

Published on *Health Careers* (https://www.healthcareers.nhs.uk)

<u>Home > Explore roles > Healthcare science > Roles in healthcare science > Physical sciences and biomedical engineering > Clinical engineering</u>

# Clinical engineering

Clinical engineering staff check and maintain medical equipment to make sure it is safe to use and operating correctly.

Hospitals and NHS staff in the community rely on an increasingly wide range of medical equipment to provide excellent care to patients, so your role is vitally important.

## Life as a clinical engineer

You'll need a background in electronic or mechanical engineering and the confidence and willingness to take a hands-on approach.

You'll enjoy a varied and exciting role maintaining and ensuring the safety of a wide range of medical equipment. This could range from simple devices such as nebulisers to sophisticated and life-saving equipment like radiotherapy [1] linear accelerators.

With experience, you can develop your role and gain greater responsibility to modify and construct equipment.

You will be responsible for managing medical equipment through its life cycle, ensuring that parts are replaced, guaranteeing that machines are always safe to use.

A typical day may include:

- testing new equipment
- introducing equipment and devices into service
- advising on the correct use of equipment
- addressing patient safety issues
- safely disposing of old devices

#### **Hollie Owen**

Apprentice medical engineer

It makes me feel good knowing that the equipment I fixed will go and help a patient get the treatment they need.

Read Hollie's story [2]

### How much can I earn?

You'll be employed on a national pay and conditions system called <u>Agenda for Change (AfC)</u> [3] . Below are examples of the pay band you'll be on, depending on your role within neurophysiology:

- healthcare science assistant B2/3
- healthcare science associate B4
- healthcare science practitioner B5
- Cclinical scientist B6/7/8a
- consultant clinical scientist B8a-d

### How about the benefits?

- make a difference
- flexible and part-time working
- high income early in your career
- work anywhere in the world
- excellent pension scheme
- good holiday entitlement
- NHS discounts in shops and restaurants

## How to become a clinical engineer

Starting your career in clinical engineering might be easier than you think. You could undertake study at university or find an apprenticeship that takes you straight into a job.

There are a wide variety of entry levels into clinical engineering such as assistant or level 2 apprenticeships, associate practitioner roles, level 4 apprenticeships.

There are also Bachelor degrees/degree apprenticeships, Master's degrees and Higher Specialist Scientist Training.

See 'How to become a healthcare science professional' [4] for details.

# **Must-have skills**

- excellent communication skills to manage a wide range of relationships with colleagues, patients and their families?
- emotional resilience, a calm temperament and the ability to work well under pressure?
- teamwork and the capacity to lead multidisciplinary teams?
- problem-solving and diagnostic skills?
- outstanding?organisational?ability and effective decision-making skills?

• first-class time and resource management for the benefit of patients

## **Entry requirements**

There are several different ways to start your career in clinical engineering, depending on your experience and qualifications.

### **Apprenticeship**

You could look for an entry level job/level 2 apprenticeship – typically GCSEs 9-4/A-C in maths, English and a science. If an apprenticeship feels right for you, you'll need 5 GCSEs at 9-4/A-C (or equivalent) including maths, English and science or Level 2 Diploma in Healthcare Science to start a level 4 apprenticeship.

### **Associate practitioner**

An associate practitioner role is another route to a career in clinical engineering. You'll likely require foundation degree, or equivalent experience with training and experience to NVQ level 3.

### Degree-level qualification

A level 6 apprenticeship or degree course require relevant level 3 qualifications, for example three A-levels (including at least one science subject) or an Access to higher education course.

### Post-graduate

To start the NHS Scientist Training Programme, you'll need a 1st or 2:1 in relevant first degree or relevant higher degree and 2:2 in a relevant subject.

Higher Specialist Scientist Training is available for registered clinical scientists with relevant MSc or specialist diploma.

## Where a career in clinical engineering can take you

Working in clinical engineering can lead to registration as a Clinical Scientist. You can then move into senior and consultant Clinical Scientist roles, through the <u>Higher Specialist Scientist</u> Training (HSST) programme [5].

