Job Description & Person Specification

Locum Senior Physicist (1 year)

Job Title / Grade: Locum Senior Physicist

Department / Division: Medical Physics (Radiology), Mater Misericordiae University Hospital (MMUH)

Directorate: Radiology

Location: Mater Misericordiae University Hospital

Reporting Relationship: Chief Physicist MMUH

Responsible to: CEO MMUH
JOB DESCRIPTION

Job Purpose:
To provide experienced medical physics support to services provided at MMUH on a locum basis for a period of one year from November 2023.

ROLE SUMMARY

Working with other healthcare professionals, this senior grade hospital physicist will provide scientific and technical support to MMUH. He/she will work to ensure that all physics related activities at our major university teaching hospital are safe, of the highest quality, and are cost-effective. In particular the post-holder will provide expertise in PET/CT, Nuclear Medicine and Diagnostic Imaging, including image quality analysis. He/she will liaise closely with the Radiation Protection Advisor (RPA) and work towards qualifying being eligible to be included in the list of MPEs if he/she is not already an MPE. She/he will ultimately report to the Chief Physicist at MMUH.

SPECIFIC TERMS & CONDITIONS OF POST

- The appointment is a one year locum position, commencing November 2023.
- Annual Leave allowance is 29 days per annum.
- The person appointed must not give less than one month’s notice, in writing, of intention to resign.
- Normal working hours will be 35 hours per week.
- The post is based at the Mater Misericordiae University Hospital but may involve travel to other sites which Medical Physics support.

KEY RESPONSIBILITIES

Reporting to the chief physicist (MMUH) and working closely with the Radiation Protection Advisor (RPA), and Medical Physics expert this Senior Physicist will expertly support the Mater PET/CT service, Nuclear Medicine, Radiation Protection, QA/QC and teaching & relevant research.

CORE COMPETENCY

The appointee must be an experienced hospital physicist with a number of years of clinical experience. The appointee will have demonstrated a significant level of knowledge and experience as well as strong track record of contribution to Medical Physics.
Senior Physicist: Job Description – Summary

Locum Senior Hospital Physicist
Medical Physics (Radiology)
MMUH

- Purpose: to provide medical Physics support in a university teaching hospital environment:
  - Provide physics support for the PET/CT Centre
  - Manage the routine QA/QC for radiological equipment
  - To introduce new record structures for hospital radiology QC
  - Contribute to the provision of a radio-pharmacy service
  - Contribute to the scientific aspects of radio-nuclide therapies and setting up dosimetry
  - Contribute to relevant teaching & research as directed
  - Contribute to education of radiologists, radiographer and other relevant staff.
  - To contribute to the management of non-ionising radiation safety
  - Contribute to external services

- Will be expected to liaise and work effectively with other physicists, radiographers, radiologists and other clinicians and health care staff in MMUH.

- The new senior grade will be expected to lead initiatives in these topics and thus education, research and teaching will be expected.

- The Senior Physicist should be an MPE or actively working towards becoming an MPE

- Reporting to the Chief Physicist.

Terms and conditions

Date of job description: September 2023
Duties and Responsibilities of Senior Grade Physicist

a) Assist with specifying, evaluating and recommending as well as participate in the selection, installation, acceptance testing and commissioning of new equipment in diagnostic imaging departments.

b) Provide medical physics support for PET/CT centre.

c) Support and develop Nuclear Medicine and radiopharmacy services.

d) Participate in and supervise where relevant, on-going Quality Assurance Programs for all aspects of Diagnostic Imaging Equipment. This includes participation in internal and external audits of radiology and of the physics service as applied to radiology.

e) Contribute to Radio-Nuclide therapies including dosimetry

f) Contribute to radiation user training; advise on X-ray equipment purchase, operation, servicing and replacement; Provide safety and user advice in relation to radiation equipment.

g) Participate in the development of technical and clinical protocols.

h) Contribute to the scientific management of non-ionising radiation safety around the hospital as needed.

i) Be available for consultation with Medical Consultants and other medical staff, radiographers, service engineers, and other physics staff.

j) Participate in research, development and innovation and in the design and execution of projects, instruments and interfaces needed by the clinical equipment users in the Hospital.

k) Contribute, where required, to the planning and equipping of new installations.

l) Participate, as required, in education and training programmes for the medical, paramedical, scientific, technical and other staff and ensure his/her own knowledge and skills are kept up to date by participation in appropriate continuing education and training activities.

m) Contribute to external services

Senior Physicist
n) Actively participate in activities that constitute continuing professional development.

o) Keep records and provide such information as is consistent with good professional practice.

p) If appropriate, the appointee will be encouraged to establish and maintain links with relevant academic institutions (e.g. Faculty of Radiologists, University College Dublin).

q) Clinical requirements may dictate that from time to time work will need to be provided out of normal working hours and in sites external to MMUH.

r) Be willing to undertake any other duties or training as requested by the Chief Physicist in order to maintain quality of the Medical Physics service to the patients and staff.

s) Maintain throughout the Hospital awareness of the primacy of the patient in relation to all hospital activities.

t) The requirement to support the principle that the care of the patient comes first at all times and will approach their work with the flexibility and enthusiasm necessary to endeavour to make this principle a reality.

