

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 [Agenda for Change \(AfC\)](#) ^[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
- Clinical 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 Higher Specialist Scientist 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

- **Medical Engineer/Technologist**

Manchester, M20 4BX

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

The Christie NHS FT

[Apply now on NHS Jobs for Medical Engineer/Technologist job \(opens in a new window\)](#) ^[6]

- **Specialist Medical Engineering Technician (Internal Only)**

Victoria Road, Macclesfield, SK10 3BL

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

East Cheshire NHS Trust

[Apply now on NHS Jobs for Specialist Medical Engineering Technician \(Internal Only\) job \(opens in a new window\)](#) ^[7]

- **Rehabilitation Engineering Practitioner- Engineer**

Swansea, SA6 6NL

Salary:

£37898.00 to £45637.00

Type:

Permanent

Employer:

Swansea Bay University Health Board

[Apply now on NHS Jobs for Rehabilitation Engineering Practitioner- Engineer job \(opens in a new window\)](#) ^[8]

- **Clinical Engineering Technician - Huntingdon**

Hinchingbrooke, PE29 6NT

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

North West Anglia NHS Foundation Trust

[Apply now on NHS Jobs for Clinical Engineering Technician - Huntingdon job \(opens in a new window\)](#) ^[9]

- **Electrical Engineer**

Essex, RM13 8HY

Salary:

£59490.00 to £66239.00

Type:

Permanent

Employer:

London Ambulance Service NHS Trust

[Apply now on NHS Jobs for Electrical Engineer job \(opens in a new window\)](#) ^[10]

- **Engineering Tradesperson Electrical**

Bridgend, CF31 1SQ

Salary:

£30420.00 to £37030.00

Type:

Permanent

Employer:

Cwm Taf Morgannwg University Health Board

[Apply now on NHS Jobs for Engineering Tradesperson Electrical job \(opens in a new window\)](#) ^[11]

- **Cyber Security Engineer**

Milton Keynes, MK6 5LD

Salary:

£35392.00 to £42618.00

Type:

Permanent

Employer:

Milton Keynes University Hospital NHS Foundation Trust

[Apply now on NHS Jobs for Cyber Security Engineer job \(opens in a new window\)](#) ^[12]

- **Security Infrastructure Engineer**

Borehamwood, WD6 1JN

Salary:

Negotiable

Type:

Permanent

Employer:

Elysium Healthcare

[Apply now on NHS Jobs for Security Infrastructure Engineer job \(opens in a new window\)](#) ^[13]

- **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 \(opens in a new window\)](#) ^[14]

- **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 \(opens in a new window\)](#) ^[15]

- **Higher Electronics Engineer**

Didcot, OX11 0RQ

Salary:

£34093.00 to £41509.00

Type:

Permanent

Employer:

UK Health Security Agency

[Apply now on NHS Jobs for Higher Electronics Engineer job \(opens in a new window\)](#) ^[16]

- **Decontamination Maintenance Engineer**

Burton-On-Trent, DE13 0RB

Salary:

£35706.00 to £43465.00

Type:

Permanent

Employer:

University Hospitals of Derby and Burton NHS Foundation Trust

[Apply now on NHS Jobs for Decontamination Maintenance Engineer job \(opens in a new window\)](#) ^[17]

- **Security Operations Engineer**

Borehamwood, WD6 1JN

Salary:

£50000.00 to £60000.00

Type:

Permanent

Employer:

Elysium Healthcare

[Apply now on NHS Jobs for Security Operations Engineer job \(opens in a new window\)](#) ^[18]

- **Engineering Apprentice (Electrical)**

Plymouth, PL6 8AX

Salary:

£26530.00 to £29114.00

Type:

Permanent

Employer:

University Hospitals Plymouth NHS Trust

[Apply now on NHS Jobs for Engineering Apprentice \(Electrical\) job \(opens in a new window\)](#) ^[19]

- **Fire Safety Engineer**

Bristol, BS2 8HW

Salary:

£53755.00 to £60504.00

Type:

Fixed-Term

Employer:

University Hospitals Bristol and Weston NHS Foundation Trust (UHBW)

[Apply now on NHS Jobs for Fire Safety Engineer job \(opens in a new window\)](#) ^[20]

- **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 \(opens in a new window\)](#) ^[21]

- **Ambulance Vehicle Engineer (Mechanic)**

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 \(Mechanic\) job \(opens in a new window\)](#) ^[22]

- **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 \(opens in a new window\)](#) ^[23]

- **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 \(opens in a new window\)](#) ^[24]

- **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 \(opens in a new window\)](#) ^[25]

- **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 \(opens in a new window\)](#) ^[26]

- **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 \(opens in a new window\)](#) ^[27]

- **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 \(opens in a new window\)](#) ^[28]

- **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 \(opens in a new window\)](#) ^[29]

- **3D Digital Biomedical Engineer/Technician**

London, SE5 9RW

Salary:

£54320.00 to £60981.00

Type:

Permanent

Employer:

King's College Hospital NHS Foundation Trust

[Apply now on NHS Jobs for 3D Digital Biomedical Engineer/Technician job \(opens in a new window\)](#) ^[30]

- **Multi Skilled Electrical / Mechanical Engineering Apprentice**

Gateshead, NE96SX

Salary:

£16817.00

Type:

Apprenticeship

Employer:

QE Facilities

[Apply now on NHS Jobs for Multi Skilled Electrical / Mechanical Engineering Apprentice job \(opens in a new window\)](#) ^[31]

- **Engineering Tradesperson (Core Trade Electrical) - Days**

Swansea, SA6 6NL

Salary:

£30420.00 to £37030.00

Type:

Permanent

Employer:

Swansea Bay University Health Board

[Apply now on NHS Jobs for Engineering Tradesperson \(Core Trade Electrical\) - Days job \(opens in a new window\)](#) ^[32]

- **Specialist Clinical Practitioner (Non- Medical Prescriber)**

Exmouth, EX8 4DD

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

Devon Partnership NHS Trust

[Apply now on NHS Jobs for Specialist Clinical Practitioner \(Non- Medical Prescriber\) job \(opens in a new window\)](#) ^[33]

- **Clinical Coder - Tieve Tara Medical Centre**

Castleford, WF10 2QP

Salary:

£26530.00 to £29114.00

Type:

Permanent

Employer:

Spectrum Community Health CIC

[Apply now on NHS Jobs for Clinical Coder - Tieve Tara Medical Centre job \(opens in a new window\)](#) ^[34]

- **Senior Clinical Fellow Emergency Medicine 80:20 Medical Examiner**

Bristol, BS2 8HW

Salary:

£61825.00 to £70425.00

Type:

Fixed-Term

Employer:

University Hospitals Bristol and Weston NHS Foundation Trust (UHBW)

[Apply now on NHS Jobs for Senior Clinical Fellow Emergency Medicine 80:20 Medical Examiner job \(opens in a new window\)](#) ^[35]

- **Medical Secretary**

Thames Ditton, KT7 0UP

Salary:

£12.50

Type:

Permanent

Employer:

Thorkhill Surgery

[Apply now on NHS Jobs for Medical Secretary job \(opens in a new window\)](#) ^[36]

- **Medical Receptionist**

Manchester, M32 0PA

Manchester, M160LW

Salary:

Negotiable

Type:

Permanent

Employer:

North Trafford Group Practice

[Apply now on NHS Jobs for Medical Receptionist job \(opens in a new window\)](#) ^[37]

- **Medical Receptionist**

Southport, PR9 7LT

Salary:

Negotiable

Type:

Permanent

Employer:

Churchtown Medical Centre

[Apply now on NHS Jobs for Medical Receptionist job \(opens in a new window\)](#) ^[38]

- **Medical Receptionist**

Penzance, TR18 4EL

Salary:

£12.21

Type:

Fixed-Term

Employer:

Morrab Surgery

[Apply now on NHS Jobs for Medical Receptionist job \(opens in a new window\)](#) ^[39]

- **Medical Receptionist**

Durham, DH6 4DH

Salary:

Negotiable

Type:

Permanent

Employer:

Coxhoe Medical Practice

[Apply now on NHS Jobs for Medical Receptionist job \(opens in a new window\)](#) ^[40]

- **Medical Secretary**

Ipswich, IP1 5EN

Ipswich, IP1 6DW

Ipswich, IP1 4BX

Salary:

Negotiable

Type:

Permanent

Employer:

Cardinal Medical Practice

[Apply now on NHS Jobs for Medical Secretary job \(opens in a new window\)](#) ^[41]

- **Medical Receptionist**

Nantwich, CW5 5NX

Salary:

Negotiable

Type:

Permanent

Employer:

Nantwich Health Centre

[Apply now on NHS Jobs for Medical Receptionist job \(opens in a new window\)](#) ^[42]

- **Medical Secretary**

Sleaford, NG34 7HD

Salary:

Negotiable

Type:

Permanent

Employer:

Sleaford Medical Group

[Apply now on NHS Jobs for Medical Secretary job \(opens in a new window\)](#) ^[43]

- **Medical Secretary**

Cambridge, CB250AE

Salary:

Negotiable

Type:

Permanent

Employer:

Burwell Surgery

[Apply now on NHS Jobs for Medical Secretary job \(opens in a new window\)](#) ^[44]

- **Medical Administrator**

Crickhowell, NP8 1AG

Salary:

Negotiable

Type:

Permanent

Employer:

Crickhowell Group practice

[Apply now on NHS Jobs for Medical Administrator job \(opens in a new window\)](#) ^[45]

- **Medical Receptionist**

Sheffield, S8 0SH

Salary:

Negotiable

Type:

Permanent

Employer:

Woodseats Medical Centre

[Apply now on NHS Jobs for Medical Receptionist job \(opens in a new window\)](#) ^[46]

- **Medical Secretary**

Yeovil, BA21 4AT

Salary:

£24625.00 to £25674.00

Type:

Fixed-Term

Employer:

Somerset NHS Foundation Trust

[Apply now on NHS Jobs for Medical Secretary job \(opens in a new window\)](#) ^[47]

- **Medical Administrator**

Romford, RM1 4QJ
Romford, RM6 6RT

Salary:

Negotiable

Type:

Permanent

Employer:

North Street Medical Care

[Apply now on NHS Jobs for Medical Administrator job \(opens in a new window\)](#) [48]

- **Medical Secretary**

Bodelwyddan, LL18 5UJ

Salary:

£24433.00 to £26060.00

Type:

Fixed-Term

Employer:

Betsi Cadwaladr University Health Board

[Apply now on NHS Jobs for Medical Secretary 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?career=AHP>

Links

[1] <https://www.healthcareers.nhs.uk/glossary#Radiotherapy> [2] <https://www.healthcareers.nhs.uk/explore-roles/healthcare-science/roles-healthcare-science/physical-sciences-and-biomedical-engineering/medical-engineering/real-life-story-hollie-owen> [3] <https://www.healthcareers.nhs.uk/working-health/working->

[nhs/nhs-pay-and-benefits/agenda-change-pay-rates](https://www.healthcareers.nhs.uk/explore-roles/healthcare-science/how-become-healthcare-science-professional) [4] <https://www.healthcareers.nhs.uk/explore-roles/healthcare-science/how-become-healthcare-science-professional> [5] <https://www.healthcareers.nhs.uk/career-planning/developing-your-health-career/nhs-higher-specialist-scientist-training> [6] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9413-25-0426> [7] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9209-25-0307> [8] <https://beta.jobs.nhs.uk/candidate/jobadvert/H9130-25-0545> [9] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9176-25-0313> [10] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9308-25-0053> [11] <https://beta.jobs.nhs.uk/candidate/jobadvert/H9110-25-0833> [12] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9430-25-0364> [13] <https://beta.jobs.nhs.uk/candidate/jobadvert/E0132-25-1034> [14] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9216-25-0672> [15] <https://beta.jobs.nhs.uk/candidate/jobadvert/E0059-25-0001> [16] <https://beta.jobs.nhs.uk/candidate/jobadvert/K9919-25-0236> [17] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9320-25-0768> [18] <https://beta.jobs.nhs.uk/candidate/jobadvert/E0132-25-1032> [19] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9216-25-0783> [20] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9387-25-1102> [21] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9279-25-0980> [22] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9217-045-25-26> [23] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9384-25-0466> [24] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9279-25-0991> [25] <https://beta.jobs.nhs.uk/candidate/jobadvert/H9110-25-0803> [26] <https://beta.jobs.nhs.uk/candidate/jobadvert/M9195-25-0028> [27] <https://beta.jobs.nhs.uk/candidate/jobadvert/H9110-25-0834> [28] <https://beta.jobs.nhs.uk/candidate/jobadvert/M9195-25-0026> [29] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9279-25-0998> [30] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9213-25-0687> [31] <https://beta.jobs.nhs.uk/candidate/jobadvert/M9297-25-0107> [32] <https://beta.jobs.nhs.uk/candidate/jobadvert/H9130-25-0543> [33] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9369-25-0483> [34] <https://beta.jobs.nhs.uk/candidate/jobadvert/E9847-25-0222> [35] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9387-25-1094> [36] <https://beta.jobs.nhs.uk/candidate/jobadvert/A5562-25-0004> [37] <https://beta.jobs.nhs.uk/candidate/jobadvert/A4025-25-0005> [38] <https://beta.jobs.nhs.uk/candidate/jobadvert/A5909-25-0000> [39] <https://beta.jobs.nhs.uk/candidate/jobadvert/A1184-25-0005> [40] <https://beta.jobs.nhs.uk/candidate/jobadvert/A5385-25-0000> [41] <https://beta.jobs.nhs.uk/candidate/jobadvert/A0397-25-0003> [42] <https://beta.jobs.nhs.uk/candidate/jobadvert/A2511-25-0003> [43] <https://beta.jobs.nhs.uk/candidate/jobadvert/A3152-25-0006> [44] <https://beta.jobs.nhs.uk/candidate/jobadvert/A0829-25-0001> [45] <https://beta.jobs.nhs.uk/candidate/jobadvert/A2662-25-0006> [46] <https://beta.jobs.nhs.uk/candidate/jobadvert/A3240-25-0004> [47] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9184-25-1000> [48] <https://beta.jobs.nhs.uk/candidate/jobadvert/A0604-25-0014> [49] <https://beta.jobs.nhs.uk/candidate/jobadvert/H9050-25-1883> [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>