It can also lead to careers in academia, research, industry, management and leadership and training.

Live vacancies

# Find a vacancy

#### Enter your location or postcode

#### Show results within

#### Search

### Apprentice Clinical Engineer - MEMO Clinical Engineering

Bristol, BS2 8HW

Salary:

£24625.00 to £25674.00

Type:

Apprenticeship

Employer:

University Hospitals Bristol and Weston NHS Foundation Trust (UHBW)

Apply now on NHS Jobs for Apprentice Clinical Engineer - MEMO Clinical

Engineering job (opens in a new window) [6]

### Junior Medical Engineering Technician - York

York, YO31 8HE

Salary:

£27485.00 to £30162.00

Type:

Permanent

Employer:

York Teaching Hospital Facilities Management (LLP)

Apply now on NHS Jobs for Junior Medical Engineering Technician - York job

(opens in a new window) [7]

### Radiotherapy Engineer (Clinical)

Oxford, OX3 7HE

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

Oxford University Hospitals NHS Foundation Trust

<u>Apply now on NHS Jobs for Radiotherapy Engineer (Clinical) job (opens in a new window)</u>

[8]

#### Medical Devices Safety Engineer

Tadworth, KT20 5RU

Salary:

£38000.00

Type:

Permanent

Employer:

The Children's Trust

Apply now on NHS Jobs for Medical Devices Safety Engineer job (opens in a new window) [9]

### Medical Engineering Technician (Home Ventilation & Community)

317 02 Royal Victoria Infirmary, NE1 4LP

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

The Newcastle upon Tyne Hospitals NHS Foundation Trust

Apply now on NHS Jobs for Medical Engineering Technician (Home Ventilation & Community) job (opens in a new window) [10]

### Clinical Engineering HCS Specialist

Bradford, BD9 6RJ

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

Bradford Teaching Hospitals NHS Foundation Trust

Apply now on NHS Jobs for Clinical Engineering HCS Specialist job (opens in a new window) [11]

## Clinical Engineering Community Technician

Cottingham, HU16 5JQ

Salary:

£26530.00 to £29114.00

Type:

Permanent

Employer:

Hull University Teaching Hospitals NHS Trust

Apply now on NHS Jobs for Clinical Engineering Community Technician job (opens in a new window) [12]

### Specialist Clinical Engineering Technician

Poole, BH15 2JB

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

University Hospitals Dorset NHS Foundation Trust

Apply now on NHS Jobs for Specialist Clinical Engineering Technician job (opens in a new window) [13]

#### Mechanical Engineer

Poole, BH15 2JB

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

University Hospitals Dorset NHS Foundation Trust

Apply now on NHS Jobs for Mechanical Engineer job (opens in a new window) [14]

### Platform Engineer

Newcastle Upon Tyne, NE15 8NY

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

**NHS Business Services Authority** 

Apply now on NHS Jobs for Platform Engineer job (opens in a new window) [15]

### Mechanical Engineer

Rainham, RM13 8HY

Salary:

£59490.00 to £66239.00

Type:

Permanent

Employer:

London Ambulance Service NHS Trust

#### Junior Analytics Engineer

Cwmbran, NP44 3HR

Salary:

£30420.00 to £37030.00

Type:

Permanent

Employer:

Aneurin Bevan University Health Board

Apply now on NHS Jobs for Junior Analytics Engineer job (opens in a new window)

### Craftsman (Mechanical Engineering)

Plymouth, PL6 8DH

Salary:

£26530.00 to £29114.00

Type:

Permanent

Employer:

University Hospitals Plymouth NHS Trust

Apply now on NHS Jobs for Craftsman (Mechanical Engineering) job (opens in a new window) [18]

## Craftsman (Mechanical Engineering)

Plymouth, PL6 8DH

Salary:

£26530.00 to £29114.00

Type:

Permanent

Employer:

University Hospitals Plymouth NHS Trust

Apply now on NHS Jobs for Craftsman (Mechanical Engineering) job (opens in a new window) [19]

### Engineering Tradesperson Electrical

Bridgend, CF31 1SQ

Salary:

£30420.00 to £37030.00

Type:

Permanent

Employer:

Cwm Taf Morgannwg University Health Board

<u>Apply now on NHS Jobs for Engineering Tradesperson Electrical job (opens in a new window)</u> [20]

### Craftsman (Electrical Engineering)

Plymouth, PL6 8DH

Salary:

£26530.00 to £29114.00

Type:

Permanent

Employer:

University Hospitals Plymouth NHS Trust

Apply now on NHS Jobs for Craftsman (Electrical Engineering) job (opens in a new window) [21]

### Shift Engineer - Electrical

Liverpool, L14 5AB

Salary:

£42000.00 to £45000.00

Type:

Permanent

Employer:

Care & Custody - A Mitie Company

Apply now on NHS Jobs for Shift Engineer - Electrical job (opens in a new window)

### Digital Test Engineer

Reading, RG1 5AN

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

Royal Berkshire NHS Foundation Trust

Apply now on NHS Jobs for Digital Test Engineer job (opens in a new window) [23]

### Research Software Engineer

Cambridge, CB2 0QQ

Salary:

£53755.00 to £60504.00

Type:

Fixed-Term

Employer:

Cambridge University Hospital NHS Foundation Trust

Apply now on NHS Jobs for Research Software Engineer job (opens in a new window) [24]

### Mechanical Engineering Craftsperson

Wrexham, LL13 7TD

Salary:

£30420.00 to £37030.00

Type:

Permanent

Employer:

Betsi Cadwaladr University Health Board

Apply now on NHS Jobs for Mechanical Engineering Craftsperson job (opens in a new window) [25]

### Senior Electronics Engineer

Didcot, OX11 0RQ

Salary:

£42758.00 to £48543.00

Type:

Permanent

Employer:

**UK Health Security Agency** 

Apply now on NHS Jobs for Senior Electronics Engineer job (opens in a new window) [26]

### Senior Clinical Technologist/Dialysis Technical Services Engineer

Cardiff, CF14 4HY

Salary:

£37898.00 to £45637.00

Type:

Permanent

Employer:

Cardiff and Vale University Health Board

Apply now on NHS Jobs for Senior Clinical Technologist/Dialysis Technical Services Engineer job (opens in a new window) [27]

### Engineering Technician (Multi-skilled)

Brighton, BN2 5BE

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

University Hospitals Sussex NHS Foundation Trust (279)

Apply now on NHS Jobs for Engineering Technician (Multi-skilled) job (opens in a new window) [28]

### Engineering Technician (Electrical Bias)

Worthing, BN11 2DH

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

University Hospitals Sussex NHS Foundation Trust (279)

Apply now on NHS Jobs for Engineering Technician (Electrical Bias) job (opens in a new window) [29]

#### Senior IT Server Engineer

Guildford, GU2 7XX

Salary:

£48270.00 to £54931.00

Type:

Permanent

Employer:

Royal Surrey NHS Foundation Trust

Apply now on NHS Jobs for Senior IT Server Engineer job (opens in a new window) [30]

### Electro-Biomedical Engineer (EBME)

London, SW17 0QT

Salary:

£44806.00 to £53134.00

Type:

Permanent

Employer:

St George's University Hospitals NHS Foundation Trust

<u>Apply now on NHS Jobs for Electro-Biomedical Engineer (EBME) job (opens in a new window)</u>
[31]

### Electrical/Mechanical Engineering Craftsperson

Bangor, LL57 2PW

Salary:

£30420.00 to £37030.00

Type:

Permanent

Employer:

Betsi Cadwaladr University Health Board

Apply now on NHS Jobs for Electrical/Mechanical Engineering Craftsperson job (opens in a new window) [32]

