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Clinical genetics

Clinical geneticists diagnose and look after families with genetic disorders.

Can't see the video? You'll need to accept all <u>cookies</u> [1]. Alternatively, visit our YouTube Channel to view our <u>videos</u> [2]

Life as a clinical geneticist

You'll manage conditions such as:

- chromosomal abnormalities, which cause birth defects, intellectual disability and/or reproductive problems
- single gene disorders such as cystic fibrosis, muscular dystrophy, Huntington's disease and sickle cell disease
- familial cancer and cancer-prone syndromes such as inherited breast or colorectal [3] cancer and neurofibromatosis
- birth defects with a genetic component such as neural tube defects and cleft lip and palate
- inherited cardiac conditions associated with sudden death
- learning difficulties associated with other problems or a family history

Technology is revolutionising clinical genetics [4] and therefore your ability to diagnose and treat genetic disorders. So there are unprecedented opportunities for you to understand diseases and progress treatments in this fascinating career.

You will not prescribe medicines or perform surgery. Your focus will be to accurately diagnose and manage a person's genetic disorder, and the impact of it on their loved ones.

As a clinical geneticist, you'll regularly undertake:

- clinical history taking
- physical examination
- genetic testing
- genetic counselling
- performing skin biopsies
- taking clinical photographs
- using computerised databases

You will need to form close working relationships with both patients and colleagues.

You'll spend a lot of time researching disorders, taking family histories and performing detailed examinations of patients. You'll be continually working to discover if a patient has a genetic condition and if so, what it is and how it may affect their relatives. Your ability to integrate both clinical and molecular information will be in use every day.

You'll also work to help colleagues understand a patient's condition and treatment as part of a multidisciplinary team. Communication and your ability to explain complex conditions will be paramount.

On any given day, you'll give advice on:

- appropriate management of rare disorders
- genetic testing
- reproductive options, for example the availability of prenatal testing for a specific disorder
- risk assessment of individuals and genetic counselling of family members

How much can I earn?

You'll first earn a salary when you start your <u>foundation training</u> [5] after medical school. Find out details of current salary ranges for foundation and specialty training, <u>SAS doctors</u> [6] and consultants on the <u>'Pay for doctors'</u> [7] page.

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

Must-have skills

- excellent communication skills to manage a wide range of relationships with colleagues, and 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

Your first step is medical school. Typically, you'll need excellent GCSEs and three A or A* passes at A level including chemistry for a five-year undergraduate degree in medicine. Many

medical schools also ask for biology and others may require maths or physics.

If you already have a degree, you could study for a four-year postgraduate degree in medicine. You'll need to pass an interview and admissions test. You'll be asked to show how you demonstrate the NHS values such as compassion and respect.

Some medical schools look to recruit a mix of students from different backgrounds and geographical areas, so your educational and economic background and family circumstances could be considered as part of your application.

What are my chances of starting a career as a clinical geneticist?

There are currently 147 clinical geneticists working in the NHS in England. In 2020, there were 40 applications for 13 specialty training places.

How to become a clinical geneticist

After medical school, you'll join the paid two-year <u>foundation programme</u> [8] where you'll work in six placements in different settings.

After your foundation programme, you can apply for paid <u>specialty training</u> [9] to become a clinical geneticist, which will take a minimum of six years.

You may be able to train part time, for example for health reasons or if you have family or caring responsibilities.

Where a career as a clinical geneticist can take you

There are no associated <u>CCT</u> [10] sub-specialties for clinical geneticists, but you could develop sub-specialty interests such as:

- cancer genetics
- cardiac genetics
- dysmorphology

Live vacancies

Find a vacancy

Enter your location or postcode

Show results within

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• Senior Genetic Technologist

Birmingham, B15 2TG

Salary:

£38682.00 to £46580.00

Type:

Permanent Employer:

Birmingham Women's and Children's NHS Foundation Trust Apply now on NHS Jobs for Senior Genetic Technologist job (opens in a new window) [11]

• Genetic Technologist (Band 5)

Bristol, BS10 5NB

Salary:

£31049.00 to £37796.00

Type:

Fixed-Term

Employer: North Bristol NHS Trust <u>Apply now on NHS Jobs for Genetic Technologist (Band 5) job (opens in a new</u> window) [12]

• Genetic Technologist (Band 5)

Bristol, BS10 5NB Salary: £31049.00 to £37796.00 Type: Permanent Employer: North Bristol NHS Trust Apply now on NHS Jobs for Genetic Technologist (Band 5) job (opens in a new window) [13]

