

Royal Brompton and Harefield Hospitals

JOB DESCRIPTION

GENERAL INFORMATION

Title: Clinical Engineering Technical/Clinical Technologist

Grade: Band 5

Job base: Royal Brompton

Accountable to: HOD Clinical Engineering

Disclosure & Barring Service (DBS) checks: Standard

About the Trust

Guy's and St Thomas' NHS Foundation Trust comprises five of the UK's best known hospitals – Guy's, St Thomas', Evelina London Children's Hospital, Royal Brompton and Harefield – as well as community services in Lambeth and Southwark, all with a long history of high quality care, clinical excellence, research and innovation. We are among the UK's busiest, most successful foundation trusts. We provide specialist care for patients including heart and lung, cancer and renal services as well as a full range of local hospital and community services for people in Lambeth and Southwark. We have a long tradition of clinical and scientific achievement and – as part of King's Health Partners – we are one of England's eight academic health sciences centres, bringing together world-class clinical services, teaching and research. We have one of the National Institute for Health Research's biomedical research centres, established with King's College London in 2007, as well as dedicated clinical research facilities. We have around 22,700 staff, making us one of the largest NHS Trusts in the country and one of the biggest employers locally. We aim to reflect the diversity of the communities we serve and continue to develop new and existing partnerships with local people, patients, neighbouring NHS organisations, local authorities and charitable bodies and GPs. We strive to recruit and retain the best staff as the dedication and skills of our employees lie at the heart of our organisation and ensure that our services are of the highest quality, safe and focused on our patients.

Job summary

Clinical Engineering provides support to clinical staff giving advice and assistance in the use of medical equipment and systems throughout the hospital. Some current technology is complex and a level of technical understanding beyond its basic clinical

application is often required. Clinical Engineering Technologists endeavour to ensure that users of such equipment have detailed technical advice and support when needed, operating in the intensive clinical areas and interacting closely with medical, nursing and other technical staff, often assisting directly with patient interventions.

The Clinical Support Technologists also ensure that equipment in use in the clinical areas is fully functional and properly utilised. This includes first-line fault finding, simple breakdown repair, safety and operational testing, and preparation of complex equipment, such as renal dialysis equipment, for use. This involves setting up and testing equipment in situ as well as routine performance testing using the Department's quality control procedures.

Clinical Engineering Technologists also carry out technical service procedures to ensure the inventory of equipment remains safe and effective at all times.

- Gives advice and assistance in the use of medical equipment in the ITU including first-line fault finding and pre-use checks of specialist medical equipment.
- Assists the delivery of the clinical engineering service by carrying out acceptance testing and commissioning of new equipment, safety and operational testing and simple breakdown repairs following standard procedures.
- Ensures there is sufficient working equipment for clinical users to be able to deliver their services including the collection and provision of devices and consumables.
- Delivers informal and ad-hoc bedside training for clinical users

Main tasks and responsibilities

Communication

The post holder is responsible for

- Communicating clinical and technical information with medical, nursing and technical staff within the hospital, and with technical and sales staff in supplier companies.
- Working effectively as a team member within Clinical Engineering and with staff at all levels of the multidisciplinary team.
- Referring requests for Clinical Engineering service or advice to the appropriate Clinical Engineering staff. Communication must be accurate, concise and timely.
- Training staff in the operation of medical equipment.

Patient/customer care (both direct and indirect)

Technical support

The post holder is responsible for

- Carrying out testing and planned preventative maintenance on a wide range of standard medical equipment following standard procedures
- Carrying out testing and planned preventative maintenance on complex medical equipment such as ultrasound machines and renal dialysis equipment following standard procedures under supervision.
- Carrying out repairs on a wide range of standard medical equipment.
- Assisting with the installation and commissioning of new medical equipment and clinical systems in conjunction with other Clinical Engineering staff and external contractors.

Clinical support

The post holder is responsible for

- Carrying out pre-use function checks and calibrations on specialist medical equipment prior to patient use.
- Performing quality control and performance checks on near patient testing equipment.
- Setting up equipment patient circuits where applicable,
- Checking the operation of equipment whilst connected to a patient in response to user queries about correct functioning. Advising upon or rectifying errors or reporting any malfunctions to the Clinical Engineering technical support team.
- Performing routine daily or weekly checks and quality control procedures in accordance with the Department's policies
- Assisting with the provision of functioning medical equipment to clinical areas in response to requests from nursing or medical staff, prioritising according to clinical and operational need. This includes collecting equipment from storage, sterilisation or service areas and transporting it to the required clinical area.

Policy & Service development

The post holder is responsible for

- Complying with Hospital and Departmental policies and normal working practices.
- Ensuring for the safety of equipment with which they are involved and their working environment.
- Reporting any breaches of the safety regulations applicable to the Clinical Engineering equipment or the Health & Safety Act to the Head of Clinical Engineering.
- Implementing policies and proposing changes relating to own working area, but impacting on clinical equipment users in areas such as equipment storage and decontamination.
- Following the procedures embedded within the department's ISO 9001 quality system, suggesting improvements and highlighting non-conformances with them.