### Senior Network & Telecoms Engineer

Port Talbot, SA12 7BR

Salary:

£46840.00 to £53602.00

Type:

Permanent

Employer:

Swansea Bay University Health Board

Apply now on NHS Jobs for Senior Network & Telecoms Engineer job (opens in a new window) [33]

### Senior Client Devices Engineer

Brighton, BN2 5BE

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

University Hospitals Sussex NHS Foundation Trust (279)

Apply now on NHS Jobs for Senior Client Devices Engineer job (opens in a new window) [34]

### Administrator - Wheelchair Maintenance & Rehabilitation Engineering

London, SE14 5RS

Salary:

£31081.00 to £33665.00

Type:

Permanent

Employer:

King's College Hospital NHS Foundation Trust

Apply now on NHS Jobs for Administrator - Wheelchair Maintenance &

Rehabilitation Engineering job (opens in a new window) [35]

### Engineering Tradesperson – (Core Trade Electrical)

Merthyr Tydfil, CF47 9DT

Salary:

£30420.00 to £37030.00

Type:

Permanent

Employer:

Cwm Taf Morgannwg University Health Board

Apply now on NHS Jobs for Engineering Tradesperson – (Core Trade Electrical) job (opens in a new window) [36]

### Vehicle Technician/Fleet Engineer - Didcot

Didcot, OX11 8RY

Salary:

£39150.31 to £45805.00

Type:

Permanent

Employer:

South Central Fleet Services Ltd

Apply now on NHS Jobs for Vehicle Technician/Fleet Engineer - Didcot job (opens in a new window) [37]

### Vehicle Technician/Fleet Engineer - Nursling

Southampton, SO16 0YU

Salary:

£39150.31 to £45805.00

Type:

Permanent

Employer:

South Central Fleet Services Ltd

Apply now on NHS Jobs for Vehicle Technician/Fleet Engineer - Nursling job (opens in a new window) [38]

## Vehicle Technician/Fleet Engineer - Aylesbury

Aylesbury, HP20 1BH

Salary:

£39150.31 to £45805.00

Type:

Permanent

Employer:

South Central Fleet Services Ltd

Apply now on NHS Jobs for Vehicle Technician/Fleet Engineer - Aylesbury job (opens in a new window) [39]

### Engineering Tradesperson – (Core Trade Electrical)

Merthyr Tydfil, CF47 9DT

Salary:

£30420.00 to £37030.00

Type:

Permanent

Employer:

Cwm Taf Morgannwg University Health Board

Apply now on NHS Jobs for Engineering Tradesperson – (Core Trade Electrical)
job (opens in a new window) [40]

#### Electrical Engineering Technician (Multi-skilled)

Haywards Heath, RH16 4EX

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

University Hospitals Sussex NHS Foundation Trust (279)

Apply now on NHS Jobs for Electrical Engineering Technician (Multi-skilled) job (opens in a new window) [41]

### Ambulance Vehicle Engineer - Coventry Workshop

Coventry, CV6 6JR

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

West Midlands Ambulance Service University NHS Foundation Trust Apply now on NHS Jobs for Ambulance Vehicle Engineer - Coventry Workshop job (opens in a new window) [42]

### Mechanical Maintenance Engineer – Hospital Facilities

Taunton, TA1 5DA

Salary:

£26530.00 to £29114.00

Type:

Permanent

Employer:

Somerset NHS Foundation Trust

Apply now on NHS Jobs for Mechanical Maintenance Engineer – Hospital Facilities job (opens in a new window) [43]

### Specialist Rehab Engineering Digital Manufacturing Technician

North Chailey, Near Lewes, East Sussex, East sussex, BN8 4JN

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

Sussex Community NHS Foundation Trust

Apply now on NHS Jobs for Specialist Rehab Engineering Digital Manufacturing Technician job (opens in a new window) [44]

### Clinical Medical Photographer

Gorleston, NR31 6LA

Salary:

