

THE UNIVERSITY OF MANCHESTER
PARTICULARS OF APPOINTMENT
FACULTY OF BIOLOGY, MEDICINE AND HEALTH
SCHOOL OF HEALTH SCIENCES
DIVISION OF INFORMATICS, IMAGING AND DATA SCIENCES
LEAD RADIOGRAPHER (PET-MR)

Salary:	Grade 7
Hours:	1FTE
Duration:	Currently fixed term to 31 July 2021
Responsible to:	Imaging Director

Background

The scanner is housed in a dedicated suite within the Nuclear Medicine department at St Mary's Hospital, Manchester University NHS Foundation Trust (MFT). The scanner, although based at MFT, falls under the auspices of the University's Imaging Facilities which owns scanners across a number of sites in Manchester. There are currently 3 MRI scanners (Salford Royal NHS Foundation Trust, Wellcome Trust Clinical Research Facility and the Wolfson Molecular Imaging Centre (WMIC)).

Overall Purpose of the Job

The postholder will be the lead radiographer in the PET-MR scanner suite and will liaise extensively with MFT and University personnel, including medical physicists, researchers, project managers, clinicians and other radiographers, to ensure that research and clinical scans are performed to agreed schedules and protocols. With considerable attention to patient care, the postholder will be expected to undertake all aspects of PET and MR imaging.

The postholder will be responsible for the day-to-day operation of the scanner suite, including line management of other radiographers, liaising with MFT colleagues, scheduling and documenting scans, ordering supplies including radiotracers.

The postholder will be required to rotate across the Imaging Facilities sites, as outlined above, to meet scanning demand.

Key Accountabilities

Operational

- Perform Positron Emission Tomography (PET) and Magnetic Resonance Imaging (MRI) in volunteers and patients according to clinical research protocols and standard operating procedures
 - This will involve drawing up, diluting, assaying and subsequent safe administration of a range of established and novel radiopharmaceuticals; scanning of volunteers within

the scanner suite, using the PET-MR scanner, withdrawal of blood samples from volunteers and patients; and

- performing these activities in strict accordance with approved protocols, procedures, IR(ME)R, IRR17, Ethics, Clinical Governance, GCP, Quality, Health and Safety at Work and Radiation protection requirements.
- Perform clinical scanning as part of NHS service contracts, liaising with MFT clinical staff
- Prepare all participants for scanning paying particular attention to MR safety rules
- Ensure the safety of volunteers, patients and staff is maintained and any incidents relating to the health and safety of volunteers, patients and staff are reported in accordance with clinical governance, agreed contractual arrangements and University and MFT internal reporting procedures
- Arrange for service contracts to be in place for equipment, securing value for money
- Review and comment on potential studies planning to use the PET-MR scanner, in conjunction with physics and project management colleagues
- Liaise with Principal Investigators, Clinical Fellows, MFT colleagues, University colleagues and external contractors, to ensure the scanner suite operates smoothly

Strategic

- Participate in the development of protocols for new research projects by close interaction with scientific investigators and academic/laboratory staff
- Line management of radiographers
- Take part in, and lead, PDRs
- Optimising the scanning scheduling, including co-ordinating staffing, scans and the ordering and delivery of radiopharmaceuticals
- Author and contribute to publications/ papers in the field of radiography, as required
- Compile and update SOPs, risk assessments, validation and quality management documents, as required, in accordance with current external, University and MFT guidelines
- Attend, and contribute to, management and research meetings and prepare and give presentations

General

- Maintain adequate stock control and storage of consumables and pharmacy supplies and the resuscitation trolley
- Identify and procure resources (equipment and consumables) needed for performing research protocols
- Conduct general housekeeping duties to ensure the area maintains its fitness for purpose and complies with infection control requirements
- Participate in preventative maintenance and quality assurance of equipment and materials
- Participate in quality control of imaging, monitoring and other equipment as required; ensuring problems are highlighted to MFT and University colleagues in a timely manner
- Maintain and help to improve the quality of all patient imaging and image processing procedures
- Ensure quality scanning records are accurately completed in a timely manner
- Ensure the scanning log is kept up to date, undertaking quality control on a monthly basis
- Ensure all records (including patient health, financial, personal and administrative) comply with data protection and GDPR legislation. The records may be paper, electronic, microfiche, audio or videotapes, images etc. Confidentiality of all records, whether patient records or University information, must be maintained even beyond employment at the University.

- Adherence to all MFT and University Health and Safety policies, procedures and local rules
- Ensure the safe disposal of radiopharmaceuticals and other waste materials, according to local rules and procedures
- Ensure Ionising Radiation and Environment Agency regulations are adhered to, and the completion of Environment Agency returns
- Liaison with counter-terrorism officers from Greater Manchester Police
- Ensure training is kept up-to-date for all defined health and safety and GCP requirements
- Undertake weekend and evening working occasionally as required
- Undertaking scanning at other Imaging Facilities sites, for which training will be provided
- Other duties commensurate with the grade may be required, as appropriate

Person Specification

Education and Professional Qualifications

Essential

- Health and Care Professions Council (HCPC) registered Radiographer
- DCR, BSc (Radiography)
- Postgraduate qualification in PET
- Current Good Clinical Practice (GCP) certification

Desirable

- PGD (MRI)

Skills and knowledge

Essential

- Knowledge and understanding of IR(ME)R 2017 and Ionising Radiation Regulations 2017 (IRR17)
- Willingness and ability to adopt new knowledge and research procedures
- Knowledge of MR safety rules
- An interest in developing skills in MR imaging
- Good interpersonal skills
- Self-motivation
- An ability to adapt protocols and procedures

Experience

Essential

- Experience in clinical and/or research based PET or PET-MR imaging
- Experience of dealing with members of the public and patients
- Experience of cannulation
- Experience in handling and injecting radioactive tracers
- Experienced in the use of intravenous contrast agents in clinical MRI, PET/CT or CT imaging
- Experience of working with IR(ME)R and Ionising Radiation Regulations 2017 (IRR17)
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- Line management experience

- Experience of using systems such as PACS and DICOM
- Ability to work as part of a multidisciplinary team
- Experience in handling blood samples
- Ability to work flexibly including the ability to work flexibly across all sites
- Ability to, at short notice, rearrange work patterns according to business need

Desirable

- Experience in cross-sectional imaging
 - Experience in MR imaging
 - Experience in PET-MR scanning
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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
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