- Contributing to development of protocols and procedures for the maintenance and repair of medical equipment, based on guidance from the equipment manufacturers and national standards.

Resource management

The post holder is responsible for

- Ensuring the safe use of medical equipment by clinical staff, providing guidance and training when appropriate
- Reporting the consumption of spare parts, components and other supplies to the Senior Service Technologist
- Highlighting stock shortages

People management

The post holder is responsible for

- Providing advice and guidance to colleagues and clinical staff on the operation of medical equipment including when it is connected to and in operation on patients.
- Providing ad-hoc training for clinical staff on the use of medical equipment in the critical and ward areas.

Research

The post holder is responsible for

- Carrying out performance tests on equipment as part of evaluations or trials.

Information management

The post holder is responsible for

- Recording work on the department's medical equipment database, raising work orders and documenting all repairs and planned maintenance episodes.
- Using standard software packages as appropriate

Further sections

- To abide by the Trust's Core behaviours for staff and all other Trust policies, codes and practices including standing financial instructions, research governance, clinical governance, patient and public involvement, codes and practices, and health and safety.

Other duties

To undertake any other duties commensurate with the grade as requested.

This job description is intended as a basic guide to the scope and responsibilities of the post and is not exhaustive. It will be subject to regular review and amendment as necessary in consultation with the post holder.

ADDITIONAL INFORMATION

Trust mission

To be the leading national and international centre for the diagnosis, treatment and care of patients with heart and lung disease, creating and disseminating knowledge through research and education

Confidentiality

During the course of your employment you may have access to, see or hear information of a confidential nature and you are required not to disclose such information, particularly that relating to patients and staff.

In order to comply with the Data Protection Act 1998 you must not at any time use personal data held by the Trust for any unauthorised purpose or disclose such as data to a third party.

You must not make any disclosure to any unauthorised person or use any confidential information relating to the business affairs of the Trust, unless expressly authorised to do so by the Trust.

Health & Safety

Smoking

It is the policy of Royal Brompton & Harefield NHS Foundation Trust that all people who work for the Trust or, while on its premises, obtain treatment or visit the Trust in any capacity, do so without exposure to tobacco smoke, and so smoking of cigarettes and E-cigarettes is not allowed anywhere on any Trust premises.

The Trust aims to provide appropriate support, in partnership with local Occupational Health and Community Services, to ensure that Trust staff and patients can access practical help and support in their attempts to stop smoking.

This policy is based on clear evidence that, in addition to the health risks taken by smokers themselves, others who breathe in exhaled tobacco smoke (passive smokers) have increased risk of disease.

NHS Estates have notified all NHS agencies that E-Cigarettes and the charging there of are not permitted within any Trust property (including accommodation).

Diversity

You are at all times required to carry out your responsibilities with due regard to the Trust's Diversity policy and to ensure that colleagues or staff that you manage receive equal treatment throughout their employment with the Trust.

Risk management

All staff have a responsibility to report all clinical and non-clinical accidents or incidents promptly and, when requested, to co-operate with any investigation undertaken.

Conflict of interests

You may not without the consent of the Trust engage in any outside employment. In accordance with the Trust's Conflict of Interest policy, you must declare to your manager all private interests which could potentially result in personal gain as a consequence of your employment in the Trust. Interests that might appear to be in conflict should also be declared to your manager.

In addition, the NHS Code of Conduct and Standards of Business Conduct for NHS Staff (HSG 93/5) requires you to declare all situations where you or a close relative or associate has a controlling interest in a business (such as a private company, public organisation or other NHS voluntary organisation) or in any activity which may compete for any NHS contracts to supply goods or services to the Trust. You must therefore register such interests with the Trust, either on appointment or subsequently whenever such interests are gained. You should not engage in such interests without the written consent of the Trust, which will not be unreasonably withheld. It is your responsibility to ensure that you are not placed in a position that may give rise to a conflict between your private interest and your NHS duties.

CODE OF CONDUCT FOR PROFESSIONALLY QUALIFIED STAFF GROUPS

All staff are required to work in accordance with their professional group's code of conduct (e.g. NMC, GMC, DoH Code of Conduct for Senior Managers).

Disclosure & Barring Service checks (where relevant)

If the post has been identified as being an 'eligible position' under the *Rehabilitation of Offenders Act 1974 (Exceptions) Order 1975* or, in some cases, the *Police Act 1997*, it meets the eligibility criteria for a disclosure to be requested through the Disclosure and Barring Service (DBS). Where a DBS check is indicated above applicants who receive a conditional offer of employment will need to complete a satisfactory DBS check prior to the appointment being confirmed.

