

The Newcastle upon Tyne Hospitals NHS Foundation Trust

Job Description and Person Specification

Job Title:	Clinical Scientist or Pre-Registrant
Band:	7
Directorate:	Northern Medical Physics and Clinical Engineering
Service / Function:	Nuclear Medicine, CDDFT & NTHFT
Site:	University Hospital of Hartlepool, University Hospital of North Durham and Darlington Memorial Hospital

Job Purpose

- Performs a range of advanced healthcare science activities
- Provide highly specialist advice and training to staff within own area and other professionals.
- Actively involved in research and development projects.
- Supervises and trains less experienced staff and trainees.

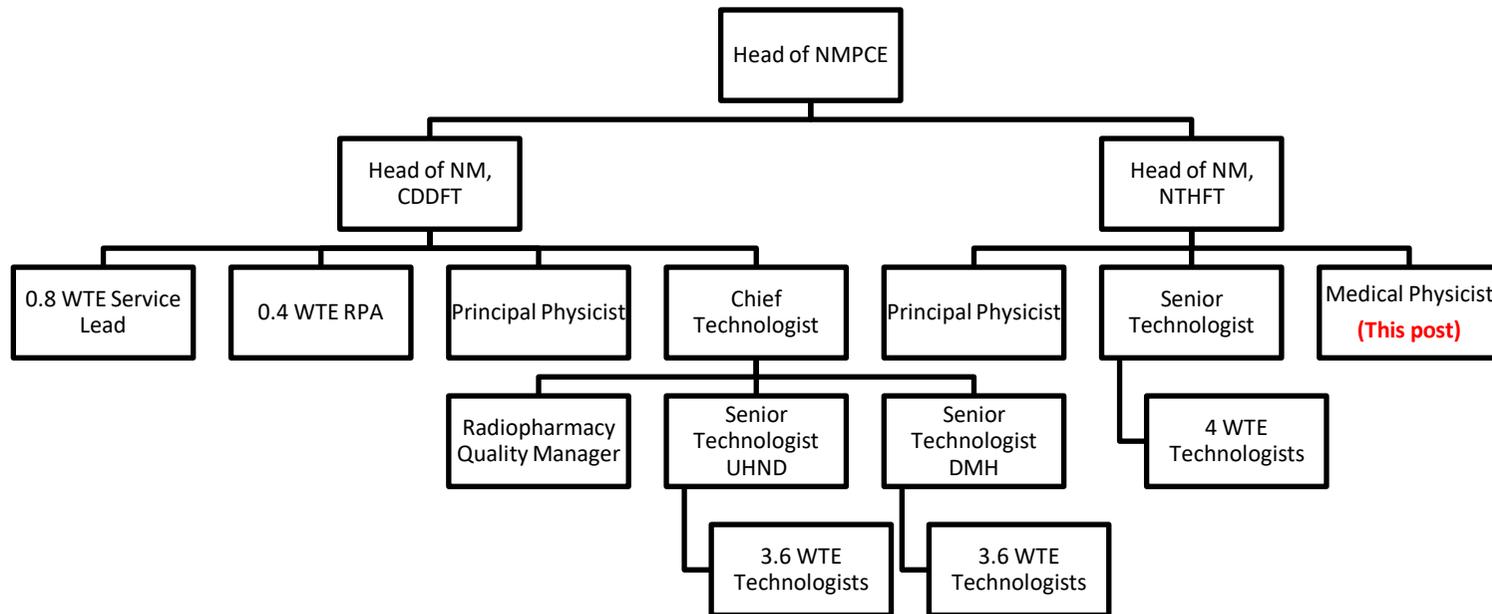
Dimensions

- The Northern Medical Physics and Clinical Engineering (NMPCE) Directorate provides both clinical services and research in a wide range of scientific and technical specialities. The Directorate is organised into units and sub units, serving patients within tertiary, acute and primary care settings.
- Medical Physics services in County Durham and Darlington NHS Foundation Trust and North Tees and Hartlepool NHS Foundation Trust are provided from the University Hospital of North Durham, Darlington Memorial Hospital and University Hospital of Hartlepool. Services include nuclear medicine, bone densitometry and urodynamics.
- Research and service development is conducted in collaboration with local consultants. Teaching and training is delivered to a range of staff groups, including clinical scientists, clinical technologists, nurses and medical staff.
- The post holder's key duties are detailed in the role descriptor towards the end of this document.

