

The Newcastle upon Tyne Hospitals NHS Foundation Trust

Job Description

1. JOB DETAILS

Job Title:	Specialist Cardiac Physiologist
Band:	6
Directorate:	Cardiothoracic Services
Ward/ Department:	Cardiac Services Department
Hospital Site:	Trust wide

ESSENTIAL REQUIREMENTS

- BSc (Hons) in Clinical Physiology (Cardiology) or equivalent.
- Post graduate qualification (or equivalent experience) in either echocardiography or cardiac rhythm management (e.g., British Society of Echocardiography adult accreditation or Heart Rhythm UK accreditation) or working towards full completion.
- RCCP (Registration Council for Clinical Physiologists) voluntary registration or equivalent i.e., HCPC or AHCS
- Immediate Life Support certification
- Post-qualification experience as a Cardiac Physiologist with evidence of continuing professional development and demonstrable competency in:
 - Ability to interpret ECG data and write a report of findings on ambulatory ECG recording.
 - Ability to set up and use haemodynamic recording and monitoring equipment in cardiac catheterisation laboratory, including IABP set up and operation.
 - Ability to provide technical expertise at pacemaker implant and undertake pacemaker follow up or ability to perform echocardiograms with assisted reporting.
 - Ability to supervise exercise stress testing.
- Experience of teaching, training and / or mentorship
- Good interpersonal and communication skills.
- Conscientious working attitude.
- Evidence of participation in practice development and CPD
- Evidence of involvement in training junior staff
- Availability for on-call work

DESIRABLE REQUIREMENTS

- Advanced Life Support Resuscitation Certificate

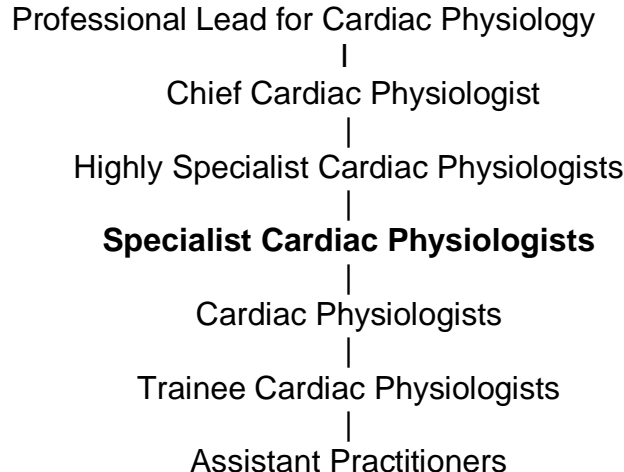
2. **JOB PURPOSE**

- Participate in the delivery of a specialist clinical service and deliver a high standard of care to all patients.
- Participate in the on-call rota, providing a 24-hour emergency service for cardiac catheterisation labs and pacing /ICD problems for adult and paediatric patients.
- Rotate through sections of Cardiac Services department to build and maintain a body of specialist knowledge and apply this to practice.
- Continue theoretical and practical training via experiential learning and designated advanced course attendances in order to further develop a specialist area of practice.
- Contribute to the delivery of training within the department.

3. **DIMENSIONS**

- Cardiac Services is a department within a tertiary Cardiac Centre which undertakes highly specialised diagnostic and interventional procedures for adult and paediatric patients from local, regional and supra regional referrals.
- This post provides an opportunity for the post holder to gain exposure to and experience of a wide range of complex investigations and procedures at a specialist level which will enable development to Highly Specialist level.

4. **ORGANISATIONAL ARRANGEMENTS**



5. **KNOWLEDGE, TRAINING AND EXPERIENCE**

- See essential requirements.

6. **SKILLS**

Communication and Relationship

- Receive sensitive and confidential information relating to patient conditions, which will inform any reports produced and investigations undertaken.
- Communicate verbally in writing or electronically with medical and other staff.

