

The Research & Development (R&D) section aims to identify solutions to clinical problems involving the application of science, engineering and technology to healthcare.

They initiate and/or participate in collaborative Research and Development projects and support innovation relating to medical devices. By identifying appropriate routes for commercialisation of devices, processes or technologies developed, where relevant and in collaboration with the Technology Transfer Experts within the Trust.

Based at Addenbrooke's Hospital, the Clinical Engineering team are a unique resource in the east of England. Very few other Trusts in the UK support clinical engineering on such a scale.

The Clinical Engineering team, all highly skilled scientists or technologists, provide essential Trust-wide support for patient-related equipment.

There are five specialist sections: Medical Electronics, Anaesthetic & Clinical Equipment, Mechanical Engineering, Renal Technical Services and R&D. In addition the Medical Equipment Library provides a range of medical devices to numerous locations throughout the Trust.

To complement these sections a full administration service is available to ensure the efficient management of medical devices.

Access is available for all users to our 'Medical Devices Web Portal' through Connect, which provides guidance on the procurement and support of all Trust owned medical devices.

<http://connect/index.cfm?articleid=5599>

Addenbrooke's Hospital NHS Trust

Clinical Engineering

Level 5 A Block

Box 152

Hills Road

Cambridge

CB2 0QQ

Telephone: Ext. 2716

Fax: 7029

Email: [clinicalengineering@addenbrookes.nhs.uk](mailto:clinicalengineering@addenbrookes.nhs.uk)

## Clinical Engineering Service

**Clinical Engineering Services' primary aim is to provide overall scientific and technical support to the principles and commitment of Cambridge University Hospitals NHS Foundation Trust.**

**In order to achieve this aim, Clinical Engineering Services shall strive, as one of its organisational goals, to satisfy customer expectations and needs by providing quality services safely, effectively and efficiently.**

The role of the Clinical Engineering is to provide the full range of medical equipment management services and to ensure that whenever a medical device is used it is suitable for the intended purpose and maintained in a safe and reliable condition.

**Clinical Engineering will endeavour to:**

*Provide products and services to every customer with courtesy, effectiveness and efficiency in a welcoming, safe environment.*

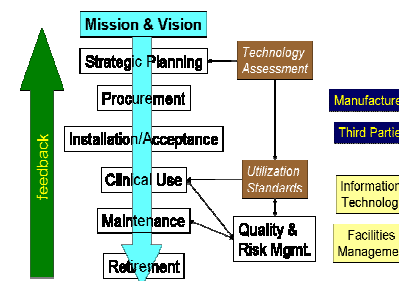
*We promise to keep our customers at the focus of our activities in order to deliver customer satisfaction while regularly monitoring and reviews are undertaken.*



**Clinical Engineering**  
**A comprehensive range of scientific and technical services to support clinicians of all disciplines**

Clinical Engineering is involved in the complete life cycle of a medical device

### TECHNOLOGY MANAGEMENT LIFE CYCLE



*For all your Medical Device needs*

**Tel: 2716**

### Renal Technical Services — Ext 3833

The Renal Technical Services section provides essential technical support services to the Trust's busy Dialysis Centre.

Support is given to patients both at the Centre and in the home. Our team maintains various dialysis machines, and other associated equipment including chair beds, weigh scales and measuring devices.

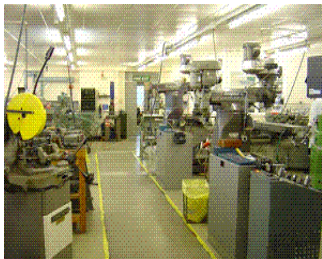
In addition it has a very important role in monitoring water-treatment plants throughout the Dialysis Centre, because the water that is used for dialysis must be of a very high quality.



### Mechanical Engineering — Ext 2503

The Mechanical Engineering section provides a comprehensive, quality mechanical engineering resource for all health professionals in the east of England. Services include:

- Design,
- Development and manufacture,
- Prototyping,
- Testing and calibration
- Repairs



Our workshop contains a wide range of high quality engineering equipment, including computer controlled machines, welding and test equipment.

## Clinical Engineering Services

*"Delivering Engineering services to secure safe and effective healthcare"*

### Medical Electronics — Ext 3030

The Medical Electronics section provides the necessary technical support and electronics expertise to all areas of the Trust utilising electrical and electronic medical devices. With the increased use of technology in medicine, specialist advice is needed to maintain and advise on critical equipment.

Of the numerous items of Medical Equipment that Clinical Engineering look after Medical Electronics provide a facility which includes commissioning, testing, planned maintenance, repairing and disposal for the majority of these devices.



All types of diagnostic and therapeutic medical equipment are covered, including diagnostic imaging equipment, defibrillators, infusion pumps and multi-parameter patient monitors.

### Medical Equipment Library — Ext 58287

The Medical equipment Library is a 24 hour service, 7 days a week. A Library of electronic devices that are shared across many Wards. Information on available devices can be viewed on the Medical Devices Web Portal.

All requests for devices should be made using the Estates and Facilities Helpdesk on ext 2696.

A sample of devices available include infusion pumps, monitors and VAC therapy units.



### Anaesthetic & Clinical Equipment — Ext 2253

The Anaesthetic & Clinical Equipment section specialises in the maintenance and repair of all gas related medical devices.

These range from high-dependency equipment such as life-saving ventilators and anaesthetic machines to the basic flow meter and suction devices located in most areas.

Essential support is given to adult and paediatric intensive care units, critical-care units, operating theatres and the Rosie Hospital.

They are directly responsible for ensuring anaesthetic and clinical equipment is:

- Safe
- Effective