£29970.00 to £36483.00

Type:

Fixed-Term

Employer:

James Paget University Hospitals NHS Foundation Trust Apply now on NHS Jobs for Clinical Medical Photographer job (opens in a new

window) [45]

#### Medical and Clinical Administrator

Dawley, TF4 3JS

Salary:

£24625.00 to £25674.00

Type:

Permanent

Employer:

Midlands Partnership NHS Foundation Trust

Apply now on NHS Jobs for Medical and Clinical Administrator job (opens in a new window) [46]

### o Advanced Clinical Practitioner - Droylsden Medical Practice

Manchester, M437NP

Salary:

£54075.00 to £60638.00

Type:

Permanent

Employer:

**Gtd Healthcare** 

Apply now on NHS Jobs for Advanced Clinical Practitioner - Droylsden Medical Practice job (opens in a new window) [47]

#### Advanced Clinical Practitioner - Lindley Medical Practice

Oldham, OL1 1NL

Salary:

£54075.00 to £60638.00

Type:

Permanent

Employer:

**Gtd Healthcare** 

Apply now on NHS Jobs for Advanced Clinical Practitioner - Lindley Medical Practice job (opens in a new window) [48]

### Senior Clinical Fellow in Gastrointestinal Medical Oncology

London, NW1 2BU

Salary:

£70425.00

Type:

Fixed-Term

Employer:

University College London Hospitals NHS Foundation Trust

Apply now on NHS Jobs for Senior Clinical Fellow in Gastrointestinal Medical

Oncology job (opens in a new window) [49]

# Further information

- Academy for Healthcare Science [50]
- Health and Care Professions Council [51]
- Institution of Physics and Engineering in Medicine [52]
- National School of Healthcare Science [53]
- UCAS [54]

## Other roles that may interest you

- Clinical or medical technology in medical physics [55]
- Medical device risk management and governance [56]
- Knowledge and library services [57]
- Health records staff [58]

**Source URL:**https://www.healthcareers.nhs.uk/Explore-roles/healthcare-science/roles-healthcare-science/physical-sciences-and-biomedical-engineering/clinical-engineering

