P H Y S I C S R O U T E S

S U B J E C T P A T H W A Y S

# C A R E E R S

## Many careers directly related to physics require higher education - and sometimes postgraduate - qualifications in either physics or a related subject. They include:

Astronomer Geophysicist Materials scientist

Medical physicist Research scientist Teacher / Lecturer

## There are several careers where physics is useful or preferred although there may be other entry requirements too. They include:

Acoustics engineer Architect

Architectural technologist Audiologist

Automotive engineer Broadcast engineer Building technician Civil engineer Clinical engineer

Computer service technician Dental technician

Electrical engineer Electrician

Energy engineer Engineering technician

Investment analyst Materials technician Medical physics technician Meteorologist

Motor vehicle technician Operational researcher Optometrist

Patent attorney Quantity surveyor Radiographer

Site manager Software developer Sound technician Systems engineer Telecoms technician

# S K I L L S

Studying Physics can also help you develop wider skills such as:

Accuracy Attention to detail Communication Data handling

ICT

Logical thinking Numeracy Observation

Organising and planning Practical

Problem-solving Reasoning and analysis Research

Team working Time management

Working independently

These skills are needed for many jobs at different levels and with a range of entry requirements. Here’s a selection:

Accountant Accounting technician Air traffic controller Care assistant

Customer service assistant Dental nurse

Financial Adviser Helpdesk adviser Insurance broker Legal executive Logistics manager

Management consultant Market researcher Medical receptionist

Motor vehicle parts worker Nurse

Police officer Plumber

Retail manager Sales manager Social worker Solicitor

D I D Y O U K N O W ?

The physicist and TV presenter, Professor Brian Cox used to play keyboards with chart toppers D:Ream!

Angela Merkel, the Chancellor of Germany studied for a degree in physics.

# R O U T E S

There are different routes into many careers, including further education, higher education and apprenticeships. There are higher and degree apprenticeships in sectors such as engineering, construction, health care and facilities management. These involve studying for university-level qualifications while you work and earn a salary.

You may need other subjects alongside physics, particularly maths, English and sciences such as chemistry or biology.

You may have a choice between studying GCSE Double Science (sometimes called 'Combined Science’ and equivalent to two GCSEs) or separate biology, chemistry and physics. Speak to your teachers and careers adviser about which might suit you best, particularly if you’re thinking about taking sciences at A-Level.

F I N D O U T M O R E

For more job ideas, visit [nationalcareersservice.direct.gov.uk/youngpeople](https://nationalcareers.service.gov.uk/) then follow links to ‘Aged 13-19’ and ‘Do something you’re good at’.

If you’re thinking about higher education, visit: [www.prospects.ac.uk](http://www.prospects.ac.uk/) to see what art and design graduates have done after their degree.

Hailey Hall Careers lead

Peter Gregory – pgregory@haileyhall.herts.sch.uk

School independent Career advisors

Coral Thomas ( Hertfordshire students ) -Coral.Thomas@Hertfordshire.gov.uk

Laura Todd ( Essex students )-Laura.Todd@essex.gov.uk

**Other websites** [ccskills.org.uk](https://www.ccskills.org.uk/) [ucasprogress.com](http://www.ucasprogress.com/) [ucas.com](https://www.ucas.com/)

[icould.com](https://icould.com/) [iop.org/careers](https://www.iop.org/careers-physics) [wisecampaign.org.uk](https://www.wisecampaign.org.uk/)