Organisational Arrangements

Accountable to: Head of Unit (Clinical Director)

Responsible to: Head of Nuclear Medicine Section, North Tees & Hartlepool NHS Foundation Trust



Knowledge Training and Experience

Educational

- A First or Second Class Honours Degree in relevant subject.
- Appropriate post-graduate degree at master's level, or equivalent level of specialist knowledge
- The post holder is expected to be a registered Clinical Scientist or working towards registration.

Scientific

- Highly specialist in-depth knowledge and understanding of current legislation and regulations pertinent to working area and the protection of staff, patients and members of the public
- Knowledge of legislation, standards and safety principles relating to the relevant area
- In-depth knowledge of human anatomy and physiology
- Good IT skills
- Good report writing and presentational skills, including the production of scientific papers, reports and conference presentations
- Knowledge of Governance issues including ethical and regulatory considerations
- Ability to give technical advice to colleagues, senior clinicians and other professionals
- Ability to carry out research and development working as part of a team
- Teaching, training and mentoring skills
- Up to date knowledge of Trust policies and procedures regarding control of infection.

Clinical

- Advanced knowledge of working area, enabling post-holder to advise on the appropriateness of techniques, and to collaborate with clinicians in their interpretation and reporting
- The ability to undertake complex calculation, data analysis and to issue reports on quantitative techniques

Training

- The post holder is expected to follow an approved programme of continuing professional development (CPD)

Skills

Communication and Relationships

- Establish and maintain first class working relationships with colleagues, medical staff and other health care professionals.
- To communicate highly complex procedures in simple terms to patients, their relatives and other healthcare professionals.
- To communicate highly complex, scientific, mathematical, statistical and regulatory knowledge and advice to medical staff, other clinical scientists and medical technologists.
- To provide accurate oral and written reports of investigations performed.
- Communicate sensitive information and test results only to appropriate staff.
- To liaise with scientists, colleagues, medical staff, other healthcare professionals,

Trust support services and equipment suppliers as appropriate

Analytical and Judgemental Skills required for the post

- To have the scientific skills to interpret clinical and scientific results and form a judgement on their significance.
- Contribute to the analysis of national and international guidelines and recommendations to develop or improve procedures and protocols relevant to the area of work.
- Contribute to the development of cost effective scientific solutions to clinical problems
- Apply correct statistical techniques to scientific data.

Planning and Organisational skills required for the post

- Responsible for prioritisation of own workload and others, some of which may be ongoing.
- To assist in the preparation of plans for the development of existing clinical services or the addition of new services, where required.

Physical dexterity skill requirements

- Perform minute adjustments to medical equipment or instrumentation
- Perform patient measurements
- Advanced keyboard skills.

Key Result Areas

Patient / Client care

- Provide highly specialist clinical service.
- To perform and supervise tests ensuring results that can be interpreted with confidence
- Provide highly specialist advice and information directly to medical, nursing and other NHS users and clients.
- To provide scientific assistance and advice to medical staff or other health care professionals performing clinical investigations or interventions.
- To ensure patient safety with the use of commercially manufactured equipment and systems ensuring that these are adequately maintained, calibrated and tested.
- Provide timely and accurate reports
- To comply with Trust standards and guidelines including infection control.

Policy and Service Development

- To be aware of relevant legal and statutory issues, international standards, and guidelines for best practice.
- Implementing Trust policies to meet legal and statutory requirements at all times, for example in relation to the data protection act.
- Ensure new or amended protocols and procedures are correctly and uniformly implemented.

Financial and Physical Resources

- To be responsible for the safe use of expensive highly complex equipment by post holder and other staff.
- To help contribute to the specification and justification of goods and services required by the Section as a whole, particularly in regard to statutory and other

requirements for medical devices.

Human Resources

- To supervise trainees as required
- Assist with training of Clinical Scientists and other healthcare professionals as required.

Information Resources

- Play a role in the efficient management of data storage, backup and security.
- Create spreadsheets and databases as required for record keeping and operational statistics.
- The post-holder has access to sensitive information and is responsible for its security and confidentiality in accordance with the data protection act.

