

## JOB DESCRIPTION

JOB DETAILS	
<b>Job Title</b>	Mechanical Technologist
<b>Reports to</b>	Senior Mechanical Engineer
<b>Band</b>	Band 5
<b>Department/Directorate</b>	Mechanical Workshop (Radiotherapy Physics) / Clinical Specialist Services

JOB PURPOSE
<ul style="list-style-type: none"> <li>To provide safe, effective and timely technical support for a wide range of medical and non-medical devices across the Trust and community sites, including standard ward-based devices and specialised equipment used in Surgery/Medicine/Specialist Services and Renal services.</li> <li>Performs a range of routine and non-routine tasks within the Mechanical Workshop team carrying out routine device manufacturing, equipment support activities and non-routine breakdown assessment and repair.</li> <li>Required to update electronic systems as required to document all activities.</li> <li>Supports Clinical staff advising solution design of equipment and ancillary parts.</li> <li>Supporting senior staff for commissioning and testing of new equipment.</li> <li>Attending technical training as required to carry out functions safely and according to manufacturer's guidance.</li> <li>To work flexibly to meet the service delivery of mechanical workshop.</li> </ul>

KEY RESULT AREAS / PRINCIPAL DUTIES AND RESPONSIBILITIES
<ul style="list-style-type: none"> <li>Prioritises work and responds effectively to changing circumstances including emergency repair / breakdown requests.</li> <li>Works flexibly, dealing with interruptions and responding to changing priorities.</li> <li>Competent to perform planned manufacture, maintenance of complex equipment and perform corrective maintenance on highly complex medical (and non-medical) devices and systems.</li> <li>Understands the specific hazards associated with medical devices for own area of work, e.g. infection control, dust, compressed gases and electricity.</li> <li>Evaluates and commission's new equipment.</li> <li>Able to follow and understand highly complex servicing manuals and service documentation.</li> <li>Ability to manage changes and development within specialist area, undertaking medical device manufacture, servicing, calibration and repairs.</li> <li>Transportation of medical devices to support service or repair requirements.</li> <li>Packing and dispatching medical devices for repair, calibration or service to external agencies.</li> <li>Maintaining detailed records of medical device defects, work undertaken, materials used and other expenditure in accordance with the departmental quality management system.</li> <li>Undertaking cleaning and decontamination of medical devices as required.</li> <li>Maintaining a stock of spare parts and consumables as required.</li> <li>Ensuring that all current Health &amp; Safety standards are adhered to.</li> <li>Assisting in the continuous development of a high quality and responsive maintenance service.</li> <li>Ensuring all work that is undertaken is of a high quality and is performed safely, promptly and in a cost-effective manner.</li> <li>Undertaking any other duties that may be required.</li> <li>Willing and able to learn new skills to enhance self and the service.</li> <li>Able to work under instruction in a prompt and accurate manner.</li> </ul>

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- The ability to receive and interpret technical information used to service or repair medical devices.
- Establish a portfolio of continuous professional development (CPD).
- Learning supported to work towards membership of the RCT (Register of Clinical Technologists) to meet entry criteria if not already a member.
- Planning and organising own workload with team members, ensuring good resource management to achieve positive outcomes.

## KEY WORKING RELATIONSHIPS

Areas of Responsibility: Mechanical Workshop

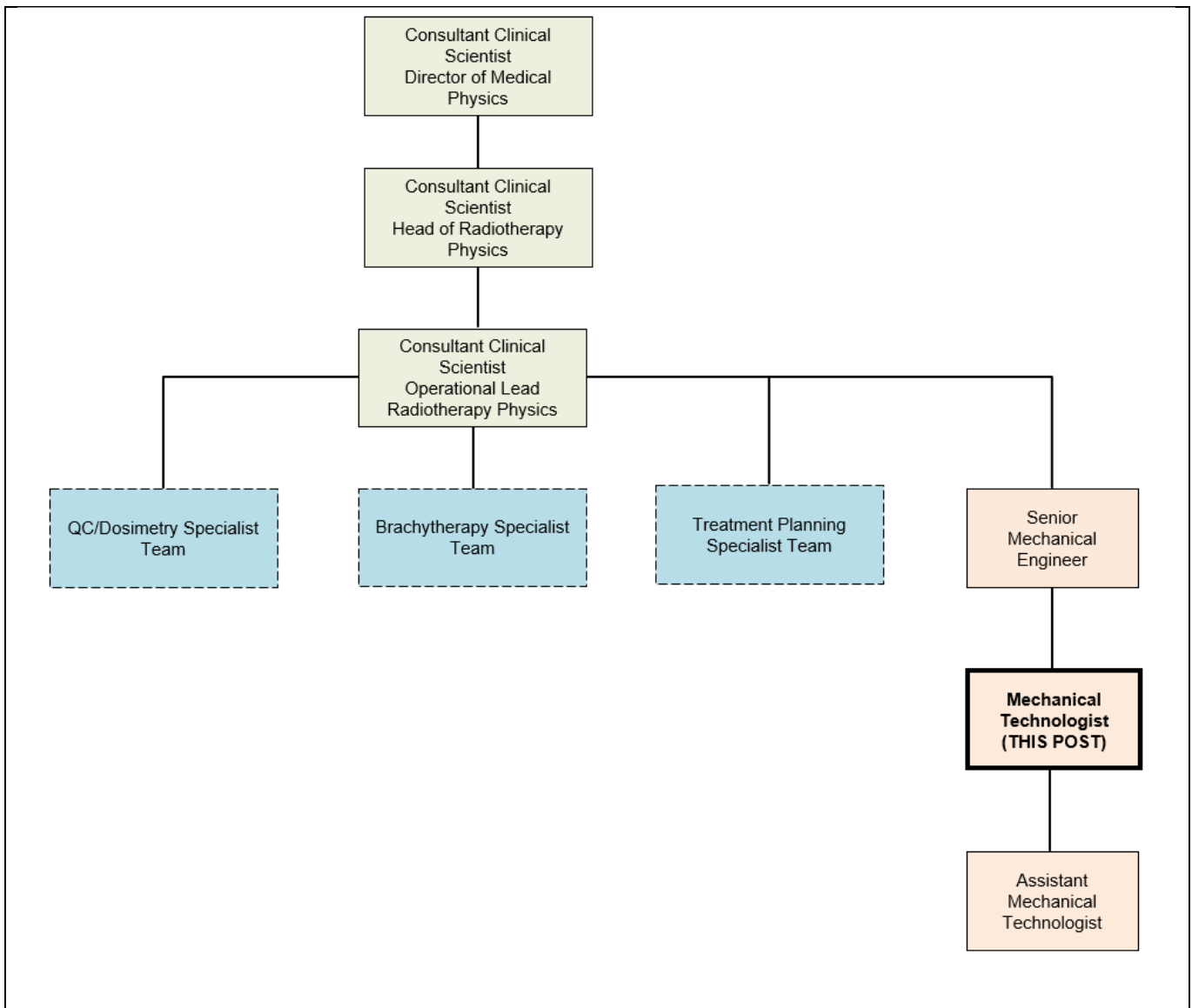
No. of Staff reporting to this role: see organisational chart below.

The post holder is required to deal effectively with staff of all levels throughout the Trust as and when they encounter on a day to day basis. In addition, the post holder will deal with the wider healthcare community and the public. This will include verbal, written and electronic media.

Of particular importance are working relationships with:

Internal to the Trust	External to the Trust
<ul style="list-style-type: none"> <li>• Service Manager.</li> <li>• Chief Mechanical Engineer/Manager.</li> <li>• Clinical Scientists Senior Clinical Technologists.</li> <li>• Clinical Technologists.</li> <li>• Medical Staff, inc. Consultants, Doctors, Nursing Staff, AHPs and OPDs.</li> <li>• Administration Teams.</li> </ul>	<ul style="list-style-type: none"> <li>• Service Users.</li> <li>• Equipment Manufacturers and Suppliers.</li> <li>• Patients and their families / relatives.</li> <li>• PCT, DPT and GP surgeries.</li> </ul>

## ORGANISATIONAL CHART



### FREEDOM TO ACT

- Freedom to plan own daily workload of maintenance tasks with reference to Chief Engineers monthly plans.
- Following set manufacture and maintenance processes and documenting all works carried out, working unsupervised across areas of responsibility.
- Adjusting and responding to urgent jobs and/or breakdowns within area of competency.
- Understand limits of own knowledge and competency and escalate concerns to Line Manager as necessary.

### COMMUNICATION / RELATIONSHIP SKILLS

- Communicating technical information to clinical users around status of medical equipment.
- Arranges service visits, taking into account equipment and staff availability and operational requirements.
- Ability to overcome barriers of communication to convey complex technical information, adapting communication styles and routes.
- Escalating any immediate or foreseeable complex medical equipment issues to clinical area senior staff, advising of avenues for resolution.
- Communicating effectively and courteously with colleagues, staff, external organisations and members of the public both verbally and electronically as required.

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- Working across varied clinical settings may involve dealing with challenging behaviour - rarely (in areas dealing with mental or behavioural issues) therefore requiring strong interpersonal communication skills and a calm approach.
- Provides support and training for junior technical staff, trainees, students and medical staff.
- Attending and participating in technical team and departmental meetings and discussions.

#### **ANALYTICAL / JUDGEMENTAL SKILLS**

- Carrying out routine servicing following guidance and technical manuals.
- Competent to perform planned manufacturing, maintenance, diagnose complex equipment faults and perform corrective maintenance on highly complex medical devices and systems.
- Carrying out works requiring fault finding upon equipment within training limitations and referring to senior staff as necessary.
- Technical judgements required involving facts and situations which require analysis.
- Highlighting any repeated requests, faults or trends to senior staff for further investigation.

#### **PLANNING / ORGANISATIONAL SKILLS**

- Working within technical team by discussion and planning to achieve department target.
- Planning workload with reference to team objectives and varying priorities.
- Maintaining an effective and efficient use of time management.

#### **PATIENT / CLIENT CARE**

- Indirect, working in clinical areas where equipment is still attached to patients, adhering to local health and safety/infection control with reference to senior clinical staff.
- Provides a clinical technical service, manufacturing, and repairing diagnostic & therapeutic equipment and devices for use in patient care.

#### **POLICY / SERVICE DEVELOPMENT**

- Participation in team meetings to improve & develop department wide procedures promoting safer and more efficient processes for the technical workforce, aligning to new technologies within medical equipment and aligning within core objectives, proposing changes to practices and processes and implementing the changes.

#### **FINANCIAL / PHYSICAL RESOURCES**

- Responsible for own time and use of parts to resolve issues in carrying out planned and unplanned job requests.
- Consideration given to build and/or repair costs, highlighting where needed if not economical.
- Responsible for high value equipment ensuring safe and correct use.
- Ensuring physical assets are kept in a safe and functional state during installation and full lifecycle of equipment, working with staff to highlight any areas of mis-use or unsafe conditions ensuring safe working practices at all times.

#### **HUMAN RESOURCES**

- To take part in regular performance appraisal.
- Supporting and supervising junior staff /assistant technicians, providing technical training and continual process improvement.

#### **INFORMATION RESOURCES**

- Maintaining and processing of relevant information associated with the design and production of medical devices.
- Inputting servicing information into the computerised asset management system.

#### **RESEARCH AND DEVELOPMENT**

- Establish a portfolio of continuous professional development (CPD).

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- Regularly evaluates medical (and non-medical) equipment and devices.

### **PHYSICAL SKILLS**

- Expert use of specialist hand and electronic machining tools, which requires excellent hand / eye co-ordination and configuration to employ.

### **PHYSICAL EFFORT**

- Frequent moving of heavy loads up to 25kg, requiring moderate effort moving equipment and supplies utilising trollies as required.
- Occasional use of moving and handling equipment for installation and removal of medical equipment in patient environment.

### **MENTAL EFFORT**

- Frequent requirement to concentrate for long periods of time and follow set processes.
- Frequent requirement to manage multiple interruptions and respond and adjust workplans to compensate.

### **EMOTIONAL EFFORT**

- Exposure to emotional circumstances is rare.

### **WORKING CONDITIONS**

- Working within technical workshop, adhering to department health and safety policy and national regulations.
- Working within clinical areas frequently, where incidental contact with patients may occur.
- Working with equipment which may have been exposed to bodily fluids.
- Moderate use of VDU.
- Ability to work in clinical locations, ensuring safe working practices for staff, patients and self – ensuring electrical safety and physical safety around equipment are maintained at all times.

### **OTHER RESPONSIBILITIES**

Take part in regular performance appraisal.

Undertake any training required in order to maintain competency including mandatory training, e.g. Manual Handling

Contribute to and work within a safe working environment

You are expected to comply with Trust Infection Control Policies and conduct him/herself at all times in such a manner as to minimise the risk of healthcare associated infection

As an employee of the Trust, it is a contractual duty that you abide by any relevant code of professional conduct and/or practice applicable to you. A breach of this requirement may result in action being taken against you (in accordance with the Trust's disciplinary policy) up to and including dismissal.

You must also take responsibility for your workplace health and wellbeing:

- When required, gain support from Occupational Health, Human Resources or other sources.
- Familiarise yourself with the health and wellbeing support available from policies and/or Occupational Health.
- Follow the Trust's health and wellbeing vision of healthy body, healthy mind, healthy you.
- Undertake a Display Screen Equipment assessment (DES) if appropriate to role.

### **GENERAL**

This is a description of the job as it is now. We periodically examine employees' job descriptions and update them to ensure that they reflect the job as it is then being performed, or to incorporate any

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changes being proposed. This procedure is conducted by the manager in consultation with the jobholder. You will, therefore, be expected to participate fully in such discussions. We aim to reach agreement on reasonable changes, but if agreement is not possible, we reserve the right to insist on changes to your job description after consultation with you.

Everyone within the Trust has a responsibility for, and is committed to, safeguarding and promoting the welfare of vulnerable adults, children and young people and for ensuring that they are protected from harm, ensuring that the Trusts Child Protection and Safeguarding Adult policies and procedures are promoted and adhered to by all members of staff.

At the Royal Devon, we are committed to reducing our carbon emissions and minimising the impact of healthcare on the environment, as outlined in our Green Plan available on our website. We actively promote sustainable practices and encourage colleagues to explore and implement greener ways of working within their roles.



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WORKING CONDITIONS/HAZARDS		FREQUENCY (Rare/ Occasional/ Moderate/ Frequent)			
		R	O	M	F
Laboratory specimens	Y	X			
Contact with patients	Y				
Exposure Prone Procedures	N				
Blood/body fluids	Y	X			
<b>Hazard/Risks requiring Respiratory Health Surveillance</b>					
Solvents (e.g. toluene, xylene, white spirit, acetone, formaldehyde and ethyl acetate)	Y			X	
Respiratory sensitisers (e.g isocyanates)	N				
Chlorine based cleaning solutions (e.g. Chlorclean, Actichlor, Tristel)	Y		X		
Animals	N				
Cytotoxic drugs	N				
<b>Risks requiring Other Health Surveillance</b>					
Radiation (>6mSv)	N				
Laser (Class 3R, 3B, 4)	N				
Dusty environment (>4mg/m3)	Y				X
Noise (over 80dBA)	Y				X
Hand held vibration tools (=>2.5 m/s <sup>2</sup> )	Y				X
<b>Other General Hazards/ Risks</b>					
VDU use (> 1 hour daily)	Y			X	
Heavy manual handling (>10kg)	Y			X	
Driving	Y	X			
Food handling	N				
Night working	N				
Electrical work	Y				X
Physical Effort	Y			X	
Mental Effort	Y				X
Emotional Effort	Y	X			
Working in isolation	Y			X	
Challenging behaviour	Y	X			