*Note: duties and responsibilities are a reflection of the current service requirements and may be subject to review and amendment to meet the hospital’s changing needs.*
**General Responsibilities and Accountabilities**

1. **Confidentiality**
   You will be aware of the confidential nature of Hospital work and in particular, the right of patients to confidentiality.

2. **Policies & Procedures**
   You are required to familiarise yourself with and adhere to all policy and procedural documents relevant to your position.

3. **Hygiene Standards**
   The highest standard of hygiene must be maintained in the Hospital at all times and all staff members are responsible for ensuring compliance with the Hospital’s requirements and standards with regard to hygiene. It is the responsibility of all staff to have a fundamental understanding of their individual responsibility in maintaining departmental & site hygiene standards.

4. **Health and Safety**
   Ensure that effective safety procedures are in place to comply not only with the Safety, Health and Welfare at Work Act 2005 but also within the spirit of the Hospital’s mission, vision and values, and they are known and followed by staff. You are required to familiarise yourself with the requirements of employees under the Safety, Health and Welfare at Work Act 2005 and to promote a work environment that is compliant with the Safety, Health and Welfare at Work Act 2005. Each staff member is individually responsible for ensuring that the Hospital remains a safe place to work.

5. **Information Technology**
   Ensure the most effective and efficient use of developments in information technology for administrative support in a manner, which integrates well with systems throughout the organisation.

6. **Business Continuity Management**
   Business Continuity Management (BCM) is a holistic management process that identifies potential impacts that threaten an organisation and provides a framework for building resilience and the capability for an effective response that safeguards the interests of its key stakeholders and reputation” (BS 25999) All Staff employed in the Mater Misericordiae University Hospital are obliged to:
   - make themselves familiar with the Organisational Business Continuity Plan
   - attend BCM education sessions provided for them
   - make themselves familiar with their individual roles as set out in their departmental business continuity plan if applicable and or the Organisational business continuity plan

**Note:**

_These duties and responsibilities are reflection of the present service requirements and may be subject to review and amendment to meet the changing needs of the Hospital. The incumbent Senior Physicist will be required to maintain, enhance and develop their professional knowledge, skills and aptitudes necessary to respond to a changing climate._

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Senior Physicist
# PERSON SPECIFICATION

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<thead>
<tr>
<th>Job Title/Grade</th>
<th>Locum Senior Physicist</th>
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<tbody>
<tr>
<td>Department</td>
<td>Radiology (Medical Physics)</td>
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<tr>
<td>Location</td>
<td>MMUH</td>
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<tr>
<td>Date</td>
<td>September 2023</td>
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<tr>
<th>Qualifications</th>
<th>Essential</th>
<th>Desirable</th>
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<tbody>
<tr>
<td>Good (1st or 2nd class) honours degree in Physics</td>
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<td>Relevant MSc or higher degree</td>
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<th>Experience</th>
<th>Essential</th>
<th>Desirable</th>
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<tr>
<td>At least three years working as a diagnostic medical physicist</td>
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<td>Significant experience in implementing and developing QC programmes for diagnostic radiology equipment</td>
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<td>Significant understanding of the application of radiation protection principles</td>
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<td>Nuclear Medicine diagnostics and therapies</td>
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<td>PET/CT</td>
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<td>Experience of Magnetic Resonance and Ultrasound</td>
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<td>Significant knowledge of CT dosimetry, image quality &amp; QC</td>
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<td>Good working knowledge of lasers &amp; laser safety</td>
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<td>Registered as an MPE with ICPM</td>
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<th>Core Competencies</th>
<th>Essential</th>
<th>Desirable</th>
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<td>Must be capable of working in an unsupervised capacity</td>
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<td>Able to prioritise and manage own work</td>
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<td>Excellent verbal &amp; written communication skills</td>
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<td>Demonstrate strong problem solving skills</td>
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<td>Evidence-based decision-making skills</td>
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<td>Able to exercise own initiative when dealing with unexpected or spontaneous issues</td>
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<td>Significant experience of software development, including signal processing and analysis software</td>
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<td>Must have sufficient capacity to recognise when more senior support is required</td>
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<td>Able to communicate highly complex information [e.g., postgraduate level physics material to other professional groups, e.g., radiologists, radiographers]</td>
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<td>Able to present scientific papers at national and international conferences</td>
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<td>Able to train groups of other professional staff</td>
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<td>Able to prepare and deliver teaching and training on complex subjects</td>
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<td>Excellent record keeping and documentation</td>
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<td>Driving Licence</td>
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