

Physics

My Learning, My Future

Where can studying History take you? Highlighting the relevance of Physics to future careers and opportunities

Why study Physics?

Curiosity and
discovery

Technical
innovation

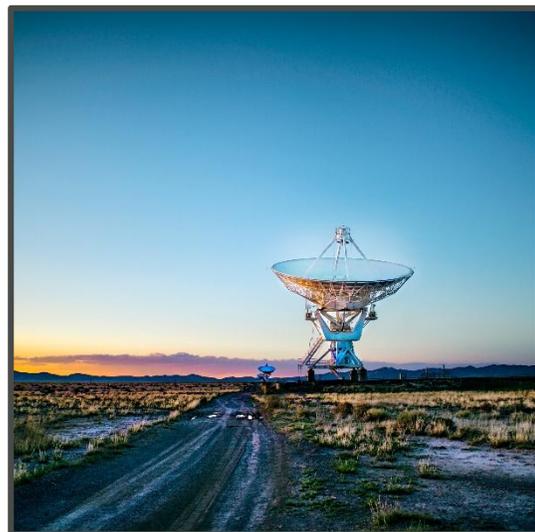
Career
opportunities

Tackle global
challenges

Understanding
the universe

Explore a career as a...

Here are some example roles and careers linked to Physics



Astrophysicist

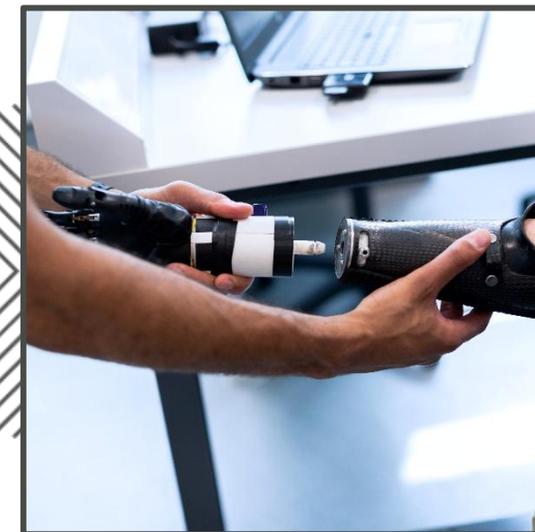
[Nasa case study](#)

[icould case study](#)



Naval Architect

[BBC Bitesize Profile](#)



Prosthetist/Orthotist

[BBC Bitesize case study](#)

[STEM case study](#)

Explore a career as a...

Here are some example roles and careers linked to Physics



Risk Manager

Job case study



Field Technician (Wind Turbine)

BBC Bitesize case study



Electrical Engineer

BBC Bitesize case study

STEM case study

Not so obvious jobs using Physics:

Ever thought about..?

BBC
Bitesize

[How to become an Audiologist:
Amun's story - BBC Bitesize](#)

[How to become a Field Technician:
Harry's story](#)

[How to become a Solar Farm
Manager: Manish's story](#)

**National
Careers
Service**

[Astronaut | Explore careers |
National Careers Service](#)

[Energy Engineer | Explore careers |
National Careers Service](#)

[Medical Physicist | Explore careers |
National Careers Service](#)



MYPATH Job of the week (Physics)

Neurologist

Nasa Engineer

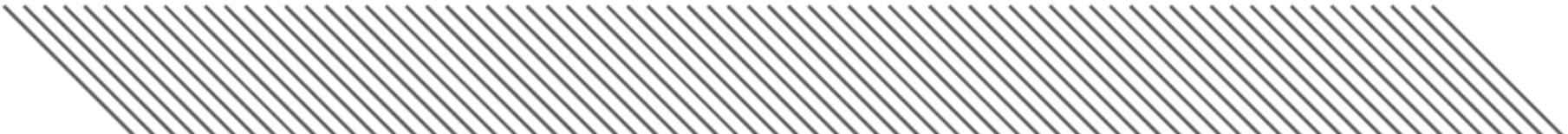
Mechanical Engineer

From passion to profession:

Share a role that sparks your interest

Prepare a 3 - 5 minute talk to share with a small group on any role that interests you related to Physics.



- What is the role?
 - What do you need to do to get this role?
 - Where do you need to go to carry out this role?
 - What might a typical day look like?
 - Why are you interested in this role?
- 

Discover more about the role

Explore careers using [National Careers Service](#) and find out about what jobs involve and how they are right for you

Includes:

- Average salary
- Typical hours
- Work patterns
- Pathways/How to become
- Essential Skills
- Daily tasks
- Career path and progression
- Current opportunities

Research Ideas:

- [Astronomer](#)
- [Naval Architect](#)
- [Prosthetist/Orthotist](#)
- [Risk manager](#)
- [Wind Turbine Technician](#)
- [Electrical Engineer](#)

National Careers Service

We provide information, advice and guidance to help you make decisions on learning, training and work.

This service is available to people who live in England.

Skills assessment

Learn more about your skills and match them to potential new careers.

[Assess your skills](#)

Explore careers

Choose from over 800 career profiles to discover what each job involves.

[Search job profiles](#)

Find a course

Look for online learning opportunities and training courses local to you.

[Look for courses](#)

Careers advice

Making career choices

Whether starting your career, changing job or if you have been affected by COVID-19, understand and make the right choice for you.

Getting a job

Be successful in the recruitment process with tips on great CVs, interviews and graduate scheme applications.

Progressing your career

Move up in your career by developing new skills. Find opportunities like volunteering and online learning.

About us

The National Careers Service can help you with your career, learning and training choices. [Find out more](#) about the different ways we can support you.

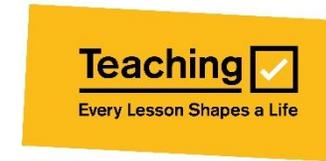
Speak to a careers adviser

Wherever you are in your decision-making, you can call us on [0800 100 900](#) or [use webchat](#).

Follow us

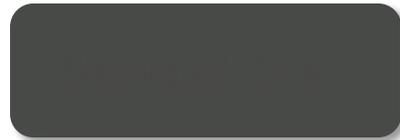
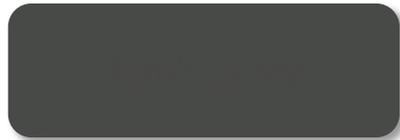
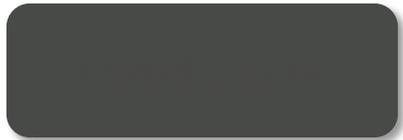
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Why not teach Physics?

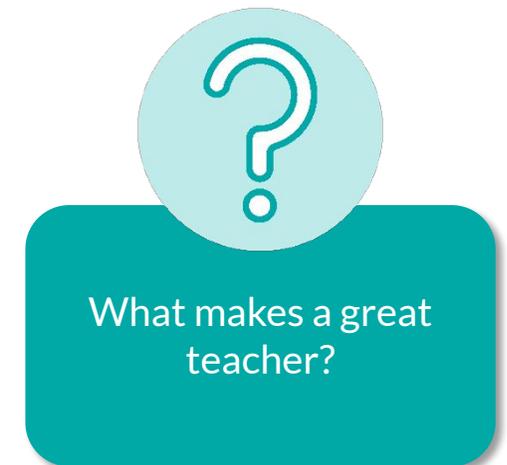
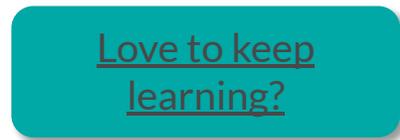
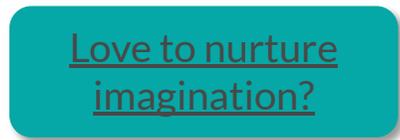
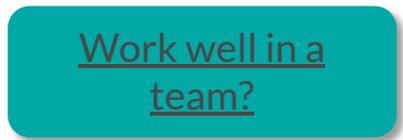


- No two days are the same – and neither are the pupils
- Once qualified you can teach throughout your life
- You could teach abroad
- Progress your career into leadership and management
- Bring your outside interests into the classroom and your subject

Explore teaching



The right skills to teach?



GCSE

While there are different routes you can take to be a teacher there are a few essential things that you will need:

- A minimum GCSE Grade 4 or above in English and Maths (plus Science if you want to teach primary)
- A degree or equivalent qualification

A-Level

A-Levels are 2 years of study

Degree

Complete a degree course

It is possible to get QTS as part of an undergraduate degree, for example:

- Bachelor of Arts (BA) with QTS
- Bachelor of Education (BEd) with QTS
- Bachelor of Science (BSc) with QTS

T level

T levels are nationally recognised, technical qualifications for 16–19-year-olds. Designed by leading employers, one T level is equivalent in size to 3 A-Levels

Vocational/Technical Qualification

These include BTEC, Applied General Qualifications (AGQ) and Vocational Technical Qualifications (VTQ) – all at Level 3

Level 4/5 qualifications

Complete a L4/5 course and top up to a degree – L4/5 includes Certificate of HE, Diploma of HE, Higher Technical Qualification (HTQ), HNC, HND and Foundation degrees

Top up to a degree (Level 6) in a year of full-time study

Apprenticeships

Apprenticeships are jobs which combine practical work and study. Intermediate is Level 2, Advanced is Level 3

Higher apprenticeships

Higher level apprenticeship (foundation degree / Level 5)

Degree apprenticeships

Degree apprenticeship (Level 6-7). There is a Level 6 Teaching apprenticeship programme

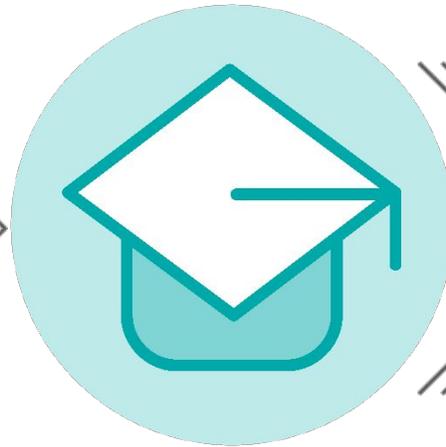
Initial Teacher Training (ITT) with qualified teacher status (QTS)

Teacher

Physics pathways



Combine study
and work



Study



Work



Combine study and work

Apprenticeships

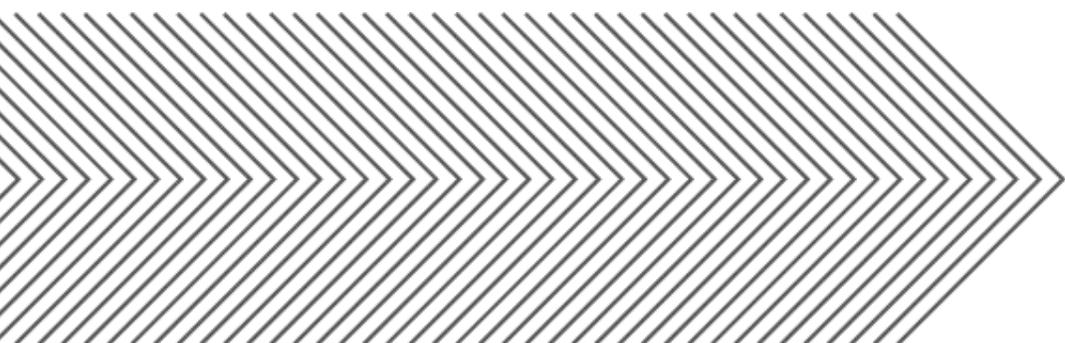
- Nuclear Scientist
- Metrology Technician
- Laboratory Scientist
- Veterinary Scientist
- Therapeutic Radiographer
- Forensic Practitioner
- Acoustics Technician
- Aerospace Engineer
- Software Developer

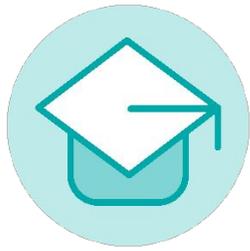
T Levels

- Design and Development for Engineering and Manufacturing
- Education and Early Years Health
- Healthcare Science
- Science
- Maintenance, Installation and Repair for Engineering and Manufacturing

VTQs

- Applied Science
- Engineering
- Electrical Electronic Engineering
- Operations and Maintenance Engineering
- Aviation Operations
- Forensic and Criminal Investigation





Study pathways

HTQs (Higher Technical Qualifications)

You will find occupation routes in:

- Construction and the Built Environment
- Engineering and Manufacturing

A levels

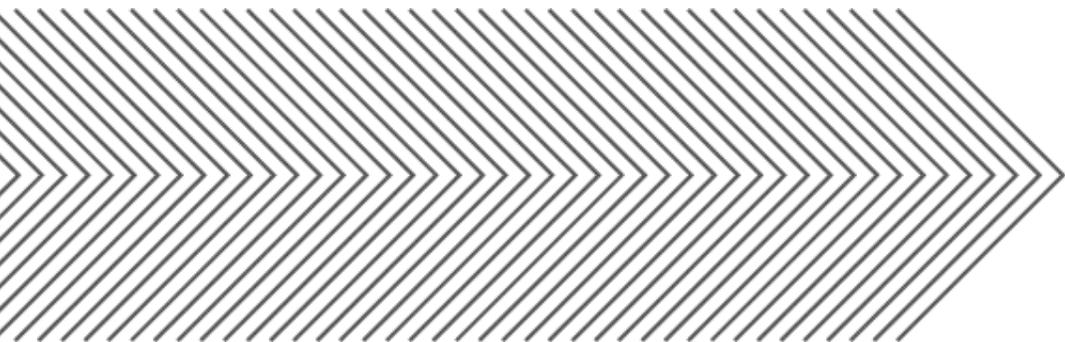
You might find courses in:

- Physics
- Engineering
- Statistics
- Computer Science

Higher education

You might find courses in:

- Aerospace Engineering
- Agriculture and related Sciences
- Medicine and allied subjects
- Electrical and Electronic Engineering
- Biophysics
- Veterinary Science
- Optometry
- Paramedic Science
- Physical Sciences
- Pharmacology, Toxicology and Pharmacy
- Radiography and Medical Technology





Work pathways

Supported internships with an education, health and care plan

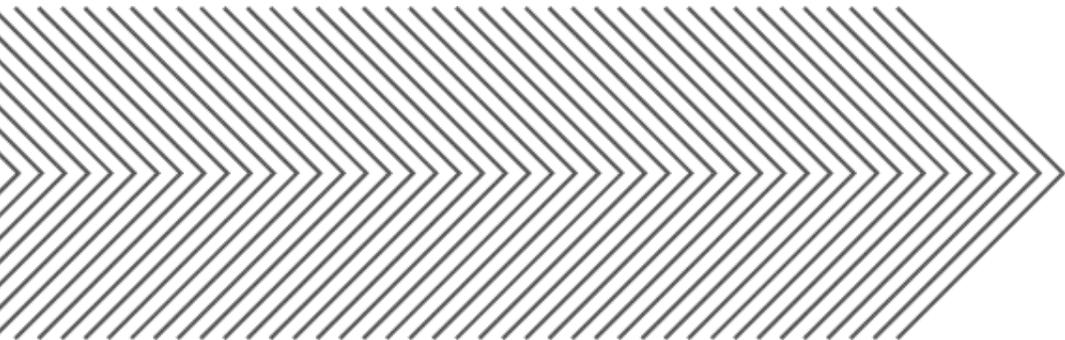
You might read about:

- [Access to Work Funding](#) (if you have a disability or health condition)
- [Preparing for Adulthood](#)

School leaver programmes

You might read about:

- [How to fill in an application form](#)
- [How to write a CV](#)
- [Interview help](#)
- [Progressing your career](#) (Careers Advice from NCS)



University league tables

See at a glance the university ranking for Physics

[Physics and Astronomy Rankings \(thecompleteuniversityguide.co.uk\)](https://thecompleteuniversityguide.co.uk)

Filter by:

- Overall score
- Entry standards
- Student satisfaction
- Research quality
- Research intensity
- Graduate prospects



THE CAREERS &
ENTERPRISE
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