

Careers in Biology

BIOLOGY

careers using biology

brewing
medicine
dentistry
dietetics
forensics
pharmacology
marine biology
physiotherapy
paramedical work
environmental health

audiology
psychiatry
radiography
horticulture
food science
biochemistry
sports science
speech therapy
occupational therapy
ophthalmics and orthoptics

nursing
ecology
teaching
agriculture
biotechnology
fisheries work
laboratory work
veterinary work
prosthetics and orthotics
environmental science



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Careers in Biology



ENVIRONMENTAL SCIENCE

careers using environmental science

| | | |
|---------------------------|---------------------------|--------------------------|
| ecology | surveying | forestry |
| agriculture | horticulture | meteorology |
| geoscience | water management | microbiology |
| biotechnology | waste management | fish farming |
| renewable energy | gamekeeping | oceanography |
| nature conservation | agricultural science | sustainable energy |
| environmental engineering | marine biology | environmental biology |
| landscape architecture | civil engineering | wildlife management |
| environmental consultancy | environmental education | countryside management |
| urban regional planning | rural resource management | environmental management |



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5 WORK SKILLS BIOLOGY WILL GIVE YOU



CURIOSITY



In school: You'll learn to ask penetrating questions which help you see how the different parts of the natural world fit together. Thinking about why nature is the way it is will give you a better grasp of the world.

ORGANISATION



In school: Biology is about the way the natural world is made up. This requires a well-organised, logical approach to help you reach a full understanding of the connections between different living things.

ANALYSIS



In school: Biologists use their findings – and those of others – to reach conclusions. You will analyse and interpret data from experiments and research, and combine this with the knowledge you have built up from your study of biology.

COMMUNICATION



In school: You will have to conduct experiments and summarise your findings to your classmate and teacher. You will need to convey your ideas clearly and informatively and offer persuasive conclusions based on your observations.

CRITICAL THINKING



In school: Evaluating problems with a rational eye is an essential skill for any scientist. For example, to control a disease epidemic, it is vital to understand the source and means of transmission in order to tackle the underlying problem.



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Careers in Biology

Biology is widely recognised as the study of life and living matter. One of the three main scientific disciplines, biology can be divided into numerous specialised fields, although ultimately all of the different branches of biology can be brought together by their common understandings about living things.

All biological disciplines work on the basis that cells are the basic units of life and they make up the composition of all living things, while genetic information within the cells is responsible for determining the structure and function of each individual cell.

Cells can evolve, which creates new species, and all living things require energy to exist. The final common understanding in biology is that homeostasis must be maintained, meaning a state of balance between the living matter and its environment. Since the 1953 discovery of the structure of DNA, our collective understanding of the field of biology has rapidly increased.

Jobs directly related to Biology include:

- Academic researcher
- Higher education lecturer
- Marine biologist
- Microbiologist
- Nature conservation officer
- Secondary school teacher
- Soil scientist

Jobs where Biology would be really useful include:

- Anatomical pathology technologist
- Animal physiotherapist
- Dentist
- General practice doctor
- Genetic counsellor
- Neuroscientist
- Science writer

Typical employers

- Employers recruiting graduates for biology-related jobs include:
- pharmaceutical and biotechnology companies
- private hospitals and NHS trusts
- national and global health, conservation and environmental charities
- scientific and technical consultancies
- schools and colleges

- outreach organisations, such as museums, science centres and broadcast companies.

Skills for your CV

In addition to subject-specific knowledge of biological systems and concepts, you develop a range of practical and technical skills and learn how to use specialist techniques and technical equipment.

You also develop more general skills, which are attractive to employers in all sectors. These include:

- communication, through report writing and presentations
- teamworking and collaboration, through group projects and seminars
- the ability to work independently
- organisation and time management, through meeting course work deadlines
- numeracy and maths
- IT and computer literacy
- research and data analysis
- problem-solving and creative thinking
- project management
- self-reliance, initiative and business awareness. ●

Apprenticeships in Biology

There's more to agriculture, environment and animal care apprenticeships than muddy boots and farming—and demand for workers is at an all-time high.

If you love the thought of spending your days working outside in the fresh air and the idea of an office job fills you with dread, then a career in agriculture, environmental and animal care could put you at the forefront of supplying the country with food, producing crops, and enriching the rural and urban environment.

Agriculture, environment and animal care apprenticeships can be broken down into land management and production, animal health and welfare, and environmental industries. It's not just about muddy wellies, unsocial working hours and manual labour, either, apprenticeships in this sector can offer you the chance to have a rewarding impact on many levels; whether that means working hands-on or not.

There is a wide variety of jobs in the sector, and while many of them are practical, requiring physical effort and work outdoors, there are also opportunities for people to work as skilled technicians, managers and other specialist roles.

Roles include general farm workers, crop technicians, forest operatives, sports turf operatives and countryside ranger. There are also creative occupations available, such as floristry, as well as caring jobs that include working for animal welfare

charities, as a veterinary nurse, a farrier or a fisher. In addition, there are more technical roles on offer and many management opportunities.

At a time when environmental work is rapidly increasing in importance, you could take a look at the ecologist apprenticeship, which is a highly scientific and technical role looking at the relationships between plants, animals, people and their environment.

So whether your interest is in outdoor practical work or more theoretical work, you'll open yourself up to plenty of opportunities and career progression. And if you've always wanted to be your own boss, then this could be a good place to start

<https://apprenticeshipguide.co.uk/apprenticeship-category/industry-sectors/a-griculture-environmental-animal-care-apprenticeships/>

<https://www.apprenticeships-in-sussex.com/>

Studying Biology at university

- Biology degrees come in many different forms. You can choose to study straight biology or a closely related subject, for example:
- a human biology degree ● a marine biology degree
- a molecular biology degree
- a cell biology degree
- a life sciences degree
- an anatomy degree
- a physiology degree ● a microbiology degree.
- Biology degree modules

BIOLOGY

Careers using biology

| | | |
|----------------|----------------------|-----------------------|
| Teaching | Environmental Health | Horticulture |
| Medicine | Biochemistry | Pharmacology |
| Psychiatry | Sports Science | Environmental Science |
| Radiography | Nursing | Occupational Therapy |
| Forensics | Veterinary work | Dietetics |
| Marine Biology | Biotechnology | Speech Therapy |
| Physiotherapy | Food science | Paramedic |

APPRENTICESHIPS LINKED TO SCIENCE

- BIOMEDICAL SCIENTIST
 - DOCTOR
 - HEALTHCARE SCIENCE ASSISTANT
 - LABORATORY SCIENTIST
 - METROLOGY TECHNICIAN
 - NUCLEAR SCIENTIST
 - PHARMACY SERVICES ASSISTANT
 - PHYSIOTHERAPIST
 - REGISTERED NURSE
 - SONOGRAPHER
- AND MANY MORE!**



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