Research and Development

- Regularly lead or participate in research and development work
- Play a major part in the commissioning of specialised equipment and software prior to clinical use
- Participate in clinical audits and other activities related to Clinical Governance.

Freedom to Act

- The post holder is expected to work within professional guidelines.
- The post holder's work is managed rather than supervised with results being assessed at agreed intervals.
- Prioritisation of own work. □

Effort and Environment

Physical

- There is a frequent requirement to sit in a restricted position as a substantial proportion of the working time is spent using a computer.
- Occasionally exert moderate physical effort for short periods moving patients or equipment

Mental

- There are frequent prolonged periods of concentration performing complex test procedures.

Emotional

- Occasional direct exposure to distressing circumstances.
- Frequent indirect exposure to distressing or emotional circumstances.

Working conditions

- Occasional exposure to unpleasant working conditions in connection with professional activities.

To be determined for the post.

Agreed post holder Agreed manager

Date

Date

Role Descriptor

Job Title: Clinical Scientist or Pre-Registrant

Section: Nuclear Medicine

- Assist in the provision of scientific services and expertise in nuclear medicine and radiopharmacy at the University Hospital of Durham, Darlington Memorial Hospital and University Hospital of Hartlepool.
- Assist with maintaining and improving required standards relating to these services.
- Undertake quality assurance procedures for nuclear medicine equipment within the Unit.
- Assist with development of existing services or addition of new services where required.
- Support routine clinical services and radiopharmaceutical manufacture.
- Participate in audit, research and development.
- Write scientific papers and present at national and other scientific meetings.
- Contribute to the training of junior scientific staff and other trainees.
- Technical reporting of some nuclear medicine studies (in keeping with developed expertise).
- Support nuclear medicine services within the unit as required.

This descriptor is issued as a guide only to the work you will be required to undertake. It is to be expected that your duties and responsibilities will change from time to time to meet the changing needs and circumstances.

THE NEWCASTLE UPON TYNE HOSPITALS NHS FOUNDATION TRUST

PERSON SPECIFICATION AT BAND 7

JOB TITLE: CLINICAL SCIENTIST or PRE-REGISTRANT (NUCLEAR MEDICINE)

DIRECTORATE: Northern Medical Physics & Clinical Engineering **WARD/ DEPARTMENT:** Durham Unit **SITE:** University Hospital of Hartlepool

<u>REQUIREMENT</u>	<u>ESSENTIAL</u> Requirements necessary for safe and effective performance of the job	<u>DESIRABLE</u> Where available, elements that contribute to improved/immediate performance in the job	<u>ASSESSMENT</u>
KNOWLEDGE	Knowledge of a range of nuclear medicine procedures. Knowledge of legislation, standards and protocols relating to clinical nuclear medicine work. Understanding of the functioning and safe use of common nuclear medicine equipment.	Clinical relevance of nuclear medicine investigations. Standards for radiopharmaceutical production. Knowledge of bone densitometry. Wider knowledge in radiation protection.	Application Interview
SKILLS	IT skills including databases and spreadsheets. Ability to communicate effectively with other health professionals and patients. Good writing skills. Good time management and organisational skills.	Nuclear medicine software applications development. Technical reporting of nuclear medicine studies. Patient handling skills including IV administration of radiopharmaceuticals.	Application Interview
EXPERIENCE	Experience in nuclear medicine.	Quality assurance and calibration procedures relating to a range of nuclear medicine equipment. Experience in Radiation Protection. Manufacture of radiopharmaceuticals. Experience in training and supervision of trainees. Audit, research and development. Formal presentations at national and local meetings.	Application Interview
QUALIFICATIONS	First or second class honours degree in physics or related physical science. Working towards HCPC Registration as a Clinical Scientist (appropriate specialism).	Higher degree in Medical Physics or related subject. Corporate membership of IPEM. HCPC Registered Clinical Scientist.	Application Interview HCPC register
PERSONALITY/ DISPOSITION	Able to work as part of multidisciplinary team. Able to work independently within professional guidelines. Knows own limitations.	Comfortable with patient care.	Application Interview
PHYSICAL	Smart appearance. Able to work in a sterile environment.	Able to move heavy objects e.g. lead shielding, patients (within moving and handling guidelines). Driving licence.	Application Interview

CANDIDATE:

REFERENCE NO:

SIGNED BY:

DESIGNATION:

DATE: