

JOB DESCRIPTION

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| POST: | Chief Critical Care Scientist |
| LOCATION: | Belfast Trust: SH&WH Obstetrics, Gynecology and Neonatology |
| BAND: | Band 7 |
| REPORTS TO: | Principal Critical Care Scientist |
| RESPONSIBLE TO: | Co-Director of Specialist Hospitals and Women's Health for all clinical matters and the principal Critical Care Scientist on all other matters |

Job Summary / Main Purpose

The post holder will have the responsibility for the day to day management of the scientific and technical support services in the Regional Neonatal Intensive Care Unit, Obstetric Delivery Suite, Theatres, Wards and other clinical areas designated by the Principle Critical Care Scientist.

Main/Clinical Responsibilities

- Deputise for the Principal Critical Care Scientist in the management of the Regional Neonatal Intensive Care Unit, High Dependency, Special Care, Obstetric Delivery Suite and Theatres
- Fault finding and repair in situ, where applicable (1st line) complex equipment including Ventilators, Non-Invasive CPAP ventilators, High Flow Systems, Incubators, Resuscitaires, Infusion Pumps, Vital Signs Monitoring, Regulated Hypothermia Cooling Equipment, Video Laryngoscopes, Defibrillators and any other equipment applied to patients in the critical care Setting.
- Use specialist and professional knowledge to critically analyze, using sound judgement and take appropriate action in remedying specialist equipment related to patient needs.

- Liaise and consult with a multi-disciplinary team of clinical specialists, providing specialist technical input and advice during emergency situations.
- Maintain and keep detailed records and follow up of any adverse incidents as per applicable protocol.
- Preparation, Calibration, Setup and Operation of technological diagnostic systems within Critical Care.
- Organising and planning preventative service/maintenance and calibration routines on a wide range of life support equipment in the critical care area.
- Support and train Neonatologists in the setup, correct use of and implementation of invasive and non-invasive monitoring equipment in critical care and high dependency areas.
- Perform pre-use safety checks on all equipment and devices while monitoring and confirming their operation is within expected parameters.
- Setup and test functionality of ventilators, non-invasive ventilation systems and ventilation support strategies including application of therapeutic drug administration.
- Supervise and control stock by maintaining supplies of spare parts, equipment consumables and disposables to ensure efficient delivery of service.
- Appropriately trained to take part when needed, as a team member, in the resuscitation of neonatal patients at delivery.
- Carry hospital pager and respond to urgent requests promptly, adjusting work load accordingly in line with task priorities.
- Participate in emergency On-Call service.
- Respond to and take urgent action where necessary to Medical Device Notices (MDAs) via the trust Datix system.
- Participate and Provide scientific/technical support to the variety of research projects undertaken within the Critical Care specialty.
- Transfer critically ill patients intra-hospital and inter-trust, ensuring safe and effective operation of monitoring and life support systems attached to the patient.
- Provide professional and technical support and advice to medical, nursing staff and allied health professionals on treatments, diagnostic and therapeutic devices.

- Manage the Nitric Oxide delivery (INOVENT) systems by maintaining spare parts, device calibration schedules, service contracts, disposables and documentation relating to the same.
- Competently carry out Point Of Care Testing (POCT) to include analysing blood samples and interpreting results to understand the clinical relevance relating to the clinical plan e.g. blood gases, electrolytes, co-oximetry, glucose/lactate.
- Perform preventative and remedial maintenance to POCT devices.
- Perform Internal and external Quality control checks on POCT devices and report results back to colleagues in the Trust laboratories for national profiling through the Welsh External Quality Assessment Scheme.
- Deliver training sessions to clinicians and nursing staff on a regular basis on the safe use and practical application of all life support and critical care equipment. Working with the practice educators within Regional Neonatal ICU and RJMS Obstetric areas to structure a program of regular training in house and via HRPTS to ensure nursing and midwifery staff, remain fully competent in the use of the specialist equipment in their areas.
- Responsible for Bronchoscopy/Difficult airway management equipment and provide this service to Consultant led medical staff during emergency intubation, tracheostomy, bronchoscopy and other emergency airway procedures.
- Use various precision test instruments e.g. multi-parameter simulators to assess the accuracy and/or calibrate medical devices essential to patient recovery in the critical setting.
- Responsible for the decontamination of medical devices maintaining production records including the tracking and traceability records where applicable.
- Demonstrate continuing professional development in accordance with the Society of Critical Care Technologies (Professional Body) code of practice.
- Maintain a high standard of records management, results and carry out associated administrative tasks as assigned.
- Any other duties assigned by principal Critical Care Scientist.

Management Responsibilities

- Day to day responsibility when required for a team of people.
- Participate as and when required in selection and recruitment of Professional and technical staff.
- Organise and plan the Clinical Education of Critical Care Scientist trainees and other Critical Care Scientists, in relation to Critical Care Scientific/Technical matters ensuring and being responsible for their continuing professional development and appraisals.
- Support the principle Critical Care Scientist in the introduction, management and implementation of new technology within the multi-disciplinary team ensuring correct training/use/familiarisation of the equipment to staff in line with health and safety requirements.
- Responsible for the ordering and maintenance of non-stock and specialist supplies for all areas within clinical scientific/technical areas within assigned Specialist Hospitals and Women's Health directorate, using and being fully conversant with the e-procurement system.
- Deputise for Principle Critical Care Scientist at senior staff/committee meetings.
- Assist in the investigation and compilation of technical and scientific reports on untoward incidents, defects or hazards as required.
- Ensure all equipment is serviced as per manufactures schedules and distributors guidelines.
- Liaise with members of the estates department, outside agencies and companies with regard to maintenance, installation and commissioning of equipment within Critical Care.
- Be responsible for planned preventative maintenance of critical care equipment on an ongoing basis and accurate record keeping relating to the same.
- In conjunction with senior management, write appropriate business cases, product specifications etc. in order to ensure adequate supplies to meet service needs.

- Participate on trust and regional panels (Contract Adjudication Groups) in selection of consumables and equipment procurement within own area of expertise (to include trialling and evaluation).
- Responsible for maintaining documentation and detailed records of equipment, service, repairs etc.
- Any other managerial duties assigned.

General Responsibilities

Employees of the Trust are required to promote and support the mission and vision of the service for which they are responsible and:

- At all times provide a caring service and to treat those with whom they come into contact in a courteous and respectful manner.
- Demonstrate their commitment by their regular attendance and the efficient completion of all tasks allocated to them.
- Comply with the Trust's Smoke Free Policy.
- Carry out their duties and responsibilities in compliance with the Health and Safety Policies and Statutory Regulations.
- Adhere to Equality and Good Relations duties throughout the course of their employment.
- Ensure the ongoing confidence of the public in-service provision.
- Maintain high standards of personal accountability.
- Comply with the HPSS Code of Conduct.

Information Governance

All employees of Belfast Health & Social Care Trust are legally responsible for all records held, created or used as part of their business within the Belfast Health and Social Care Trust, including patient/client, corporate and administrative records whether paper based or electronic and also including e-mails. All such records are public records and are accessible to the general public, with limited exceptions, under the Freedom of Information Act 2000, the Environment Regulations 2004, the General Data Protection Regulation (GDPR) and the Data Protection Act 2018. Employees are required to be conversant and to comply with the Belfast Health and Social Care Trust policies on Information Governance including for example the ICT Security Policy, Data Protection Policy and Records Management Policy and to seek advice if in doubt.

For further information on how we use your personal data within HR, please refer to the Privacy Notice available on the HUB or Your HR

Environmental Cleaning Strategy

The Trusts Environmental Cleaning Strategy recognizes the key principle that “Cleanliness matters is everyone’s responsibility, not just the cleaners” Whilst there are staff employed who are responsible for cleaning services, all Trust staff have a responsibility to ensure a clean, comfortable, safe environment for patients, clients, residents, visitors, staff and members of the general public.

Infection Prevention and Control

The Belfast Trust is committed to reducing Healthcare associated infections (HCAs) and all staff have a part to play in making this happen. Staff must comply with all policies in relation to Infection Prevention and Control and with ongoing reduction strategies. Standard Infection Prevention and Control Precautions must be used at all times to ensure the safety of patients and staff.

This includes:-

- Cleaning hands either with soap and water or a hand sanitiser at the appropriate times (WHO ‘5 moments’);
- Using the correct ‘7 step’ hand hygiene technique;
- Being ‘bare below the elbows’ when in a clinical environment;
- Following Trust policies and the Regional Infection Control Manual (found on intranet);
- Wearing the correct Personal Protective Equipment (PPE);
- Ensuring correct handling and disposal of waste (including sharps) and laundry;
- Ensuring all medical devices (equipment) are decontaminated appropriately i.e. cleaned, disinfected and/or sterilised;
- Ensuring compliance with High Impact Interventions.

Values

The Belfast Trust aims to recruit staff not only with the right skills but also with the right values to ensure the delivery of excellent patient care and experience. Staff will be expected to be committed to provide safe, effective, compassionate and person centered care by:-

- Treating Everyone with Dignity and Respect
- Displaying Openness and Trust
- Being Accountable
- Being Leading Edge
- Maximising Learning and Development

By embedding the above values we will make a significant contribution to the delivery of the Trust’s Vision.

Personal Public Involvement

Staff members are expected to involve patients, clients, carers and the wider community where relevant, in developing, planning and delivering our services in a meaningful and effective way, as part of the Trust's ongoing commitment to Personal Public Involvement (PPI).

Please use the link below to access the PPI standards leaflet for further information.

http://www.publichealth.hscni.net/sites/default/files/PPI_leaflet.pdf

Clause: ***This job description is not meant to be definitive and may be amended to meet the changing needs of the Belfast Health and Social Care Trust.***

PERSONNEL SPECIFICATION

JOB TITLE AND BAND: Critical Care Scientist / Band 7

DEPT / DIRECTORATE: Specialist Hospitals and Women’s Health

Notes to applicants:

1. You must clearly demonstrate on your application form under each question, how you meet the required criteria as failure to do so may result in you not being shortlisted. You should clearly demonstrate this for both the essential and desirable criteria.
2. Shortlisting will be carried out on the basis of the essential criteria set out in Section 1 below, using the information provided by you on your application form. Please note the Trust reserves the right to use any desirable criteria outlined in Section 3 at shortlisting. You must clearly demonstrate on your application form how you meet the desirable criteria.
3. Proof of qualifications and/or professional registration will be required if an offer of employment is made – if you are unable to provide this, the offer may be withdrawn.

| ESSENTIAL CRITERIA | | |
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| <p>The following are ESSENTIAL criteria which will initially be measured at shortlisting stage although may also be further explored during the interview/selection stage. You should therefore make it clear on your application form whether or not you meet these criteria. Failure to do so may result in you not being shortlisted. The stage in the process when the criteria will be measured is stated below.</p> | | |
| Factor | Criteria | Method of Assessment |
| Experience Qualifications Registration | <p>BSc in Electrical and Electronic Engineering, Computer Science, Biomedical Engineering or Biomedical Science (Other Relevant Science Degrees may be considered) and 3 years experience as CCS Band 6</p> <p>OR</p> <p>Higher Level Diploma (HND) in a Science or Electronic Engineering related subject and 5 years experience as CCS Band 6</p> <p>Must participate in an Emergency On-Call rota providing 24 hour callout and telephone</p> | Shortlisting by Application Form |

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| | <p>support cover.</p> <p>Ability to use initiative and work efficiently and effectively under pressure, prioritising and responding to urgent tasks as and when they occur within the critical care setting.</p> <p>Possess highly effective communication skills in order to competently explain the correct and safe use of technical equipment to clinical staff within Critical Care</p> <p>Experience of delivering training to a multi-disciplinary (clinical) team.</p> <p>Flexible approach to shifts to suit the needs of the service.</p> | |
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DESIRABLE CRITERIA

Desirable criteria will **ONLY** be used where it is necessary to introduce additional job related criteria to ensure files are manageable. You should therefore make it clear on your application form how you meet these. Failure to do so may result in you not being shortlisted.

| Factor | Criteria | Method of Assessment |
|---|---|----------------------------------|
| Experience Qualifications Registration | <p>Knowledge of Anatomy/Physiology of Humans</p> <p>Highly competent level of experience working with computer applications and systems</p> <p>Registration with Society Critical Care Technologist UK</p> <p>Able to work as part of a multi-disciplinary team in a Critical Care environment.</p> | Shortlisting by Application Form |

NOTE:

Where educational/professional qualifications form part of the criteria you will be required, if shortlisted for interview, to produce original certificates, and one photocopy of same, issued by the appropriate authority. Only those certificates relevant to the shortlisting criteria should be produced. If educational certificates are not available an original letter and photocopy of same detailing examination results

from your school or college will be accepted as an alternative.

If successful you will be required to produce documentary evidence that you are legally entitled to live and work in the United Kingdom. This documentation can be a P45, Payslip, National Insurance Card or a Birth Certificate confirming birth in the United Kingdom or the Republic of Ireland. Failure to produce evidence will result in a non-appointment.