-clinical scientists.

**Main Responsibilities**

**Operational**

- To perform in vivo research within the preclinical suites in WMIC and Stopford and assist in the generation of high quality data from the use of equipment, such as PET and MR scanners and Bioluminescence instrumentation.
- Collection and processing of blood samples, including centrifugation and pipetting of blood and plasma; and sample analysis using a range of techniques for the measurement of radioactivity in blood or plasma. This involves the operation of specialised instrumentation including HPLC and multi well AGC, as well as sample preparation equipment including centrifuges.
- Extract and prepare tissue using specialised equipment and perform ex-vivo analyses, such as histology, immunohistochemistry, autoradiography and HPLC.
- Assist in the smooth running of the laboratories including general housekeeping duties and waste management.
- Carry out welfare checks and provide husbandry support to the preclinical facilities

- Ensure general laboratory housekeeping duties are completed to maintain the laboratories' fitness for purpose, such as routine calibrations, QC checks, housekeeping and maintenance of laboratory stock levels of consumables.
- Ensure data is properly backed up as appropriate.
- Perform routine maintenance and QC of instrumentation and reporting of problems to external companies to organise repairs, ensuring the equipment is in a safe and reliable condition and ready for use.
- Collate and store accurate records, aligned with Home Office regulations, using paper and computer based systems and the preparation of data for inclusion in internal review, presentations and publications.
- Contribute to the group's progression by providing feedback and input to experimental design and development via reporting to the basement progress meeting and directly to Principal Investigators.
- Assist with monitoring general consumable stock levels and procurement of consumables and equipment. Liaison with Biological Services Facility (BSF) staff for consumables directly related to in-vivo research and collection from the BSF
- Work in compliance with relevant Health and Safety regulation, including radiation safety legislation, Environment Agency directives, the Data Protection Act and GDPR regulations and University policy legislation and regulations, e.g. Equality & Diversity, permit to work etc.
- Work in accordance with Home Office and the EU Directive on using animals in scientific procedures.
- Carrying out risk assessments and COSHH assessments for the preparation and use of reagents, chemicals, equipment and procedures by self and others in the group. Process risk assessments for GMP and the safety of patients and volunteers.
- Contribute to the preparation of SOPs.
- Perform any necessary tasks in the preclinical and associated laboratories.
- Perform any necessary tasks in the preclinical and associated laboratories and other reasonable duties commensurate with the grade.
- Flexible working and occasional out of hours work, including weekends will be required and will be reimbursed with time off in lieu

#### **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 and GDPR 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.

#### **Person specification:**

#### **Education and Professional Qualifications**

##### **Essential**

- A qualification at QCF level 6 (such as a Bachelor's degree) in a relevant science subject  
**OR**  
QCF level 2 passes (such as GCSEs) in English and Mathematics and at least one Science subject and substantial relevant experience of working in a laboratory

### **Skills and knowledge**

#### **Essential**

- Knowledge of and compliance with relevant Health and Safety regulation, the Data Protection Act, GDPR, Standard Operating Procedures and risk assessments including COSHH.
- Ability to work to a high standard with good reproducibility of results
- Understanding of the need to work to a Quality System.
- Excellent communication skills (written and oral), demonstrating an ability to deal with a wide range of people.
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### **Experience**

#### **Essential**

#### **Essential skills and experience**

- Hold a Home Office Personal Licence.
- Flexible and responsive to customer needs and able to provide information, advice and guidance whilst maintaining confidentiality
- 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 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
- Able to supervise staff and co-ordinate work activities
- Demonstrable commitment to the University's strategy, vision and values

#### **Desirable skills and experience**

- Knowledge of Home Office Regulations 2010/63/EU
- Willingness to attend and contribute to research group and staff meetings
- Understanding of radiation safety

#### **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.