

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**

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- **Medical Engineering Technician**

Wigan, WN1 2NN

Salary:

£26530.00 to £29114.00

Type:

Permanent

Employer:

Wrightington Wigan & Leigh Teaching Hospitals NHS Foundation Trust

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

- **Specialist Medical Engineer**

Walsall, WS2 9PS

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

Walsall Healthcare NHS Trust

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

- **Principal Linac Engineer - Medical Physics**

Cardiff, CF14 1TL

Salary:

£46840.00 to £53602.00

Type:

Permanent

Employer:

Velindre Cancer Centre

[Apply now on NHS Jobs for Principal Linac Engineer - Medical Physics job \(opens in a new window\)](#) ^[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]

- **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 \(opens in a new window\)](#) ^[10]

- **Deputy Head of Clinical Engineering**

Cottingham, HU16 5JQ

Salary:

£53755.00 to £60504.00

Type:

Permanent

Employer:

Hull University Teaching Hospitals NHS Trust

[Apply now on NHS Jobs for Deputy Head of Clinical Engineering job \(opens in a new window\)](#) ^[11]

- **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 \(opens in a new window\)](#) ^[12]

- **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 \(opens in a new window\)](#) ^[13]

- **Test Engineer**

Newcastle upon Tyne, NE2 4NQ

Salary:

£46148.00 to £52809.00

Type:

Fixed-Term

Employer:

Health Research Authority

[Apply now on NHS Jobs for Test Engineer job \(opens in a new window\)](#) ^[14]

- **Test Engineer**

Bristol, BS1 6PN

Salary:

£46148.00 to £52809.00

Type:

Fixed-Term

Employer:

Health Research Authority

[Apply now on NHS Jobs for Test Engineer job \(opens in a new window\)](#) ^[15]

- **Maintenance Engineer**

London, EC1A 7BE

Salary:

£35964.00 to £43780.00

Type:

Permanent

Employer:

Barts Health NHS Trust

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

^[16]

- **Rehabilitation Engineer**

Amersham, HP7 0JD

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

Buckinghamshire Healthcare NHS Trust

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

[17]

- **Multiskilled Engineering Apprentice**

Cramlington, Ashington, Hexham or North Shields, NE23 6NZ

Salary:

£24169.00

Type:

Apprenticeship

Employer:

Northumbria Healthcare NHS Foundation Trust

[Apply now on NHS Jobs for Multiskilled Engineering Apprentice 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]

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

- **Senior Network Engineer**

Stoke on Trent, ST4 6QG

Salary:

£46148.00 to £52809.00

Type:

Fixed-Term

Employer:

University Hospital of North Midlands NHS Trust

[Apply now on NHS Jobs for Senior Network Engineer job \(opens in a new window\)](#) ^[22]

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

- **Principal Radiation Engineer Radiotherapy**

Worcester, United Kingdom, WR51DD

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

Worcestershire Acute Hospitals NHS Trust

[Apply now on NHS Jobs for Principal Radiation Engineer Radiotherapy job \(opens in a new window\)](#) ^[24]

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

- **Junior Software/Infrastructure Engineer**

Preston, PR2 9HT

Salary:

£29970.00 to £36483.00

Type:

Fixed-Term

Employer:

East Lancashire Hospitals NHS Trust

[Apply now on NHS Jobs for Junior Software/Infrastructure Engineer job \(opens in a new window\)](#) ^[26]

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

- **Band 6 Rehabilitation Engineer**

Selly Oak, B29 6JA

Salary:

£37338.00 to £44962.00

Type:

Fixed-Term

Employer:

Birmingham Community Healthcare NHS FT

[Apply now on NHS Jobs for Band 6 Rehabilitation Engineer job \(opens in a new window\)](#) ^[28]

- **Electro-Biomedical Engineer (EBME)**

London, SW17 0QT

Salary:

£44806.00 to £53134.00

Type:

Permanent

Employer:

St George's University Hospitals NHS Foundation Trust

[Apply now on NHS Jobs for Electro-Biomedical Engineer \(EBME\) job \(opens in a new window\)](#) ^[29]

- **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 \(opens in a new window\)](#) ^[30]

- **End User Engineer (Computing)**

Woodbeck, Retford, DN22 0PD

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

Nottinghamshire Healthcare NHS Foundation Trust

[Apply now on NHS Jobs for End User Engineer \(Computing\) job \(opens in a new window\)](#) ^[31]

- **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 \(opens in a new window\)](#) ^[32]

- **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 \(opens in a new window\)](#) ^[33]

- **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 \(opens in a new window\)](#) ^[34]

- **2nd Line Advanced Engineer - Digital**

Steveage, SG1 4AB

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

East and North Hertfordshire Teaching NHS Trust

[Apply now on NHS Jobs for 2nd Line Advanced Engineer - Digital job \(opens in a new window\)](#) ^[35]

- **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 \(opens in a new window\)](#) ^[36]

- **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 \(opens in a new window\)](#) ^[37]

- **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 \(opens in a new window\)](#) ^[38]

- **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 \(opens in a new window\)](#) ^[39]

- **Multi Skill Engineer (Electrical / Mechanical) Apprentice**

Stockton on Tees, TS198PE

Salary:

£13429.00

Type:

Apprenticeship

Employer:

North Tees & Hartlepool Solutions

[Apply now on NHS Jobs for Multi Skill Engineer \(Electrical / Mechanical\)](#)

[Apprentice job \(opens in a new window\)](#) ^[40]

- **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 \(opens in a new window\)](#) ^[41]

- **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 \(opens in a new window\)](#) ^[42]

- **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 \(opens in a new window\)](#) ^[43]

- **Clinical Matron Medical Specialties - Band 8a (Internal Only)**

Victoria Road, Macclesfield, SK10 3BL

Salary:

£53755.00 to £60504.00

Type:

Secondment

Employer:

East Cheshire NHS Trust

[Apply now on NHS Jobs for Clinical Matron Medical Specialties - Band 8a \(Internal Only\) job \(opens in a new window\)](#) ^[44]

- **Medical Secretary/Higher Medical Secretary**

Middlesbrough, TS4 3BW

Salary:

£24625.00 to £29114.00

Type:

Fixed-Term

Employer:

South Tees Hospitals NHS Foundation Trust

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

- **Further information**

- [Academy for Healthcare Science](#) ^[46]
- [Health and Care Professions Council](#) ^[47]
- [Institution of Physics and Engineering in Medicine](#) ^[48]
- [National School of Healthcare Science](#) ^[49]
- [UCAS](#) ^[50]

Other roles that may interest you

- [Clinical or medical technology in medical physics](#) ^[51]
- [Medical device risk management and governance](#) ^[52]
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[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> [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/C9302-25-0330> [7] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9407-25-0191> [8] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9120-25-0077> [9] <https://beta.jobs.nhs.uk/candidate/jobadvert/B0474-25-0081> [10] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9389-25-0481> [11] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9356-25-0498> [12] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9153-25-0631> [13] <https://beta.jobs.nhs.uk/candidate/jobadvert/G9914-25-0115> [14] <https://beta.jobs.nhs.uk/candidate/jobadvert/M9980-25-0075> [15] <https://beta.jobs.nhs.uk/candidate/jobadvert/M9980-25-0076> [16] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9259-25-1166> [17] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9434-25-0592> [18] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9319-25-0530> [19] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9216-25-0670> [20] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9216-25-0719> [21] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9216-25-0672> [22] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9205-25-0763> [23] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9180-25-0373> [24] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9365-25-0332> [25] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9279-25-0980> [26] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9435-25-0214> [27] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9279-25-0991> [28] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9820-25-0456> [29] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9200-25-0664> [30] <https://beta.jobs.nhs.uk/candidate/jobadvert/H9050-25-1616> [31] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9186-25-0639> [32] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9213-25-0607> [33] <https://beta.jobs.nhs.uk/candidate/jobadvert/H9110-25-0803> [34] <https://beta.jobs.nhs.uk/candidate/jobadvert/M9195-25-0023> [35] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9361-25-0376> [36] <https://beta.jobs.nhs.uk/candidate/jobadvert/M9195-25-0025> [37] <https://beta.jobs.nhs.uk/candidate/jobadvert/M9195-25-0024> [38] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9279-25-0998> [39] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9217-029-25-26> [40] <https://beta.jobs.nhs.uk/candidate/jobadvert/M9345-25-0028> [41] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9301-25-0675> [42] <https://beta.jobs.nhs.uk/candidate/jobadvert/U0061-25-0065> [43] <https://beta.jobs.nhs.uk/candidate/jobadvert/U0061-25-0066> [44] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9209-25-0256> [45] <https://beta.jobs.nhs.uk/candidate/jobadvert/C9328-25-0586> [46] <http://www.ahcs.ac.uk> [47] <http://www.hcpc-uk.org/> [48] <http://www.ipem.ac.uk/> [49] <http://www.nshcs.hee.nhs.uk/> [50] <http://www.ucas.com> [51] <https://www.healthcareers.nhs.uk/explore-roles/healthcare-science/roles-healthcare-science/physical-sciences-and-biomedical-engineering/clinical-or-medical-technology-medical-physics> [52] <https://www.healthcareers.nhs.uk/explore-roles/healthcare-science/roles-healthcare-science/physical-sciences-and-biomedical-engineering/medical-device-risk-management-and-governance> [53] <https://www.healthcareers.nhs.uk/explore-roles/health-informatics/roles-health-informatics/knowledge-and-library-services> [54] <https://www.healthcareers.nhs.uk/Explore-roles/wider-healthcare-team/roles->

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