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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 videos [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 'Pay for doctors' [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 CCT [10] sub-specialties for clinical geneticists, but you could develop sub-specialty interests such as:

- cancer genetics
- cardiac genetics
- dysmorphology

Live vacancies

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Consultant in Clinical Genetics

Leeds, LS7 4SA

Salary:

£105504.00 to £139882.00

Type:

Permanent

Employer:

Leeds Teaching Hospitals

Apply now on NHS Jobs for Consultant in Clinical Genetics job (opens in a new window) [11]

Genetic Technologist

London, SE5 9RS

Salary:

Negotiable

Type:

Permanent

Employer:

Synnovis Analytics

Apply now on NHS Jobs for Genetic Technologist job (opens in a new window) [12]

Consultant Clinical Genetics interest in rare Ehlers-Danlos Syndromes

Harrow, HA1 3UJ

Salary:

£105504.00 to £139882.00

Type:

Permanent

Employer:

London North West University Healthcare NHS Trust

Apply now on NHS Jobs for Consultant Clinical Genetics interest in rare Ehlers-Danlos Syndromes job (opens in a new window) [13]

o Genetics in Communities Service Development Co-ordinator

Bradford, BD1 3LS

Salary:

£36067.00

Type:

Fixed-Term

Employer:

Bevan Community Benefit Society

Apply now on NHS Jobs for Genetics in Communities Service Development Coordinator job (opens in a new window) [14]

Clinical Educator (Clinical Apprenticeships)

Plymouth, PL6 8DH

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

University Hospitals Plymouth NHS Trust

Apply now on NHS Jobs for Clinical Educator (Clinical Apprenticeships) job (opens in a new window) [15]

Principal Clinical Psychologist & Clinical Lead

Abbeywood, SE2 0AY

Salary:

£67950.00 to £78028.00

Type:

Fixed-Term

Employer:

Oxleas NHS Foundation Trust

Apply now on NHS Jobs for Principal Clinical Psychologist & Clinical Lead job (opens in a new window) [16]

Clinical Practitioner - Clinical Assessment Service

Leicester, LE3 8RN

Salary:

£53770.00 to £60721.00

Type:

Permanent

Employer:

DHU Healthcare

Apply now on NHS Jobs for Clinical Practitioner - Clinical Assessment Service job (opens in a new window) [17]

Clinical Governance Lead/Clinical Educator

Rotherham, S60 2UD

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

The Rotherham NHS Foundation Trust

Apply now on NHS Jobs for Clinical Governance Lead/Clinical Educator job (opens in a new window) [18]

Advanced Clinical Practitioner (ACP) Clinical Lead

Wadhurst, TN5 6BJ Crowborough, TN6 2ED

Salary:

£34.87

Type:

Permanent

Employer:

Sussex Primary Care

Apply now on NHS Jobs for Advanced Clinical Practitioner (ACP) Clinical Lead job (opens in a new window) [19]

Clinical Fellow in Clinical Virology (ST3+)

London, NW1 2PG

Salary:

£61825.00

Type:

Fixed-Term

Employer:

University College London Hospitals NHS Foundation Trust Apply now on NHS Jobs for Clinical Fellow in Clinical Virology (ST3+) job (opens in a new window) [20]

Clinical Nurse Specialist or Clinical Specialist AHP

To be confirmed at interview, TN25 4AZ

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

Kent Community Health NHS Foundation Trust

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

Advanced Clinical Pharmacist - Clinical Learning and Development

Swansea, SA6 6NL

Salary:

£54550.00 to £61412.00

Type:

Permanent

Employer:

Swansea Bay University Health Board

Apply now on NHS Jobs for Advanced Clinical Pharmacist - Clinical Learning and Development job (opens in a new window) [22]

Advanced Clinical Practitioner - Clinical Assessment Services -Remote

Welwyn Garden City, AL7 4HL

Salary:

£31.28

Type:

Permanent

Employer:

HUC

Apply now on NHS Jobs for Advanced Clinical Practitioner - Clinical Assessment Services - Remote job (opens in a new window) [23]

Clinical Pharmacist

Preston, PR2 9TH

Preston, PR2 7DS

Salary:

Negotiable

Type:

Permanent

Employer:

North Preston Medical Practice

Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [24]

Clinical Pharmacist

Woking, GU22 8HF

Salary:

Negotiable

Type:

Permanent

Employer:
The Maybury Surgery
Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [25]

Clinical Optometrist

Canterbury, CT1 1BN

Salary:

Negotiable

Type:

Permanent

Employer:

CHEC

Apply now on NHS Jobs for Clinical Optometrist job (opens in a new window) [26]

Clinical Psychologist

Norwich, NR2 4JL

Salary:

£46148.00 to £60504.00

Type:

Fixed-Term

Employer:

Norfolk and Norwich University Hospital

Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [27]

Clinical Practitioner

Sunderland, SR29HP

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

South Tyneside and Sunderland NHS Foundation Trust

Apply now on NHS Jobs for Clinical Practitioner job (opens in a new window) [28]

Clinical Pharmacist

Salisbury, SP5 2SU

Salary:

Negotiable

Type:

Permanent

Employer:

Whiteparish Surgery

Dartford, DA4 9AB

Salary:

Negotiable

Type:

Permanent

Employer:

DEVON ROAD SURGERY

Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [30]

Clinical Psychologist

Norwich, NR6 5BE

Salary:

£53755.00 to £60504.00

Type:

Fixed-Term

Employer:

Norfolk & Suffolk Foundation NHS Trust

Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [31]

Clinical Lead

Newcastle Upon Tyne, NE2 1QE

Salary:

£46148.00 to £52809.00

Type:

Fixed-Term

Employer:

Cumbria, Northumberland, Tyne and wear (CNTW) NHS Foundation Trust Apply now on NHS Jobs for Clinical Lead job (opens in a new window) [32]

Clinical Administrator

317 01 Freeman Hospital, NE1 4LP

Salary:

£24625.00 to £25674.00

Type:

Permanent

Employer:

The Newcastle upon Tyne Hospitals NHS Foundation Trust

Apply now on NHS Jobs for Clinical Administrator job (opens in a new window) [33]

Clinical Lead

Hull, HU6 8QR

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

Humber Teaching NHS Foundation Trust

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

Clinical Lead

Mertsham, RH1 3QN

Salary:

£23.00

Type:

Permanent

Employer:

Aria Care

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

Clinical Pharmacist

Billericay, CM12 9DX

Salary:

Negotiable

Type:

Fixed-Term

Employer:

Western Road Surgery

Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [36]

Clinical Technologist

London, E11 1NR

Salary:

£34521.00 to £41956.00

Type:

Fixed-Term

Employer:

Barts Health NHS Trust

Apply now on NHS Jobs for Clinical Technologist job (opens in a new window) [37]

Manchester, M13 9WL

Salary:

£46148.00 to £52809.00

Type:

Fixed-Term

Employer:

Manchester University NHS Foundation Trust

Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [38]

Clinical Lead

Chester, CH2 1BQ

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

Cheshire and Wirral Partnership NHS Foundation Trust

Apply now on NHS Jobs for Clinical Lead job (opens in a new window) [39]

Clinical Psychologist

Coventry, CV6 6NY

Salary:

£53755.00 to £60504.00

Type:

Permanent

Employer:

Coventry and Warwickshire Partnership Trust

Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [40]

Clinical Lead

Mertsham, RH1 3QN

Salary:

£23.00

Type:

Permanent

Employer:

Aria Care

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

Clinical Pharmacist

Billericay, CM12 9DX

Salary:

Negotiable

Type:

Fixed-Term

Employer:

Western Road Surgery

Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [36]

Clinical Technologist

Reading, RG1 5AN

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

Royal Berkshire NHS Foundation Trust

Apply now on NHS Jobs for Clinical Technologist job (opens in a new window) [41]

Clinical Pharmacist

Wigan, WN4 9SU

Salary:

Negotiable

Type:

Permanent

Employer:

SSP Health

Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [42]

Clinical Pharmacist

Tooting, SW17 7DJ

Salary:

£44806.00 to £53134.00

Type:

Permanent

Employer:

South West London and St Georges Mental Health NHS Trust

Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [43]

London, WC1N6JH

Salary:

£61927.00 to £68676.00

Type:

Permanent

Employer:

Great Ormond Street Hospital for Children NHS Foundation Trust

Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [44]

Clinical Pharmacist

North Shields, NE29 0HT North Shields, NE30 4HD Wallsend, NE28 9UY

Salary:

Negotiable

Type:

Fixed-Term

Employer:

Priory Medical Group

Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [45]

Clinical Pharmacist

Peterborough, PE3 8DT Peterborough, PE12UF

Salary:

Negotiable

Type:

Permanent

Employer:

Bretton Park Healthcare

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

Clinical Pharmacist

To be Confirmed, SY16 2DW

Salary:

£46840.00 to £53602.00

Type:

Permanent

Employer:

Powys Teaching Health Board

Huddersfield, HD3 3HR

Exeter, EX1 3QS

Harrogate, HG1 2PW

Norwich, NR3 1YE

Newcastle, NE3 3PF

Salary:

Negotiable

Type:

Permanent

Employer:

Evolve Psychology Services

Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [48]

Clinical Pharmacist

Birmingham, B43 6EE

Salary:

£39000.00 to £46800.00

Type:

Permanent

Employer:

Scott Arms Medical Centre

Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [49]

Clinical Pharmacist

Banbury, OX169AD

Salary:

Negotiable

Type:

Permanent

Employer:

Principal Medical Limited

Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [50]

Clinical Psychologist

Kendal, LA9 6AA

Salary:

£70000.00

Type:

Permanent

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Employer:
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Elysium Healthcare

Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [51]

Clinical Endoscopist

Redruth, TR153ER

Salary:

£75000.00 to £80000.00

Type:

Permanent

Employer:

InHealth Group

Apply now on NHS Jobs for Clinical Endoscopist job (opens in a new window) [52]

Clinical pharmacist

Belvedere, DA17 5LQ

Salary:

Negotiable

Type:

Permanent

Employer:

Belvedere Medical Centre

Apply now on NHS Jobs for Clinical pharmacist job (opens in a new window) [53]

Clinical Lead

Nottingham, NG6 9DR

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

Nottinghamshire Healthcare NHS Foundation Trust

Apply now on NHS Jobs for Clinical Lead job (opens in a new window) [54]

Clinical Psychologist

Brighton, BN3 4FH

Salary:

£55000.00

Type:

Permanent

Employer:

Elysium Healthcare

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) [56]

Clinical Psychologist

Folkestone, KENT, CT20 1JY

Salary:

£46148.00 to £60504.00

Type:

Permanent

Employer:

Kent & Medway NHS & Social Care Partnership Trust

Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [57]

Clinical Admin

Peterlee, SR8 2RU

Salary:

£24625.00 to £25674.00

Type:

Permanent

Employer:

County Durham & Darlington NHS Foundation Trust

Apply now on NHS Jobs for Clinical Admin job (opens in a new window) [58]

Clinical Administrator

Sheffield, S11 9BF

Salary:

£24625.00 to £25674.00

Type:

Permanent

Employer:

Sheffield Health and Social Care NHS Foundation Trust

Apply now on NHS Jobs for Clinical Administrator job (opens in a new window) [59]

Bradford, BD7 1LG

Salary:

£53755.00 to £60504.00

Type:

Permanent

Employer:

Bradford District Care NHS Foundation Trust

Apply now on NHS Jobs for Clinical Psychologist job (opens in a new window) [60]

Clinical Pharmacist

Beswick, M11 3BB

Salary:

Negotiable

Type:

Fixed-Term

Employer:

Five Oaks Family Practice

Apply now on NHS Jobs for Clinical Pharmacist job (opens in a new window) [61]

Clinical Administrator

Plymouth, PL9 9XA

Salary:

£15280.00

Type:

Fixed-Term

Employer:

St Luke's Hospice Plymouth

Apply now on NHS Jobs for Clinical Administrator 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: https://www.healthcareers.nhs.uk/explore-roles/doctors/roles-doctors/medicine/clinical-genetics

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