#### Links

[1] https://www.healthcareers.nhs.uk/glossary#Radiotherapy [2] https://www.healthcareers.nhs.uk/exploreroles/healthcare-science/roles-healthcare-science/physical-sciences-and-biomedical-engineering/medicalengineering/real-life-story-hollie-owen [3] https://www.healthcareers.nhs.uk/working-health/workingnhs/nhs-pay-and-benefits/agenda-change-pay-rates [4] https://www.healthcareers.nhs.uk/exploreroles/healthcare-science/how-become-healthcare-science-professional [5] https://www.healthcareers.nhs.uk/career-planning/developing-your-health-career/nhs-higher-specialistscientist-training [6] https://beta.jobs.nhs.uk/candidate/jobadvert/C9387-25-1047 [7] https://beta.jobs.nhs.uk/candidate/jobadvert/M9419-25-0061 [8] https://beta.jobs.nhs.uk/candidate/jobadvert/C9321-25-0743 [9] https://beta.jobs.nhs.uk/candidate/jobadvert/B0474-25-0081 [10] https://beta.jobs.nhs.uk/candidate/jobadvert/C9317-25-0779 [11] https://beta.jobs.nhs.uk/candidate/jobadvert/C9389-25-0481 [12] https://beta.jobs.nhs.uk/candidate/jobadvert/C9356-25-0545 [13] https://beta.jobs.nhs.uk/candidate/jobadvert/C9153-25-0650 [14] https://beta.jobs.nhs.uk/candidate/jobadvert/C9153-25-0631 [15] https://beta.jobs.nhs.uk/candidate/jobadvert/G9914-25-0115 [16] https://beta.jobs.nhs.uk/candidate/jobadvert/C9308-25-0050 [17] https://beta.jobs.nhs.uk/candidate/jobadvert/H9040-25-0866 [18] https://beta.jobs.nhs.uk/candidate/jobadvert/C9216-25-0670 [19] https://beta.jobs.nhs.uk/candidate/jobadvert/C9216-25-0719 [20] https://beta.jobs.nhs.uk/candidate/jobadvert/H9110-25-0833 [21] https://beta.jobs.nhs.uk/candidate/jobadvert/C9216-25-0672 [22] https://beta.jobs.nhs.uk/candidate/jobadvert/E0059-25-0001 [23] https://beta.jobs.nhs.uk/candidate/jobadvert/C9193-25-0482 [24] https://beta.jobs.nhs.uk/candidate/jobadvert/C9180-25-0373 [25] https://beta.jobs.nhs.uk/candidate/jobadvert/H9050-25-1656 [26] https://beta.jobs.nhs.uk/candidate/jobadvert/K9919-25-0226 [27] https://beta.jobs.nhs.uk/candidate/jobadvert/H9001-25-0459 [28] https://beta.jobs.nhs.uk/candidate/jobadvert/C9279-25-0980 [29] https://beta.jobs.nhs.uk/candidate/jobadvert/C9279-25-0991 [30] https://beta.jobs.nhs.uk/candidate/jobadvert/C9384-25-0466 [31] https://beta.jobs.nhs.uk/candidate/jobadvert/C9200-25-0664 [32] https://beta.jobs.nhs.uk/candidate/jobadvert/H9050-25-1616 [33] https://beta.jobs.nhs.uk/candidate/jobadvert/H9130-25-0491 [34] https://beta.jobs.nhs.uk/candidate/jobadvert/C9279-25-1056 [35] https://beta.jobs.nhs.uk/candidate/jobadvert/C9213-25-0607 [36] https://beta.jobs.nhs.uk/candidate/jobadvert/H9110-25-0803 [37] https://beta.jobs.nhs.uk/candidate/jobadvert/M9195-25-0023 [38] https://beta.jobs.nhs.uk/candidate/jobadvert/M9195-25-0024 [39] https://beta.jobs.nhs.uk/candidate/jobadvert/M9195-25-0025 [40] https://beta.jobs.nhs.uk/candidate/jobadvert/H9110-25-0834 [41] https://beta.jobs.nhs.uk/candidate/jobadvert/C9279-25-0998 [42] https://beta.jobs.nhs.uk/candidate/jobadvert/C9217-029-25-26 [43] https://beta.jobs.nhs.uk/candidate/jobadvert/C9184-25-0932 [44] https://beta.jobs.nhs.uk/candidate/jobadvert/C9150-25-0352 [45] https://beta.jobs.nhs.uk/candidate/jobadvert/C9177-25-0217 [46] https://beta.jobs.nhs.uk/candidate/jobadvert/C9301-25-0675 [47] https://beta.jobs.nhs.uk/candidate/jobadvert/U0061-25-0065 [48] https://beta.jobs.nhs.uk/candidate/jobadvert/U0061-25-0066 [49] https://beta.jobs.nhs.uk/candidate/jobadvert/C9309-25-0604 [50] http://www.ahcs.ac.uk [51] http://www.hcpc-uk.org/ [52] http://www.ipem.ac.uk/ [53] http://www.nshcs.hee.nhs.uk/ [54]

http://www.ucas.com [55] https://www.healthcareers.nhs.uk/explore-roles/healthcare-science/roles-

healthcare-science/physical-sciences-and-biomedical-engineering/clinical-or-medical-technology-medical-physics [56] https://www.healthcareers.nhs.uk/explore-roles/healthcare-science/roles-healthcare-science/physical-sciences-and-biomedical-engineering/medical-device-risk-management-and-governance [57] https://www.healthcareers.nhs.uk/explore-roles/health-informatics/roles-health-informatics/knowledge-and-library-services [58] https://www.healthcareers.nhs.uk/Explore-roles/wider-healthcare-team/roles-wider-healthcare-team/health-records-staff