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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.

Live vacancies

Find a vacancy

Enter your location or postcode

Show results within

Microbiology Specialist BMS

Hereford, HR1 2ER

Salary:

£37338.00 to £44962.00

Type:

Fixed-Term

Employer:

Wye Valley NHS Trust

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

Microbiology Service Unit Manager

Chelmsford, CM1 7ET

Salary:

£55690.00

Type:

Permanent

Employer:

Mid and South Essex NHS Foundation Trust

Apply now on NHS Jobs for Microbiology Service Unit Manager job (opens in a new window) [6]

Specialist Biomedical Scientist - Microbiology

Ipswich, IP4 5PD

Salary:

£37338.00 to £44962.00

Type:

Permanent

Employer:

East Suffolk and North Essex NHS Foundation Trust

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

Biomedical Support Worker - Microbiology

Bedford, MK42 9DJ

Salary:

£24625.00 to £25674.00

Type:

Fixed-Term

Employer:

Bedfordshire Hospitals NHS Foundation Trust

<u>Apply now on NHS Jobs for Biomedical Support Worker - Microbiology job (opens in a new window)</u>

[8]

Specialist Biomedical Scientist in Microbiology

Chelmsford, CM1 7ET

Salary:

£38682.00

Type:

Permanent

Employer:

Mid and South Essex NHS Foundation Trust

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

Specialist Biomedical Scientist, Microbiology (SPS)

Taunton, TA1 2LB

Salary:

£38385.00 to £46221.00

Type:

Permanent

Employer:

Integrated Pathology Partnerships Limited

Apply now on NHS Jobs for Specialist Biomedical Scientist, Microbiology (SPS) job (opens in a new window) [10]

Advanced Biomedical Scientist - Microbiology *£2,000 Incentive*

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 *£2,000 Incentive* job (opens in a new window) [11]

Further information

- Association for Clinical Biochemistry and Laboratory Medicine Microbiology Group
- Academy for Healthcare Science [13]
- o Health and Care Professions Council [14]

- National School of Healthcare Science [15]
- Public Health England [16]

Other roles that may interest you

- Biomedical science [17]
- Clinical immunology [18]
- Healthcare science assistants and associates [19]
- Haematology (healthcare scientist) [20]

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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]

https://www.healthcareers.nhs.uk/career-planning/study-and-training/graduate-training-opportunities/nhs-scientist-training-programme [4] https://www.healthcareers.nhs.uk/career-planning/developing-your-health-career/nhs-higher-specialist-scientist-training [5] https://beta.jobs.nhs.uk/candidate/jobadvert/C9229-25-0443 [6] https://beta.jobs.nhs.uk/candidate/jobadvert/C9390-25-1423 [7]

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https://beta.jobs.nhs.uk/candidate/jobadvert/C9432-25-0883 [12]

http://www.acb.org.uk/whatwedo/micro_group_homepage.aspx [13] http://www.ahcs.ac.uk [14]

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