

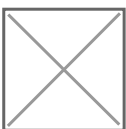
Engineer

Engineers in the NHS maintain and repair a range of equipment and facilities from ambulances to dialysis machines to air conditioning units. All are vital to a high-quality NHS.

Working life

As an engineer, you could work in different departments using your engineering skills in different ways. You could for example be a:

- [biomedical engineer](#) ^[1], maintaining and managing medical equipment in operating theatres, [intensive care](#) ^[2], [neonatal](#) ^[3] units, accident & emergency or radiology
- plant maintenance engineer making sure that water supplies and drainage, electrical systems, boilers and alarms are working well within NHS buildings
- heating, ventilation and air conditioning (HVAC) engineer, making sure all hospital areas are safe to use and kept at the right temperature, for example to keep patients warm, or vital supplies cool
- prosthetic engineer, creating and maintaining artificial limbs (prosthetics)
- building services engineer, overseeing the installation and maintenance of systems within buildings, including lighting, lifts, communications and security



Chris Barnett

Engineering craftsperson

Engineers will always be needed in the NHS and an engineering apprenticeship is one of the best ways in.

[Read Chris's story](#) ^[4]

Engineers usually specialise in a branch of engineering such as electrical, mechanical, building services or biomedical, for example.

In some cases engineers work in hospital departments, repairing and maintaining equipment where it has been installed. In other cases, such as in clinical engineering [5] and rehabilitation engineering [6] they work in a workshop where smaller equipment (such as wheelchairs or prosthetics) can be brought for repair.

Other, more senior engineers are responsible for planning and designing [7] rather than hands-on repair work.

Apprenticeships logo

Entry requirements

To train as an engineer in the NHS, you need at least 3 GCSEs including English maths and science. Employers may ask for an engineering qualification and some engineering experience. This could be from an engineering apprenticeship [8], for example.

Engineers can also join the NHS with an accredited engineering qualification, usually a degree or HND in a particular branch of engineering (electrical, mechanical or building services, for example). Employers usually ask for a qualification accredited by the Engineering Council [9]. You can search for courses on their website.

To get onto an engineering degree or HND course you usually need

- two or three A levels, including maths, along with five GCSEs (grades A-C [10]), including English language, maths and at least one science

or alternative qualifications, including

- BTEC or HNC which includes maths and/or engineering
- relevant NVQ
- science-based access course
- equivalent Scottish or Irish qualifications

However, each institution sets its own entry requirements, so it's important to check carefully.

Personal characteristics and skills

Engineers need to be

- interested in knowing how things work
- interested in continuing to learn
- willing to work at heights or in confined spaces
- physically fit for lifting, standing, etc
- able to work responsibly without supervision
- very health and safety conscious
- willing to work in all areas of a hospital or health centre

You'll also need

- problem-solving skills
- good manual (hand) skills
- organisational skills

Training and development

Engineers joining the NHS will be given the training they need to start the job. This will cover procedures and systems, including IT systems, as well as health and safety.

Qualified engineers can become members of the professional institution for their branch of engineering (see 'Contact information', below)

With experience and further qualifications, engineers can apply for incorporated or chartered status. Incorporated and chartered engineers have to keep their skills and knowledge up to date with annual CPD (continuing professional development). Each professional institution runs courses, conferences and seminars where engineers can update their skills and network with others.

• Pay and conditions

Engineers in the NHS are usually paid on the Agenda for Change (AfC) ^[11] pay system. Your precise pay depends on the level of your role, education, experience and level of responsibility. If you work in estates support, you could start on AfC ^[12] band 2. In estates maintenance, you could be on band 3 or 4. With further training and experience, you could apply for more senior positions at bands 5 and above.

Engineers in the NHS work standard hours of around 37.5 a week. They are likely to work shifts including nights and weekends. They may be part of an on-call rota for emergency cover.

Terms and conditions will be different for engineers working outside of the NHS.

