

The study of Biology provides a solid foundation for a wide range of careers, with key skills such as problem-solving, analysis and communication being very transferable.

Finding the Cure

Biologists work in a huge range of health-related careers. Clinical Biologists, Physiologists, and Pharmacologists develop and trial new medicines, test blood and tissue for diseases and advise medical practitioners on the best treatments for their patients. Geneticists are replacing defective genes enabling them to restore sight and help support people's immune systems.

Protecting the Planet

Conservation Biologists, Ecologists, and Environmental Managers travel the globe documenting our environment, monitoring the effects of global warming, protecting habitats from destruction or potentially harmful species, and rebuilding damaged ecosystems.

Fuelling up

The race is on to find new and sustainable fuels for the future. Biotechnologists and Biochemists are combining Biology with Chemistry and engineering techniques to develop sustainable sources of energy, creating cleaner, greener fuels from sunlight, carbon dioxide and algae.



'Preparing students for a lifetime of employability'

careers@horizoncc.co.uk

'Preparing students for a lifetime of employability'



BIOLOGY

5 work skills that Biology will give you:

Curiosity

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. You will need to make observations based on experiments and draw conclusions.

Analysis

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. Analysis of data and your findings is a vital employability skill.

Critical Thinking

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.

Organisation

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. It is essential that you organise your experiments and collate your findings in a way that others can understand them.

Communication

You will have to conduct experiments and summarise your findings to others. You will need to convey your ideas clearly and informatively and offer persuasive conclusions based on your observations.

Where can Biology take you?

Practical jobs where Science is useful:

- Beauty Therapist
- Hairdresser
- Electrician
- Fingerprint Officer
- Sterile Services Technician
- Textile Machinery Technician
- Water Treatment Worker
- Plumber

Science Research and Lab Work based jobs:

- Animal Technician
- Biochemist
- Biologist
- Biomedical Scientist
- Biotechnologist
- Pharmacologist
- Clinical Scientist
- Forensic Scientist
- Geneticist
- Laboratory Technician
- Microbiologist (life sciences)
- Research Scientist (medical)

Healthcare related jobs:

- Dental Nurse
- Dentist
- Dietician
- Doctor
- Healthcare Assistant
- Midwife
- Nurse
- Optician
- Paramedic
- Physician Associate
- Physiotherapist
- Speech Therapist

Land Based & Conservation:

- Botanist
- Ecologist
- Nature Conservationist
- Soil Scientist
- Zoologist

Other job:

- Clinical Engineer
- Scenes of Crime Officer
- Secondary School Teacher
- Sports Scientist
- Veterinary Nurse/Surgeon

Future of Job Facts:

Agriculture

Agriculture - This sector employs over **350,000** people across the UK. Although core agricultural roles are expected to drop by 2030, many new jobs will be created in 'Agri-Tech'.

Investment

By studying Biology you will be able to start a career in the investment management industry, as a key part of your studies is to compare data, which is a useful skill in this field.

Science & Research

Between 2016 and 2023, jobs in science and research will grow at twice the rate of other industries, creating **142,000** new jobs. One in every six jobs will be in science and research.

Engineering

The proportion of young engineers has dropped over the last decade. This means there will be a high demand for younger workers in coming years.

Medicine & Healthcare

The UK healthcare industry employs over **four million** people, making it one of the largest employment sectors. Four of the five highest average graduate salaries are in fields related to medicine.

Emergency Services

There is a high demand for trained paramedics with one in 10 vacancies unfilled. Within the police force, digital and IT skills are highly sought after to better fight crime.