

# Careers Pathways in Science

## Facts

- A degree in science can lead to just about anywhere. In fact those with science degrees are amongst the most sought after graduates, as they are good at problem solving, work well in teams and know how to produce results.
- UK hospitals and other clinical settings are renowned for the quality of their teaching and their influential medical research.
- Biomedical scientist carry out a range of laboratory and scientific tests to support the diagnosis and treatment of disease. Many hospital departments could not function without them, including operating theatres and Accident and Emergency departments
- Government researchers usually work in UK research council institutes and laboratories. Their main jobs is research on both government and private commissioned projects.



## Job Opportunities

You may choose to work in the private sector as an industrial scientist. This may be in pharmaceutical company involved in developing and testing new drugs and other treatments

Employers in the chemicals, pharmaceuticals and energy industries have identified a shortfall of 40,000 technicians and operators by 2022

Most science and engineering companies provide training opportunities and map out long term careers paths. These often include international travel.

There is expected to be a 48% increase in demand for Physical environmental science graduates up to 2020.

Vets working in general practice are responsible for medical and surgical treatment of a range of animals, including domestic, zoo and farm animals. They also work to prevent disease. There are mixed veterinary practices and those specialising in small animals, food producing and equines work, amongst others.



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Career Area	Job Description	Career Pathways	A Level Subject
Veterinary Science	Vets are qualified to diagnose and treat pets, livestock and exotic animals. They can work in a variety of environments.	As well as a careers as a Vet other employment opportunities from taking this pathway include research and wildlife	You will need to study A Level biology and Chemistry. A Levels in Maths and Physics are also strongly recommended.
Biomedical Sciences	This pathway will interest those who see their future in specialist laboratory work.	Possible careers may be lab-based, could include expert an consultant roles, research, education and management	You should consider studying A Levels in Biology, Chemistry, Maths or Physics or a BTEC Level 3 Diploma in Applied Science A Level Chemistry is essential for some University Courses
Biological / Life Sciences	These sciences are concerned with the study of living organisms, including biology, zoology, microbiology and biochemistry.	This may lead to careers in Zoology, Marine Biology, Pathology, Genetics and Embryology	You should consider studying A Level Chemistry plus at least one other from A Level Maths, Physics or Biology
Medicine / Dentistry	The practice of Medicine and Dentistry offers a breadth of experience that are impossible to find in any other subject. Everyday bring a different patient.	Careers include surgery, Dentistry, Pathology, General Practice and Medical Specialists.	You will need to study A Levels in Chemistry and Biology and either Maths or Physics.
Earth Sciences	Earth Scientist learn how our planet works, which is essential if we are to properly manage our environment and predict how it will change in the future.	This pathway will lead to careers in Geology, Agricultural sciences, archaeology, health and safety, mineral exploration and soil science	A Levels in Chemistry and Maths are strongly recommended. Other recommended subjects are A Level Biology or Geography

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## Useful Websites

Careers after your degree [www.prospects.ac.uk](http://www.prospects.ac.uk)

NHS Careers – England [www.nhscareers.nhs.uk](http://www.nhscareers.nhs.uk)

Royal College of Veterinary Surgeons (RCVS) [www.rcvs.org.uk](http://www.rcvs.org.uk)

British Medical Association (BMA) [www.bma.org.uk](http://www.bma.org.uk)

Institute of Physics and Engineering in Medicines (IPEM) [www.ipem.org.uk](http://www.ipem.org.uk)

Information on jobs in the Pharmaceutical Industry [www.eMedCareers.co.uk](http://www.eMedCareers.co.uk)

UK Research Councils [www.rcuk.ac.uk](http://www.rcuk.ac.uk)

Science, Technology, Engineering and Maths Careers  
[www.wherestemcantakeyou.co.uk](http://www.wherestemcantakeyou.co.uk)

British Dental Association [www.bda.org](http://www.bda.org)

Society of Radiographers [www.sor.org](http://www.sor.org)

Forensic Science [www.forensic-science-society.org.uk](http://www.forensic-science-society.org.uk)

Environmental careers [www.cjamheagents.org.uk](http://www.cjamheagents.org.uk)

British Geological Society (BGS) [www.bgs.ac.uk](http://www.bgs.ac.uk)

Science Career Pathways [www.sciencecareerpathways.com/a-z-of-roles/](http://www.sciencecareerpathways.com/a-z-of-roles/)