• Where the role can lead

With experience, engineers can apply to become team leaders supervising the work of a team of staff. They can progress to become managers, responsible for a department or area of operations, such as estates and facilities ^[13].

Qualified engineers can work outside the NHS. There may be opportunities to work overseas.

- **Job market and vacancies**

If you're applying for a role either directly in the NHS or in an organisation that provides NHS services, you'll be asked to show how you think the NHS values apply in your everyday work. [Find out more about NHS values](#) ^[14].

Most NHS trusts advertise their vacancies on [NHS Jobs](#) ^[15]. Some of the current vacancies are below.

Find a vacancy

Enter your location or postcode

Show results within

Search

- **Advanced Engineer - Mechanical**

kendal, LA9 7RG

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

East Lancashire Hospitals NHS Trust

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

- **Maintenance Engineer (Mechanical Bias)**

Cardiff, CF14 4XW

Salary:

£30420.00 to £37030.00

Type:

Permanent

Employer:

Cardiff and Vale University Health Board

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

- **Mechanical Engineering Technician**

Rhyl, LL18 5UJ

Salary:

£30420.00 to £37030.00

Type:

Permanent

Employer:

Betsi Cadwaladr University Health Board

[Apply now on NHS Jobs for Mechanical Engineering Technician job \(opens in a new window\)](#) ^[18]

- **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 \(opens in a new window\)](#) ^[19]

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

- **Electrical Bias - Electrical/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 Bias - Electrical/Engineering Craftsperson job \(opens in a new window\)](#) ^[22]

- **Band 5 Mechanical Engineer**

Loughborough, LE11 5JY

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

Leicestershire Partnership NHS Trust

[Apply now on NHS Jobs for Band 5 Mechanical Engineer job \(opens in a new window\)](#) ^[23]

- **Electronics /Electrical Service Engineer**

Manchester, M20 4BX

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

The Christie NHS FT

[Apply now on NHS Jobs for Electronics /Electrical Service Engineer 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]

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

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

- **Plumbing & Heating Engineer (Mechanical Craftsperson)+ RRP £3,276.96**

Ipswich, IP3 8XL

Salary:

£26530.00 to £29114.00

Type:

Permanent

Employer:

Norfolk & Suffolk Foundation NHS Trust

[Apply now on NHS Jobs for Plumbing & Heating Engineer \(Mechanical Craftsperson\)+ RRP £3,276.96 job \(opens in a new window\)](#) ^[28]

- **Engineer**

Chelmsford, CM1 7GU

Salary:

Negotiable
Type:
Permanent
Employer:
Ramsay Health Care UK Operations Limited
[Apply now on NHS Jobs for Engineer job \(opens in a new window\)](#) ^[29]

- **Data Engineer**

London, E14 4PU

Salary:
£53755.00 to £60504.00

Type:
Fixed-Term

Employer:
NHS Counter Fraud Authority

[Apply now on NHS Jobs for Data Engineer job \(opens in a new window\)](#) ^[30]

- **Data Engineer**

Newcastle Upon Tyne, NE1 4WH

Salary:
£53755.00 to £60504.00

Type:
Fixed-Term

Employer:
NHS Counter Fraud Authority

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

- **Data Engineer**

Coventry, CV1 2WT

Salary:
£53755.00 to £60504.00

Type:
Fixed-Term

Employer:
NHS Counter Fraud Authority

[Apply now on NHS Jobs for Data Engineer job \(opens in a new window\)](#) ^[32]

- **Rehabilitation Engineer**

Blacklands Way, OX14 1RG

Salary:
£37035.00 to £41511.00

Type:

Permanent

Employer:

Ace Centre

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

[33]

- **Clinical Engineer**

Worthing, BN11 2DH

Salary:

£26530.00 to £29114.00

Type:

Permanent

Employer:

University Hospitals Sussex NHS Foundation Trust (279)

[Apply now on NHS Jobs for Clinical Engineer job \(opens in a new window\)](#) [34]