• Genetic Technologist (Band 5)

Bristol, BS10 5NB

Salary: £31049.00 to £37796.00 Type: Fixed-Term Employer: North Bristol NHS Trust Apply now on NHS Jobs for Genetic Technologist (Band 5) job (opens in a new window) [14]

• Clinical Practitioner - Clinical Assessment Service

Leicester, LE3 8RN

Salary: £53770.00 to £60721.00 Type: Permanent Employer: DHU Healthcare <u>Apply now on NHS Jobs for Clinical Practitioner - Clinical Assessment Service job</u> (opens in a new window) [15]

• Principal Clinical psychologist/Clinical lead

Warrington, WA2 8WA Salary: £64455.00 to £74896.00 Type: Permanent Employer: Mersey Care NHS Foundation Trust Apply now on NHS Jobs for Principal Clinical psychologist/Clinical lead job (opens in a new window) [16]

Specialist Clinical Pharmacist - Clinical Haematology

Crewe, CW1 4QJ Salary: £53755.00 to £60504.00 Type: Permanent Employer: The Christie NHS FT Apply now on NHS Jobs for Specialist Clinical Pharmacist - Clinical Haematology job (opens in a new window) [17]

Lead Clinical Coder / Senior Clinical Coder

Luton, LU4 0DZ

Salary:

£31049.00 to £37796.00 Type: Fixed-Term Employer: Bedfordshire Hospitals NHS Foundation Trust Apply now on NHS Jobs for Lead Clinical Coder / Senior Clinical Coder job (opens in a new window) [18]

Clinical Fellow/Senior Clinical Fellow Acute Medicine

Wolverhampton, WV10 0QP

Salary:

£44439.00 to £65048.00

Type:

Fixed-Term

Employer:

The Royal Wolverhampton NHS Trust <u>Apply now on NHS Jobs for Clinical Fellow/Senior Clinical Fellow Acute Medicine</u> job (opens in a new window) ^[19]

Clinical Educator/Trainee Clinical Educator *Internal Only*

Carlisle, CA2 7HY Salary: £38682.00 to £54710.00 Type: Fixed-Term Employer: North Cumbria Integrated Care NHS Foundation Trust Apply now on NHS Jobs for Clinical Educator/Trainee Clinical Educator *Internal Only* job (opens in a new window) [20]

Community Clinical Nurse Specialist / Clinical Paramedic Specialist

St Albans, AL3 5QX

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

Rennie Grove Peace Hospice Care

Apply now on NHS Jobs for Community Clinical Nurse Specialist / Clinical Paramedic Specialist job (opens in a new window) [21]

Advanced Clinical Pharmacist / Clinical Pharmacist - Cancer Services

Swansea, SA2 8QA

Salary: £48527.00 to £63623.00 Type: Permanent Employer: Swansea Bay University Health Board <u>Apply now on NHS Jobs for Advanced Clinical Pharmacist / Clinical Pharmacist -</u> <u>Cancer Services job (opens in a new window)</u> [22]

Clinical Pharmacist

Ilminster, TA19 9FE Salary: Negotiable Type: Permanent Employer: CLICK PCN Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [23]

Clinical Pharmacist

Halesworth, IP19 8SG

Salary:

Negotiable

Type:

Permanent

Employer:

South Waveney Alliance Primary Care Network Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [24]

Clinical Psychologist

Stoke on Trent, ST2 0TN Salary: £55000.00 Type: Permanent Employer: Elysium Healthcare Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [25]

Crawley, RH10 7QH Crawley, Rh101HS Salary: Negotiable Type: Permanent Employer: Saxonbrook Medical Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [26]

• Clinical Pharmacist

London, E7 8AB Salary: Negotiable Type: Permanent Employer: Claremont Clinic Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [27]

• Clinical Pharmacist

City of London, W1G 6BW Salary: Negotiable Type: Permanent Employer: The London Clinic Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [28]

Clinical Pharmacist

| ₋ondon, E7 8AB |
|--|
| Salary: |
| Negotiable |
| Гуре: |
| Permanent |
| Employer: |
| Claremont Clinic |
| Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [27] |

• Clinical Psychologist

Stoke on Trent, ST2 0TN Salary: £55000.00 Type: Permanent Employer: Elysium Healthcare Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [25]

Clinical Pharmacist

Manchester, M23 9JH

Salary: £46148.00 to £52809.00 Type: Permanent Employer: Better Health MCR Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [29]

