

# Careers with **PHYSICS**



**SEP**net  
South East Physics Network

# Nuclear engineer

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](http://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](http://www.sepnet.ac.uk)

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# 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](http://www.framestore.com)

## Level

Undergraduate degree

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

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# Architect

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**

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# Food technologist

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](http://www.rssl.com)

## Level

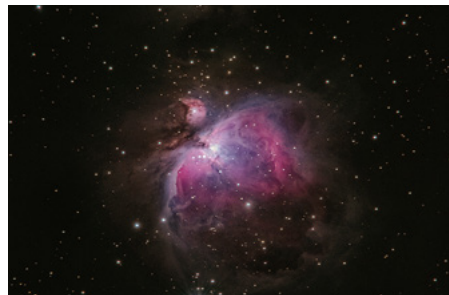
Undergraduate degree

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

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# Energy analyst

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](http://www.thameswater.co.uk/about-us/careers)

## Level

A Level or  
undergraduate degree

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

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# 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](http://www.cgg.com/en)

## Level

Undergraduate and  
Masters degree

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# 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](http://www.fatfishgames.com)

## Level

Undergraduate or  
Masters degree

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

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# 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](http://www.millaisalliance.org.uk)

Forest Learning Alliance

<https://forestlearningalliance.org>

## Level

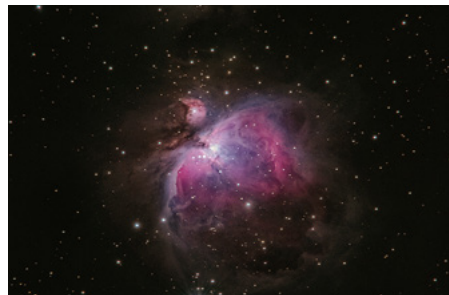
Undergraduate or  
Masters degree

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

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# Careers with **PHYSICS**



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# Spacecraft operator

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

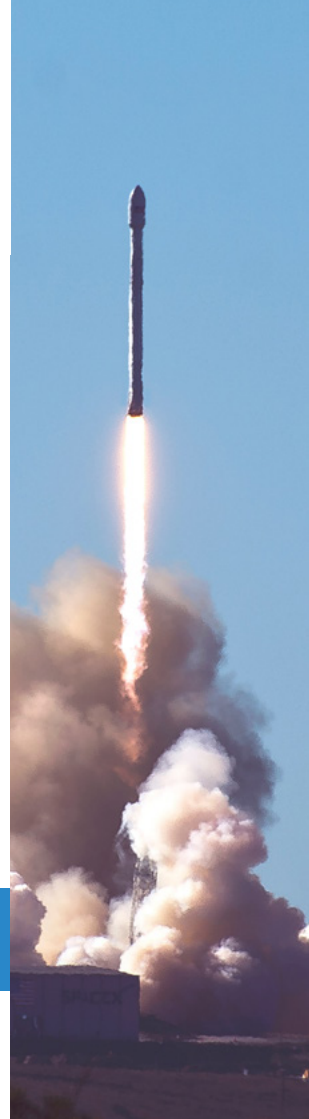
Surrey Satellite Technology Ltd  
[www.sstl.co.uk](http://www.sstl.co.uk)

## Level

Masters degree or PhD

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# 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](http://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

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# Astronomer

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](http://www.surrey.ac.uk/astrophysics-research-group)

## Level

Masters degree

or PhD

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# 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](http://www.npl.co.uk)

## Level

Apprenticeship  
(Assistant research scientist)

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# 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](http://www.awe.co.uk)

## Level

Apprenticeship

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# 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](http://www.royalmarsden.nhs.uk)

## Level

Undergraduate degree

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