- **Clinical Engineer**

Stevenage, SG1 4AB

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

East and North Hertfordshire Teaching NHS Trust

[Apply now on NHS Jobs for Clinical Engineer job \(opens in a new window\)](#) [35]

- **Software & DevOps Engineer**

Stockport, SK7 5BW

Salary:

£42.00

Type:

Permanent

Employer:

Mastercall Healthcare

[Apply now on NHS Jobs for Software & DevOps Engineer job \(opens in a new window\)](#) [36]

- **Data Engineering Manager**

London, SW17 0QT

Salary:

£61927.00 to £68676.00

Type:

Permanent

Employer:

St George's University Hospitals NHS Foundation Trust

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

- **Principal Biomedical Engineer**

City of London, W1G 6BW

Salary:

Negotiable

Type:

Permanent

Employer:

The London Clinic

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

- **ICT Support Engineer**

Cambridge Bio Medical Campus, CB2 0AY
Huntingdon, PE29 6FH

Salary:

£29970.00 to £36483.00

Type:

Fixed-Term

Employer:

Royal Papworth Hospital NHS Foundation Trust

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

- **Senior Data Engineer**

Bolton, BL1 5DD

Salary:

£46148.00 to £52809.00

Type:

Secondment

Employer:

North West Ambulance Service NHS Trust

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

- **Medical Engineering Apprentice**

Carlisle / Whitehaven, CA2 7HY

Salary:

£26530.00 to £29114.00

Type:

Fixed-Term

Employer:

North Cumbria Integrated Care NHS Foundation Trust

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

- **Principal Integration Engineer**

High Wycombe, HP9 2JH

Salary:

£65000.00 to £75000.00

Type:

Permanent

Employer:

InHealth Group

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

- **IT Service Desk Engineer**

Runcorn, WA7 4QX

Salary:

£23875.00 to £23875.00

Type:

Permanent

Employer:

HCRG Care Group

[Apply now on NHS Jobs for IT Service Desk Engineer job \(opens in a new window\)](#) ^[43]

- **Lead NLP & Data Engineer**

London, SE1 7AR

Salary:

£70387.00 to £80465.00

Type:

Fixed-Term

Employer:

Guy's and St Thomas' NHS Foundation Trust

[Apply now on NHS Jobs for Lead NLP & Data Engineer job \(opens in a new window\)](#) ^[44]

- **Engineering Technician (Multi-skilled)**

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 \(Multi-skilled\) job \(opens in a new window\)](#) ^[45]

- **Wheelchair Service Mobile Engineer**

Exeter, EX28RU

Salary:

£24625.00 to £25674.00

Type:

Permanent

Employer:

Royal Devon University Healthcare NHS Foundation Trust

[Apply now on NHS Jobs for Wheelchair Service Mobile Engineer job \(opens in a new window\)](#) ^[46]

- **Aseptic Programme Validation Engineer**

London, SE1 7EH

Salary:

£54320.00 to £60981.00

Type:

Permanent

Employer:

Guy's and St Thomas' NHS Foundation Trust

[Apply now on NHS Jobs for Aseptic Programme Validation Engineer job \(opens in a new window\)](#) ^[47]

- **Multiskilled Maintenance Engineer - (Plumber)**

Liverpool, L12 2AP

Salary:

£29970.00 to £36483.00

Type:

Fixed-Term

Employer:

Alder Hey Children's NHS Foundation Trust

[Apply now on NHS Jobs for Multiskilled Maintenance Engineer - \(Plumber\) job \(opens in a new window\)](#) ^[48]

- **Engineering Technician (Building 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 \(Building Bias\) job \(opens in a new window\)](#) ^[49]

- **Engineering Technician (Multi-skilled)**

Chichester, PO196SE

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 \(opens in a new window\)](#) ^[50]