With the exception of Basic disclosure certificates which only contain information about spent convictions, all other DBS level checks will disclose both spent and unspent convictions, cautions (including reprimands and final warnings) which are not 'protected' as defined by the *Rehabilitation of Offenders Act 1974 (Exceptions Order) 1975 (as amended)*. Enhanced disclosures may also include other relevant police information where this is deemed relevant to the position you are applying for.

A criminal record will not necessarily bar you from appointment - that will depend on the nature of the position for which you are applying and the particular circumstances of the incident(s).

You are obliged to inform the Trust if at any time in the course of your employment you are the subject of a police investigation, or are convicted of a criminal offence.

You must also inform the Trust immediately if at any time during your employment you are the subject of an investigation by the Independent Safeguarding Authority or

are Barred from either its Children's Barred List or Adults' Barred List. Failure to comply with these requirements may result in disciplinary action. You will be committing a criminal offence if you seek to undertake or undertake any Regulated activity while Barred by the Independent Safeguarding Authority from either its Children's Barred List or Adults' Barred List.

Core behaviours for all Trust staff

All staff will:

- Act with honesty and integrity at all times
- Demonstrate respect for others and value diversity
- Focus on the patient and internal and external customer at all times
- Make an active contribution to developing the service
- Learn from and share experience and knowledge
- Keep others informed of issues of importance and relevance
- Consciously review mistakes and successes to improve performance
- Act as ambassadors for their directorate and the Trust
- Be aware of the impact of their own behaviour on others
- Be discreet and aware of issues requiring confidentiality

In addition, all managers and supervisors will:

- Value and recognise the ideas and contributions of all team members
- Coach individuals and teams to perform to the best of their ability
- Delegate work to develop individuals in their roles and realise their potential
- Give ongoing feedback on performance, and effectively manage poor performance
- Provide support and guidance to all team members
- Encourage their team to achieve work/personal life balance
- Actively listen to comments/challenges and respond constructively
- Lead by example, setting high standards
- Ensure that there are sufficient resources for their team and rebalance priorities accordingly
- Provide a safe working environment

Infection and Prevention Control

All Trust staff will:

- Act as a role model and champion for the highest standards of all aspects of infection prevention and control and implementation of all Infection Prevention and Control Trust policies and guidelines.
- Demonstrate respect for the roles and endeavours of others, in implementing good standards of hand hygiene.

Value and recognise the ideas and contributions of colleagues in their endeavours to reduce the incidence of healthcare associated infection.

The Royal Brompton & Harefield NHS Foundation Trust is a non-smoking Trust.

Confirmed as accurate by post holder:.....

Date:.....

Confirmed as accurate by manager:.....

Date:.....

Date:

PERSON SPECIFICATION

GENERAL INFORMATION

Post: Clinical Engineering Technologist
Grade: Band 5
Directorate/Department: Clinical Engineering

REQUIREMENTS	ESSENTIAL	DESIRABLE
EDUCATION & QUALIFICATIONS	Degree or Equivalent in relevant scientific or engineering discipline.	<ul style="list-style-type: none"> Registration with the Register of Clinical Technologists Specialist training in complex medical equipment.
EXPERIENCE & KNOWLEDGE	<p>Good numeric and literacy (verbal and written communication), ability to communicate at all levels.</p> <p>Good customer care practice</p> <p>Proven ability to effectively engage, influence and ensure commitment of users at all levels, with credibility and authority</p> <p>Sound understanding of basic physics, biology, chemistry and mechanics</p> <p>Basic understanding of physiology and clinical instrumentation theory and practice</p> <p>Ability to handle complex and sensitive information</p>	<p>Some experience in a clinical engineering dept., working with a wide range of medical equipment.</p> <p>Experience of ITU equipment and procedures.</p>
SKILLS & ABILITIES	<p>Ability to work in a team.</p> <p>Good analytical reasoning abilities</p> <p>Excellent organisational skills.</p>	<p>Ability to follow policies and work within a quality system, working without supervision</p>

	<p>Mechanical skills and practical acumen</p> <p>Proven ability to perform routine tasks to a consistent and high level</p> <p>Good record keeping and familiarity with computers and computer systems</p>	<p>to targets and goals set by line manager.</p> <p>Demonstrable skills of fault finding, repair and maintenance, assembly of complex delicate equipment using a range of tools, requiring a high level of dexterity and coordination.</p> <p>IT skills to include use of sophisticated equipment management system</p>
PERSONAL QUALITIES	<p>A high level of Interpersonal, written and verbal skills is required. A positive "can do" attitude and a positive attitude to change is essential for this post. Must have the ability to concentrate for extended periods, despite frequent interruptions from emergency requests for repairs.</p>	
OTHER REQUIREMENTS	<p>Must be capable of work needing frequent moderate physical effort, sometimes in awkward situations, and involving some lifting of heavy equipment. Must be able to work in stressful and demanding environments, such as wards and ITUs, with equipment connected to patients, who may be in pain or distress. Working conditions will involve exposure to dust fumes noise body fluids on equipment compressed gases and electrical hazards</p>	

Date: 2024