- Relate factual information to anxious patients and relatives regarding examinations and procedures.
 - Adapt explanations of tests to potentially unwell and terminally ill paediatric and adult patients, whose first language may not be English.
 - Persuade/negotiate and motivate e.g., upset children, distraught adults unwilling or afraid to comply with instructions.

Analytical and Judgement Skills

- Monitor and identify any changes in patient condition.
 - Respond promptly to emergency situations e.g., raise alarm, seek help, stop procedure etc.
 - Assist in cardiopulmonary resuscitation, by following national protocols in all areas of the department.
- Carry out patient clinical and physical assessment and adapt procedures to enhance patient results.
- Identify discrepancies and conflicting procedure results and consult with medical staff to seek a resolution.
- Identifying equipment faults and problem solving commensurate to level of expertise.

Planning and Organisational Skills

- Plan and prioritise own work effectively and efficiently, ensuring service priorities are met.
- Plan training and work schedules for junior staff and trainees.
- Plan appropriate event recorders in response to symptomology and patient circumstances to optimise long-term analysis.
- Ensure daily QA testing of equipment has been performed and that equipment is safe to use.

Physical Dexterity Skill Requirements

- Set up and calibrate haemodynamic monitoring systems during invasive coronary angiograms and percutaneous coronary intervention.
- Manoeuvre equipment safely and precisely at speed in the case of a cardiac arrest.
- Apply and position sensory electrodes, to aid computer analysis, and programming of internal devices and essential measurements.
- Use fine tools and connect multi lead attachments to a range of highly complex and specialised diagnostic computer and mapping systems.
- Finger dexterity whilst operating the ablator and cardiac stimulator, for quick on and off response.

7. KEY RESULT AREAS

Patient / client care

- Provide specialist clinical technical services and advice for patient/clients within the regional tertiary centre.
- Become competent and confident over time in:
 - Set up calibration and manipulation of invasive pressure monitoring systems ensuring accurate measurements on adult and paediatric patient during life threatening procedures.
 - Critical timing, calibration and augmentation of highly specialised life support machines essential for patient survival both pre and post

- operatively, and responsible for correct guidance in construction and size of invasive specialist devices used.
 - To ensure all equipment is sterilised correctly to ensure correct infection control protocols are followed. Need to be aware of infection control.
- Protect patient rights, ensuring confidentiality, privacy, data protection, safety and security and foster equality and diversity within the workplace.

Policy and Service Development

- Comply with departmental and Trust policies, procedures and guidelines, ensuring evidence-based patient care within the clinical area of responsibility.
- Pursue continuous professional development in line with service development.
- Implement policies within clinical areas of work in accordance with the service manager.
- Comment on proposed development of procedures/policy in own area of practice.

Financial and Physical Resources

- Responsible for the safe use of expensive or highly complex equipment used by self and others.
- Contribute to prudent stock management, and ensure tidiness and cleanliness is maintained in the work area at all times, ordering of supplies in certain areas is required.
- Follow departmental guidelines regarding safekeeping of patient property whilst in the department.

Human Resources

- Contribute to the delivery of specialist training within Cardiac Physiology.
 - Assist in teaching and assessment of trainees and junior cardiac physiologists.
- Provide day to day supervision for cardiac physiologists and trainees.
- Provide advice and support to less experienced staff including junior medical staff and other health care professionals.
- Demonstrate high professional standards as a role model to junior staff.

Information Resources

- Record patient data input test results and produce reports.
 - Clinical observation
 - Test results
 - Own case reports

Research and development

- Undertakes surveys or audits, as necessary to own work.
- Support the R&D undertaken by others.
 - Assist medical staff in obtaining data and results for their research trials.

8. FREEDOM TO ACT

- Works is guided by clear occupational policies, protocols, procedures and codes of conduct. (Society for Cardiological Science and Technology and the Registration Council for Clinical Physiologists).
- Work is managed with advice available.
 - Make professional decisions on patient care, liaising with senior Cardiac

- Physiologists or medical staff when appropriate.
- Free to challenge clinical procedures when it is felt unjustified.