Clinical Educator

Birmingham, B29 6HZ Walsall, WS5 4NL Worcester, WR5 3EZ

Salary: £41500.00 to £45000.00 Type: Permanent Employer: Acorns Children's Hospice Trust Apply now on NHS Jobs for Clinical Educator job (opens in a new window) [30]

Clinical Pharmacist

Spennymoor, DL16 6ED Ferryhill, DL179LH Salary: Negotiable Type: Permanent Employer: South Durham Health CIC

• Clinical Coder

TELFORD, TF3 4LY Salary: £12.32 Type: Permanent Employer: Teldoc Apply now on NHS Jobs for Clinical Coder job (opens in a new window) [32]

Clinical Psychologist

Lowestoft, NR33 8AG

Salary:

£55690.00 to £62682.00

Type:

Fixed-Term Employer:

Norfolk & Suffolk Foundation NHS Trust Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [33]

• Clinical Educator

York, YO31 8HE

Salary:

£47810.00 to £54710.00

Type:

Fixed-Term

Employer:

York and Scarborough Teaching Hospitals NHS Foundation Trust Apply now on NHS Jobs for Clinical Educator job (opens in a new window) [34]

Clinical Psychologist

Horsham, RH12 1XH Salary: £46731.00 to £49764.00 Type: Permanent Employer: West Sussex County Council Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [35]

• Clinical Lead

Morpeth, NE61 2NU

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

Cumbria, Northumberland, Tyne and wear (CNTW) NHS Foundation Trust Apply now on NHS Jobs for Clinical Lead job (opens in a new window) [36]

Clinical Advisor

East of England, cb1 1pt

Salary: Negotiable Type: Permanent Employer: Baywater Healthcare Apply now on NHS Jobs for Clinical Advisor job (opens in a new window) [37]

Clinical Pharmacist

Bognor Regis, PO21 1UT

Salary: £24.45 to £28.48 Type: Permanent Employer: Bognor Medical Practice Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [38]

• Clinical Psychologist

Stoke on Trent, ST10 4QU Salary: £62400.00 Type: Permanent Employer: Elysium Healthcare Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [39]

Ryde, PO33 2EH Salary: £24.50 to £27.90 Type: Permanent Employer: The Esplanade Surgery Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [40]

Clinical Pharmacist

Bath, BA2 4BY

Salary: Negotiable Type: Fixed-Term Employer: The Pulteney Practice Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [41]

Clinical Trustee

Wimborne, BH21 1AS

Salary:

Negotiable

Type:

Permanent

Employer:

Julia's House Dorset/Wiltshire Children's Hospices Apply now on NHS Jobs for Clinical Trustee job (opens in a new window) [42]

Clinical Psychologist

Wisbech, PE14 0LP Salary: £47810.00 to £55710.00 Type: Permanent Employer: The Cambian Group Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [43]

Clinical Psychologist

Wisbech, PE14 0LP Salary: £47810.00 to £55710.00 Type: Permanent Employer: The Cambian Group Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [43]

Clinical Pharmacist

Knebworth, SG3 6ER

Salary: Negotiable Type: Permanent Employer: Knebworth & Marymead Medical Practice Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [44]

Clinical Psychologist

Leeds , LS12 2TJ

Salary: £65000.00 to £65000.00 Type: Permanent Employer: Practice Plus Group Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [45]

• Clinical Lead

Darlington, DL3 6AH Salary: £20.89 to £21.89 Type: Permanent Employer: HC-One Apply now on NHS Jobs for Clinical Lead job (opens in a new window) [46]

• Clinical Lead

Darlington, DL3 6AH Salary: £23.87 to £24.87 Type: Permanent Employer: HC-One Apply now on NHS Jobs for Clinical Lead job (opens in a new window) [47]

Clinical Pharmacist

Southampton, SO45 5WX Salary: Negotiable Type: Permanent Employer:

Employer: The Red & Green Practice <u>Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window)</u> [48]

Clinical Pharmacist

Redcar, TS10 4NW Salary: Negotiable Type: Permanent Employer: The Green House Surgery Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [49]

• Clinical Administrator

Buckley, CH7 3PG Mold, CH7 1PA Salary: £12.21 Type: Permanent Employer: Bradley's Practice Apply now on NHS Jobs for Clinical Administrator job (opens in a new window) [50]

Llantrisant, CF72 8XR

Salary:

£37898.00 to £45637.00 Type:

Fixed-Term Employer:

Cwm Taf Morgannwg University Health Board Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [51]

• Clinical Admin

Spennymoor, DL16 6JQ

Salary:

£24937.00 to £26598.00

Type:

Permanent

Employer:

County Durham & Darlington NHS Foundation Trust Apply now on NHS Jobs for Clinical Admin job (opens in a new window) [52]

• Clinical Pharmacist

Taunton, TA1 1NW

Salary:

Negotiable

Type:

Permanent

Employer:

Taunton Central Primary Care Network Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [53]

• Clinical Pharmacist

Chichester, PO19 6WB Salary: £45000.00 to £50000.00 Type: Permanent Employer: Nuffield Health Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [54]

Plymouth, PL5 2ST Salary: Negotiable Type: Permanent Employer: Fuller and Forbes Partnership Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [55]

Clinical Pharmacist

Nottinghamshire, NG21 0RB

Salary: Negotiable Type: Permanent Employer: Primary Integrated Community Services Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [56]

Clinical Pharmacist

Coventry, CV1 4JH

Salary:

£52342.00

Type:

Fixed-Term

Employer:

Coventry And Rugby GP Alliance Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [57]

• Clinical Lead

Bebington, Wirral, CH63 4JY

Salary:

£38682.00 to £46580.00

Type:

Fixed-Term

Employer:

Cheshire and Wirral Partnership NHS Foundation Trust Apply now on NHS Jobs for Clinical Lead job (opens in a new window) [58]

Yate, BS37 5DW Salary: £47810.00 to £54710.00 Type: Fixed-Term Employer: Sirona care & health CIC Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [59]

• Clinical Lead

Southall, UB2 4AU Salary: £47810.00 to £54710.00 Type: Permanent Employer: West London NHS Trust Apply now on NHS Jobs for Clinical Lead job (opens in a new window) [60]

Clinical Psychologist

London, EC2A 2AP Salary: £65000.00 Type: Permanent Employer: Xyla Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [61]

• Clinical Pharmacist

Manchester, M20 4BX Salary: £47810.00 to £54710.00 Type: Permanent Employer: The Christie NHS FT Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [62]

Further information

These organisations have further information about being a doctor in clinical genetics [4], particularly as your career progresses. Take a look.

Royal College of Physicians [63]

Royal College of Physicians of Edinburgh [64]

Royal College of Physicians and Surgeons of Glasgow [65]

British Society for Genetic Medicine [66]

Clinical Genetics Society [67]

And see more about life as a clinical genetist:

Clinical geneticist: a guide to a career in the specialty (BMJ) [68]

Other roles that may interest you

- Palliative medicine [69]
- Paediatrician [70]
- Medical oncology [71]
- Cardiologist [72]

Source URL:<u>https://www.healthcareers.nhs.uk/explore-roles/doctors/roles-doctors/medicine/clinical-genetics</u>

Links

[1] https://www.healthcareers.nhs.uk/privacy-and-cookies/#CookieDeclarationChangeConsentChange[2] https://www.youtube.com/NHSCareers [3] https://www.healthcareers.nhs.uk/glossary#Colorectal [4] https://www.healthcareers.nhs.uk/glossary#Genetics [5] https://www.healthcareers.nhs.uk/glossary#Foundation_training [6] https://www.healthcareers.nhs.uk/explore-roles/doctors/career-opportunities-doctors/sas-doctors[7] https://www.healthcareers.nhs.uk/explore-roles/doctors/pay-doctors [8] https://foundationprogramme.nhs.uk/ [9] https://specialtytraining.hee.nhs.uk/ [10] https://www.healthcareers.nhs.uk/glossary#CCT [11] https://beta.jobs.nhs.uk/candidate/jobadvert/C9284-25-0436 [12] https://beta.jobs.nhs.uk/candidate/jobadvert/C9339-25-0571 [13] https://beta.jobs.nhs.uk/candidate/jobadvert/C9339-25-0570 [14] https://beta.jobs.nhs.uk/candidate/jobadvert/C9339-25-0573 [15] https://beta.jobs.nhs.uk/candidate/jobadvert/M0051-CP-CAS-LLR [16] https://beta.jobs.nhs.uk/candidate/jobadvert/C9350-25-0941 [17] https://beta.jobs.nhs.uk/candidate/jobadvert/C9413-25-0511 [18] https://beta.jobs.nhs.uk/candidate/jobadvert/C9418-25-0899 [19] https://beta.jobs.nhs.uk/candidate/jobadvert/C9225-25-0340 [20] https://beta.jobs.nhs.uk/candidate/jobadvert/C9262-25-0961 [21] https://beta.jobs.nhs.uk/candidate/jobadvert/B0525-NTX1126579 [22]

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