

What careers can my subject lead to?

Science - Biology

Biology graduates are well placed to succeed in any job where data handling or research skills are important. These jobs would not necessarily have to be restricted to science-based employers.

There are plenty of careers available to Biology students, such as Research Scientist, Pharmacologist, Biologist, Ecologist, Nature Conservation Officer, Biotechnologist, Forensic Scientist, Government Agency roles, Science Writer, Teacher.

Specific skills:

- time and self-management;
- data management, analysis and interpretation;
- concise and accurate writing and communication skills;
- research skills;
- organisational skills;
- presentation skills;
- ability to identify and predict trends and patterns;
- ability to interpret and evaluate events, information, and ideas;
- computer literacy.

Science – Chemistry

Chemistry students typically develop strong analytical, problem solving and time management skills, which make them highly employable in a range of professions. Many Chemistry graduates go on to careers in business, science and education such as pharmaceuticals, healthcare, chemical engineering, research and the public sector.

Specific skills:

- critical and evaluative thinking;
- communication and interpersonal skills;
- research and analysis;
- good problem solving skills;
- discipline and a good work ethic.

Science – Physics

One of the great benefits of studying Physics is the employability and the wide range of potential career directions afterwards. They may pursue careers in science in academia or industry, seek work in a related area such as teaching physics or science communication, or take up jobs in business or finance. Some examples would be, Accelerator Operator, Applications Engineer, Data Analyst, Design Engineer, High School Physics Teacher, IT Consultant, Lab Technician, Laser Engineer, Optical Engineer, Research Associate, Software Developer, Systems Analyst, Technical Specialist, Web Developer.

Many Physics graduates go on to further study after finishing their undergraduate degrees.

Specific skills:

- communication and presentation skills;
- computational and data-processing skills;
- data analysis using a range of appropriate statistical methods and packages;
- identify and predict trends and patterns;
- problem solving skills;
- report writing;
- research skills.

Science – Engineering

Engineers tend to be clear thinking and logical. They can follow either instructions or design specifications to the letter. They can take on a lot at once, are prepared for a challenge, are not afraid of long hours and work hard in order to gain good results.

Engineering graduates have a broad range of career options, including different kinds of engineering roles, jobs in related areas such as supply chain and jobs in other industries such as finance and IT.

Specific skills:

- planning;
- analytical thinking;
- presentation and other communication skills;
- numeracy, statistics and computing;
- capacity for detail;
- data analysis;
- logical thinking;
- problem solving;
- organisational abilities;
- project management;
- research skills;
- teamwork;
- resilience.

Science – Medicine

Medicine and nursing degrees involve many of the same transferable skills and give graduates specialist knowledge that can be an advantage in other careers.

Whether you have decided that hands-on nursing is not for you, or that you do not want to be stuck in medicine training for years on end, there are a number of possible routes.

Specific skills:

- adaptability and flexibility;
- analytical skills;
- problem solving skills;
- providing person-centred care;
- risk management skills;
- teamworking skills;
- verbal and non-verbal communication skills.

Science Apprenticeships:



A subject snapshot guide for teachers

<https://amazingapprenticeships.com/app/uploads/2020/01/NAW2020-Science-Subject-Snapshot.pdf>

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

CHEMISTRY

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careers using chemistry

brewing
dentistry
engineering
agriculture
biochemistry
environmental health
chemical plant operation
environmental science
waste management

medicine
food science
horticulture
laboratory work
chemical engineering
materials science
research and development
plastics and polymers technology
colour technology and dyeing

dietetics
teaching
nursing
biotechnology
quality control
pharmaceuticals
forensic science
medicinal chemistry
oil and gas production



ENGINEERING SCIENCE

careers using engineering science

industrial design
building technology
computing science
telecommunications
marine engineering
auto electrical repair
electrical engineering
landscape architecture
prosthetics and orthotics
manufacturing systems

surveying
architecture
control systems
civil engineering
energy engineering
materials science
naval architecture
railway maintenance
gas service mechanics
engineering technology

product design
electrical trades
security systems
aircraft engineering
electronic engineering
energy engineering
building management
offshore engineering
mechanical engineering
environmental engineering



ENVIRONMENTAL SCIENCE

careers using environmental science

- ecology
- agriculture
- geoscience
- biotechnology
- renewable energy
- nature conservation
- environmental engineering
- landscape architecture
- environmental consultancy
- urban regional planning

- surveying
- horticulture
- water management
- waste management
- gamekeeping
- agricultural science
- marine biology
- civil engineering
- environmental education
- rural resource management

- forestry
- meteorology
- microbiology
- fish farming
- oceanography
- sustainable energy
- environmental biology
- wildlife management
- countryside management
- environmental management



P H Y S I C S

careers using physics

medicine
surveying
engineering
radiography
physiotherapy
nanotechnology
renewable energy science
aerospace manufacturing
medical physics

architecture
meteorology
teaching
electronics
medical technology
engineering technology
oceanography
telecommunications
sound technology

astronomy
dentistry
audiology
geophysics
astrophysics
auto electrical repair
ophthalmics/orthoptics
research and development
software engineering

SCIENCE

WE'VE GOT THE APPRENTICESHIP FOR YOU!



NUCLEAR SCIENTISTS AND ENGINEERS

observe, record and draw conclusions from data to provide suitable solutions to nuclear applications.



LABORATORY SCIENTISTS

carry out laboratory based experiments in their specialist field in order to find new solutions to problems.



FOOD INDUSTRY TECHNICAL PROFESSIONALS

ensure the smooth transition of food and drink products from farm to fork. They also ensure the safety and quality of food and drink products.



HEALTHCARE SCIENCE PRACTITIONERS

work in hospitals and other healthcare settings, carrying out routine procedures.



NURSES

give care, advice and support to sick, injured or disabled people.

MORE INFO

There are many other apprenticeships you might be interested in:

Food Scientist, Meteorologist, Forensic Scientist, Pharmacologist, Geospatial mapping Specialist, Acoustics Technician, Non-Destructive Testing Engineer and many more!