9. EFFORT AND ENVIRONMENT

Physical

- Sit in restricted positions for long periods of time during complex and highly complex electrophysiology cases.
- Combination of standing bending and walking during the performance of tests in clinics and wards.
- Manoeuvre and transport equipment via trolleys around the hospital.
- Assist in the dressing and undressing of adult and paediatric patients.

Mental

- There is frequent requirement for concentration where the work pattern is predictable.
- There is occasional requirement for prolonged concentration during extended tests.
 - Critical attention to detail and alertness, essential throughout prolonged cases and when the patient is critically ill, and the outcome may involve CPR.

Emotional

- Occasional exposure to distressing or emotional circumstances, dealings with adult and paediatric patients with life threatening or debilitating conditions.
 - Pre- and post-operative patients' visits may be accompanied by emotional relatives.
 - Visiting adult ITU and paediatric ITU units.
- Exposed to highly emotional circumstances involving both adult and paediatric patients.
- Visits to regional mortuaries to deactivate implantable cardioverter defibrillators, in deceased patients.
- Able to deal with abusive and aggressive patients by following trust guidelines.

Working conditions

- Daily exposure to unpleasant body odours.
- Long periods of VDU viewing on a day-to-day basis.
- Exposure to radiation on a frequent basis, subject to specific health and safety regulations with the wearing of protective lead aprons for long periods during diagnostic and interventional procedures.
- Fluctuating temperature and lighting changes for long periods within some areas.

Signed:
(Post holder)

Date:

Signed:
(Directorate Manager or equivalent)

Date:

The Newcastle upon Tyne Hospitals NHS Foundation Trust

Person Specification

JOB TITLE: Specialist Cardiac Physiologist

BAND: 6

DIRECTORATE: Cardiothoracic Services

<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>
Qualifications & Education	<ul style="list-style-type: none"> • BSc (Hons) in Clinical Physiology (Cardiology) or equivalent. • Post graduate qualification (or equivalent experience) in either echocardiography or cardiac rhythm management (e.g., British Society of Echocardiography adult accreditation or Heart Rhythm UK accreditation) or working towards full completion. • RCCP (Registration Council for Clinical Physiologists) voluntary registration or equivalent i.e., HCPC or AHCS • Immediate Life Support certification 	<ul style="list-style-type: none"> • Advanced Life Support Resuscitation Certificate 	
Knowledge & Experience	<ul style="list-style-type: none"> • Post-qualification experience as a Cardiac Physiologist with evidence of continuing professional development and demonstrable competency in: <ul style="list-style-type: none"> ○ Ability to interpret ECG data and write a report of findings on ambulatory ECG recording. ○ Ability to set up and use hemodynamic recording and monitoring equipment in cardiac catheterization laboratory, including IABP set up and operation. ○ Ability to provide technical expertise at pacemaker implant and undertake pacemaker follow up or ability to perform echocardiograms with assisted reporting. ○ Ability to supervise exercise stress testing. • Experience of teaching, training and / or mentorship • Evidence of participation in practice development and CPD • Evidence of involvement in training junior staff 		
Skills & Abilities	<ul style="list-style-type: none"> • Good interpersonal and communication skills. • Availability for on-call work 		
Values / Behavioural / Attitudes	<ul style="list-style-type: none"> • Conscientious working attitude. 		
Core Behaviours	<ul style="list-style-type: none"> • Alignment to Trust Values and Core Behaviours • Take personal responsibility to: <ul style="list-style-type: none"> ○ engage with the Trust's Climate Emergency Strategy and Sustainable Healthcare in Newcastle (SHINE) initiatives. ○ assist in embedding our sustainability values into everyday 		

	<ul style="list-style-type: none">○ practice; and help ensure such practice is applied consistently by you and your colleagues		
--	--	--	--

CANDIDATE:

REFERENCE NO:

SIGNED BY:

DATE:

DESIGNATION: