Careers with PHYSICS
Nuclear engineers design and build nuclear plants and the equipment used in them. They carry out maintenance work and monitor radiation levels from power plants and their surroundings. Nuclear engineers are also responsible for the safe disposal of nuclear waste. They are collaborative, organised and communicative.

Physics to know
Particle model, periodic table, wave properties

Employer
Jacobs
www.jacobs.com/careers

Level
Undergraduate, Masters degree or PhD

Needs physics physics is useful Transferable skills from physics

For more on careers with physics visit: www.sepnet.ac.uk

Inspired by materials created by: www.nustem.uk
Careers with PHYSICS

South East Physics Network
**Visual effects artist**

Visual effects artists create computer generated characters, scenes and effects. They can specialise in areas such as film, television, commercials, games and immersive experiences. They often work as part of a team and may use both software and scripting or coding to create characters and scenes. Visual effects artists are **creative, imaginative** and **collaborative**.

**Physics to know**

Sound, light, speed

**Employer**

Framestore
www.framestore.com

**Level**

Undergraduate degree

☐ Needs physics  ☐ Physics is useful  ☑ **Transferable skills from physics**

For more on careers with physics visit: [www.sepnet.ac.uk](http://www.sepnet.ac.uk)

Inspired by materials created by: [www.nustem.uk](http://www.nustem.uk)
Careers with PHYSICS
Architects design buildings, spaces and places in all of the built environment. They work with a full team of professionals including structural engineers, civil engineers, quantity surveyors, interior designers, landscape architects and historic building specialists. Architects are creative, imaginative and collaborative.

Physics to know
Gravity, energy transfer, light

Employer
Brady Mallalieu Architects
https://bradymallalieu.com

Level
Undergraduate and postgraduate degree

- [ ] Needs physics  - [ ] Physics is useful  - [✓] Transferable skills from physics

For more on careers with physics visit: www.sepnet.ac.uk

Inspired by materials created by: www.nustem.uk
Careers with PHYSICS

South East Physics Network
Food technologists ensure that the food and drinks we consume are of consistent quality and safely produced. Food technologists are often involved in developing recipes, testing sample products and producing nutritional labels for food and drink products. They are **communicative, observant** and **curious**.

**Physics to know**
Wave properties, types of reactions, digestion

**Employer**
RSSL
www.rssl.com

**Level**
Undergraduate degree

☐ Needs physics  ☐ Physics is useful  ✔ Transferable skills from physics

For more on careers with physics visit: [www.sepnet.ac.uk](http://www.sepnet.ac.uk)

Inspired by materials created by: [www.nustem.uk](http://www.nustem.uk)
Careers with PHYSICS

South East Physics Network
Energy analysts support different parts of the energy team. They use energy data to accurately model what is happening in real life to enable the business to make decisions. They aren’t just interested in how many kWh have been used, they also want to make sure that the energy has been used efficiently. They are observant, communicative and logical.

**Physics to know**
Energy costs, energy transfer, forces

**Employer**
Thames Water
www.thameswater.co.uk/about-us/careers

**Level**
A Level or undergraduate degree

- Needs physics  
- **Physics is useful**  
- Transferable skills from physics

For more on careers with physics visit: [www.sepnet.ac.uk](http://www.sepnet.ac.uk)

Inspired by materials created by: [www.nustem.uk](http://www.nustem.uk)
Careers with PHYSICS
Geophysicist

Geophysicists use physics to explore deep into the earth using active and passive high-resolution imaging techniques based on many of the same principles as medical physics. Geophysicists are imaginative, logical and self-motivated.

Physics to know
Wave properties, wave effects, energy transfer

Employer
CGG
www.cgg.com/en

Level
Undergraduate and
Masters degree

Needs physics

Physics is useful
Transferable skills from physics

For more on careers with physics visit: www.sepnet.ac.uk

Inspired by materials created by: www.nustem.uk
Careers with PHYSICS

South East Physics Network
Games designer

Games designers use computers to create exciting and fun games. They use code to create playable virtual realities. Games designers are logical, imaginative and collaborative.

Physics to know
Forces, light, energy transfers

Employer
Fat Fish Games
www.fatfishgames.com

Level
Undergraduate or Masters degree

 Needs physics  Physics is useful  Transferable skills from physics

For more on careers with physics visit: www.sepnet.ac.uk

Inspired by materials created by: www.nustem.uk
Careers with PHYSICS
School teacher

Teachers educate and inspire school students with science. They use different methods to engage students and keep lessons interesting. Teachers are **communicative, creative and organised**.

