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# Microbiology (healthcare scientist)

Microbiologists study organisms such as viruses that cause infections.

As a healthcare scientist working in microbiology, a large part of your work will be the identification and classification of these organisms.

## Life as a microbiologist

You'll be based in a laboratory where you'll have a key role in preventing, diagnosing and controlling infections such as COVID19, Ebola, norovirus, MRSA and other 'superbugs'. Your work will include one or more of:

- individual patients
- a hospital population
- and whole communities

You may work in diagnostic laboratories and pathology departments in hospitals. Many microbiologists work for the UK Health Security Agency.

You'll use a range of specialist tests and technologies including molecular techniques to identify and classify organisms to support the response to infection. Microbiologists help to develop and improve tests to diagnose infectious diseases and advise on treatment options.

You'll usually based in a laboratory but your work will affect most patients in the NHS at some point. Your work will also contribute to strategic decisions made by senior colleagues, for example to help control the spread of infections and the development of appropriate vaccines.

#### Gemma Clark

#### **Clinical scientist**

What's exciting for me is that I get to 'road test' new machines and new pieces of kit!

Read Gemma's story [1]

#### How much can I earn?

You'll be employed on a national pay and conditions system called <u>Agenda for Change (AfC [2]</u>).

Below are examples of the pay band you'll be on, depending on your role within microbiology:

- 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 to the lives of patients
- 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, 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

### How to become a microbiologist in clinical science

Starting your career in microbiology 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 microbiology such as assistant or level 2 apprenticeships, associate practitioner roles, level 4 apprenticeships.

If you're already a registered and experienced healthcare scientist, there are Master's degrees, the NHS Scientist Training Programme [3] and Higher Specialist Scientist Training [4].

### **Entry requirements**

There are several different ways to start your career in microbiology, 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 microbiology. 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 Scientist Training Programme, you'll need a 1st or 2:1 in relevant first degree or relevant higher degree and 2:2 in relevant degree subject.

Higher Specialist Scientist Training is available for registered Clinical Scientists in microbiology or Senior Biomedical Scientists with relevant MSc or specialist diploma.

# Where a career in microbiology will take you

Working in clinical biochemistry can lead to registration as a Clinical Scientist. You can then move into senior and consultant Clinical Scientist roles, through the <u>Higher Specialist Scientist</u> Training (HSST) programme [4].

It can also lead to careers in academia, research, industry, management and leadership and training.

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#### Microbiology Operational Manager

Newport, NP20 2UB

Salary:

£54550.00 to £61412.00

Type:

Permanent

Employer:

Aneurin Bevan University Health Board

Apply now on NHS Jobs for Microbiology Operational Manager job (opens in a new window) [5]

### Deputy Head of Microbiology

Worthing, BN11 2DH

Salary:

£62215.00 to £72293.00

Type:

Permanent

Employer:

University Hospitals Sussex NHS Foundation Trust (279)

Apply now on NHS Jobs for Deputy Head of Microbiology job (opens in a new window) [6]

### Advanced Biomedical Scientist - Microbiology

Ipswich, IP4 5PD

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

East Suffolk and North Essex NHS Foundation Trust

Apply now on NHS Jobs for Advanced Biomedical Scientist - Microbiology job (opens in a new window) [7]

### Specialist Biomedical Scientist - Microbiology

Liverpool, L12 2AP

Salary:

£37338.00 to £44962.00

Type:

Fixed-Term

Employer:

Alder Hey Children's NHS Foundation Trust

Apply now on NHS Jobs for Specialist Biomedical Scientist - Microbiology job

(opens in a new window) [8]

### Senior Biomedical Scientist Microbiology

Newport, Isle of Wight, PO30 5TG

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

Isle of Wight NHS Trust

Apply now on NHS Jobs for Senior Biomedical Scientist Microbiology job (opens in a new window) [9]

#### Specialist Biomedical Scientist - Microbiology

Leicester, LE1 5WW

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

University Hospitals of Leicester NHS Trust

<u>Apply now on NHS Jobs for Specialist Biomedical Scientist - Microbiology job</u>

<u>(opens in a new window)</u> [10]

### Medical Secretary - Microbiology Department

Newport, NP20 2UB

Salary:

£26928.00 to £29551.00

Type:

Fixed-Term

Employer:

Aneurin Bevan University Health Board

Apply now on NHS Jobs for Medical Secretary - Microbiology Department job (opens in a new window) [11]

### Quality Control Lead Scientist Microbiology

Seaton Delaval, NE25 0QJ

Salary:

£46148.00 to £52809.00

Type:

Permanent

Employer:

Northumbria Healthcare NHS Foundation Trust

<u>Apply now on NHS Jobs for Quality Control Lead Scientist Microbiology job (opens in a new window)</u> [12]

#### Quality Control Senior Scientist Microbiology

Seaton Delaval, NE25 0QJ

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

Northumbria Healthcare NHS Foundation Trust

Apply now on NHS Jobs for Quality Control Senior Scientist Microbiology job

(opens in a new window) [13]

#### Biomedical Scientist Microbiology Virology (part time)

Worcester, WR5 1DD

Salary:

£29970.00 to £36483.00

Type:

Permanent

Employer:

Worcestershire Acute Hospitals NHS Trust

Apply now on NHS Jobs for Biomedical Scientist Microbiology Virology (part time) job (opens in a new window) [14]

### Specialist Biomedical Scientist Microbiology (Part Time)

Worcester, WR5 1DD

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

Worcestershire Acute Hospitals NHS Trust

Apply now on NHS Jobs for Specialist Biomedical Scientist Microbiology (Part Time) job (opens in a new window) [15]

### Quality Manager/Deputy Laboratory Manager - Microbiology Speciality

Stanley, AA1 1AA

Salary:

£42000.00 to £52000.00

Type:

Fixed-Term

Employer:

Falkland Islands Government

Apply now on NHS Jobs for Quality Manager/Deputy Laboratory Manager - Microbiology Speciality job (opens in a new window) [16]

### Further information

- Association for Clinical Biochemistry and Laboratory Medicine Microbiology Group
- Academy for Healthcare Science [18]
- Health and Care Professions Council [19]
- National School of Healthcare Science [20]
- Public Health England [21]

# Other roles that may interest you

- Biomedical science [22]
- Clinical immunology [23]
- Healthcare science assistants and associates [24]
- Haematology (healthcare scientist) [25]

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#### Links

[1] https://www.healthcareers.nhs.uk/explore-roles/healthcare-science/roles-healthcare-science/life-sciences/microbiology/real-life-story-gemma-clark [2] https://www.healthcareers.nhs.uk/working-health/working-nhs/nhs-pay-and-benefits/agenda-change-pay-rates [3]

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http://www.hcpc-uk.org/ [20] http://www.nshcs.hee.nhs.uk/ [21]

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