- **Senior Multi-skilled Engineer**

Bristol, BS10 5NB

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

North Bristol NHS Trust

[Apply now on NHS Jobs for Senior Multi-skilled Engineer job \(opens in a new window\)](#) ^[51]

- **IT Support Engineer 1st Line**

Fulwood, Preston, PR2 9WT

Salary:

£25000.00

Type:

Permanent

Employer:

CHEC

[Apply now on NHS Jobs for IT Support Engineer 1st Line job \(opens in a new window\)](#) ^[52]

- **Clinical Technologist in Rehabilitation Engineering**

317 01 Freeman Hospital, NE7 7DN

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

The Newcastle upon Tyne Hospitals NHS Foundation Trust

[Apply now on NHS Jobs for Clinical Technologist in Rehabilitation Engineering job \(opens in a new window\)](#) ^[53]

- **Science Assistant Technician (Radiotherapy Engineering)**

Cottingham, HU16 5JQ

Salary:

£24625.00 to £25674.00

Type:

Permanent

Employer:

Hull University Teaching Hospitals NHS Trust

[Apply now on NHS Jobs for Science Assistant Technician \(Radiotherapy Engineering\) job \(opens in a new window\)](#) ^[54]

- **IT Support Engineer 1st Line**

Fulwood, Preston, PR2 9WT

Salary:

Negotiable

Type:

Permanent

Employer:

CHEC

[Apply now on NHS Jobs for IT Support Engineer 1st Line job \(opens in a new window\)](#) ^[55]

- **Lead Specialist Engineer - HPC & Cloud**

Birmingham, Leeds, Liverpool, London, E14 4PU

Salary:

£54416.00 to £68344.00

Type:

Permanent

Employer:

UK Health Security Agency

[Apply now on NHS Jobs for Lead Specialist Engineer - HPC & Cloud job \(opens in a new window\)](#) ^[56]

- **Interim Cogito/Caboodle Data Engineer**

Colchester / Ipswich, CO4 5JL

Salary:

£53755.00 to £60504.00

Type:

Fixed-Term

Employer:

East Suffolk and North Essex NHS Foundation Trust

[Apply now on NHS Jobs for Interim Cogito/Caboodle Data Engineer job \(opens in a new window\)](#) ^[57]

- **Advanced Engineer - Fitter/Steam Boiler**

Lancaster, LA1 4RP

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

East Lancashire Hospitals NHS Trust

[Apply now on NHS Jobs for Advanced Engineer - Fitter/Steam Boiler job \(opens in a new window\)](#) ^[58]

- **Mechanical Fitter**

London, SE13 6LH

Salary:

£26530.00 to £29114.00

Type:

Permanent

Employer:

Lewisham and Greenwich NHS Trust

[Apply now on NHS Jobs for Mechanical Fitter job \(opens in a new window\)](#) ^[59]

- **Electrical Technician**

Sheffield, S5 7AU

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

Sheffield Teaching Hospitals NHS Foundation Trust
[Apply now on NHS Jobs for Electrical Technician job \(opens in a new window\)](#) ^[60]

- **Mechanical Supervisor**

Burton on Trent, DE13 0RB

Salary:

£34465.50 to £41995.45

Type:

Permanent

Employer:

University Hospitals of Derby and Burton NHS Foundation Trust

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

^[61]

- **Mechanical Craftsperson**

Warwick, CV34 5BW

Salary:

£30722.00

Type:

Permanent

Employer:

SWFT Clinical Services Ltd

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

^[62]

- **Maintenance Craftsperson (Electrical)**

Luton, LU4 0DZ

Salary:

£26530.00 to £29114.00

Type:

Permanent

Employer:

Bedfordshire Hospitals NHS Foundation Trust

[Apply now on NHS Jobs for Maintenance Craftsperson \(Electrical\) job \(opens in a new window\)](#) ^[63]

- **Maintenance Technician (Mechanical)**

Luton, LU4 0DZ

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

Bedfordshire Hospitals NHS Foundation Trust

[Apply now on NHS Jobs for Maintenance Technician \(Mechanical\) job \(opens in a new window\)](#) ^[64]

- **Maintenance Craftsperson ? Mechanical**

Luton, LU4 0DZ

Salary:

£26530.00 to £29114.00

Type:

Permanent

Employer:

Bedfordshire Hospitals NHS Foundation Trust

[Apply now on NHS Jobs for Maintenance Craftsperson ? Mechanical job \(opens in a new window\)](#) ^[65]

- **Maintenance Technician (Electrical)**

Luton, LU4 0DZ

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

Bedfordshire Hospitals NHS Foundation Trust

[Apply now on NHS Jobs for Maintenance Technician \(Electrical\) job \(opens in a new window\)](#) ^[66]

- **Maintenance Technician - Electrical**

Gobowen, SY10 7AG

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

Robert Jones and Agnes Hunt Orthopaedic Hospital NHS Foundation Trust

[Apply now on NHS Jobs for Maintenance Technician - Electrical job \(opens in a new window\)](#) ^[67]

- **Maintenance Craftsman (Mechanical)**

Bournemouth, BH7 7DW

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

University Hospitals Dorset NHS Foundation Trust

[Apply now on NHS Jobs for Maintenance Craftsman \(Mechanical\) job \(opens in a new window\)](#) ^[68]

- **Senior Estates Officer (Electrical)**

Liverpool, L7 8XP

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

Liverpool University Hospitals NHS Foundation Trust

[Apply now on NHS Jobs for Senior Estates Officer \(Electrical\) job \(opens in a new window\)](#) ^[69]

- **Specialist Craftsperson Electrical - Shifts**

317 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 Specialist Craftsperson Electrical - Shifts job \(opens in a new window\)](#) ^[70]

- **Estates Team Leader (Mechanical)**

Luton, LU4 0DZ

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

Bedfordshire Hospitals NHS Foundation Trust

[Apply now on NHS Jobs for Estates Team Leader \(Mechanical\) job \(opens in a new window\)](#) ^[71]

- **Senior Team Leader (Mechanical)**

Bury St Edmunds, IP33 2QZ

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

West Suffolk NHS Foundation Trust

[Apply now on NHS Jobs for Senior Team Leader \(Mechanical\) job \(opens in a new window\)](#) ^[72]

- **Estates Maintenance Craftsperson Electrical**

Carlisle, CA1 3SX

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

North Cumbria Integrated Care NHS Foundation Trust

[Apply now on NHS Jobs for Estates Maintenance Craftsperson Electrical job \(opens in a new window\)](#) ^[73]

- **Multi-Skilled Craftsperson (Mechanical Bias)**

Burton on Trent, DE13 0RB

Salary:

£30509.50 to £33481.10

Type:

Permanent

Employer:

University Hospitals of Derby and Burton NHS Foundation Trust

[Apply now on NHS Jobs for Multi-Skilled Craftsperson \(Mechanical Bias\) job \(opens in a new window\)](#) ^[74]

- **Electrical Craftsperson - Royal Gwent Hospital**

Newport, NP20 2UB

Salary:

£30420.00 to £37030.00

Type:

Permanent

Employer:

Aneurin Bevan University Health Board

[Apply now on NHS Jobs for Electrical Craftsperson - Royal Gwent Hospital job \(opens in a new window\)](#) ^[75]

• Further information

- [Engineering UK](#) [76]
- [Institute of Healthcare Engineering and Estate Management](#) [77]
- [Chartered Institution of Building Services Engineers](#) [78]
- [Chartered Institute of Plumbing and Heating Engineering](#) [79]
- [Institution of Mechanical Engineers](#) [80]
- [Institution of Engineering and Technology](#) [81]

Other roles that may interest you

- [Estates manager](#) [82]
- [Estates technician](#) [83]
- [Emergency care assistant](#) [84]
- [Clinical informatics](#) [85]

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