**Physics to know**
All school curriculum

**Employers**
The Millais Alliance  
www.millaisalliance.org.uk  
Forest Learning Alliance  
https://forestlearningalliance.org

**Level**
Undergraduate or Masters degree

- [✓] Needs physics
- [ ] Physics is useful
- [ ] Transferable skills from physics

For more on careers with physics visit: **www.sepnet.ac.uk**

Inspired by materials created by: **www.nustem.uk**
Careers with PHYSICS
Spacecraft operators control the flight path of spacecraft and satellites. They program computers to do this using mathematical models. Spacecraft operators are logical, collaborative and observant.

Physics to know
Gravity, speed, energy transfers

Employer
Surrey Satellite Technology Ltd
www.sstl.co.uk

Level
Masters degree or PhD

- Needs physics
- Physics is useful
- Transferable skills from physics

For more on careers with physics visit: www.sepnet.ac.uk

Inspired by materials created by: www.nustem.uk
Careers with PHYSICS
Meteorologist

Meteorologists predict what will happen with weather on Earth. They use satellite observations and mathematical models to work out what is likely to happen and communicate this in a number of ways to a wide variety of customers. Meteorologists are observant, logical and collaborative.

Physics to know
Forces, wave properties, energy transfer

Employer
The Met Office
www.metoffice.gov.uk

Level
Undergraduate or Masters degree (other entry routes possible in the future)

Needs physics
Physics is useful
Transferable skills from physics

For more on careers with physics visit: www.sepnet.ac.uk

Inspired by materials created by: www.nustem.uk
Careers with PHYSICS

South East Physics Network
Astronomers study how the Universe works, from the origin of planets, stars and galaxies, to the understanding of cosmology. Astronomy is an interdisciplinary science that comprises physics, chemistry, computer science and mathematics. Theorists create computational and analytical models to develop new theories while observers design and carry out observing programmes to test theoretical predictions. Astronomers are passionate, observant and curious.

**Physics to know**
Light, wave properties, gravity

**Employer**
University of Surrey
www.surrey.ac.uk/astrophysics-research-group

**Level**
Masters degree or PhD

- Needs physics
- Physics is useful
- Transferable skills from physics

For more on careers with physics visit: [www.sepnet.ac.uk](http://www.sepnet.ac.uk)

Inspired by materials created by: [www.nustem.uk](http://www.nustem.uk)
Careers with PHYSICS
Laboratory technician

Laboratory technicians build and maintain equipment in scientific facilities, whilst working alongside senior scientists. They help carry out a variety of technical activities that assist with resolving problems. They are organised, creative and collaborative.

Physics to know
Energy transfer, forces, wave properties

Employer
National Physical Laboratory
www.npl.co.uk

Level
Apprenticeship
(Assistant research scientist)

☑ Needs physics  ☐ Physics is useful  ☐ Transferable skills from physics

For more on careers with physics visit: www.sepnet.ac.uk

Inspired by materials created by: www.nustem.uk
Careers with PHYSICS
Electrical engineer

Electrical engineers build and maintain electrical components. They make sure everything is safe and working as it should be. Electrical engineers are creative, logical and collaborative.

Physics to know
Voltage and resistance, current, energy transfers

Employer
AWE
www.awe.co.uk

Level
Apprenticeship

- Needs physics
- Physics is useful
- Transferable skills from physics

For more on careers with physics visit: www.sepnet.ac.uk

Inspired by materials created by: www.nustem.uk
Careers with PHYSICS

[Images of various physics-related careers and technologies]

SEPMnet
South East Physics Network
Radiographer

Radiographers use equipment to diagnose or treat patients who are ill or injured. Diagnostic radiographers will produce and interpret high quality images of the body, using both non-ionising and non-ionising radiations. Therapeutic radiographers plan and give treatment to patients using ionising radiations. Radiographers are observant, communicative and organised.

Physics to know
Magnetism, wave properties, cells

Employer
The Royal Marsden NHS Foundation Trust
www.royalmarsden.nhs.uk

Level
Undergraduate degree

Needs physics ✔️ Physics is useful ☐ Transferable skills from physics

For more on careers with physics visit: www.sepnet.ac.uk

Inspired by materials created by: www.nustem.uk