Audiologist

Audiologists are health-care professionals who are specialists in human hearing. They work with patients from newborn babies to the elderly, who have hearing, balance or other ear-related problems. They will typically work in health care venues like hospitals or referral units. Audiologists are **observant**, **communicative** and **patient**.

**Science to Know**
Wave Properties, Sound, Pressure

**Employer**
Freeman Hospital
www.newcastle-hospitals.org.uk

**Level**
Undergraduate degree

Needs Physics | Physics is useful | Transferable skills from Physics

For more information about Careers in STEM visit: nustem.uk/careers
Animator

Animators bring drawings and computer generated characters to life on screen. They can specialise in areas such as games design and visual effects. They often work as part of a team and may use both software and hand drawn techniques to create characters and scenes. Animators are creative, imaginative and collaborative.

Science to Know
Light, Wave Properties, Gravity

Employer
Oak Moon Games
oakmoongames.com

Level
Undergraduate degree

Needs Physics | Physics is useful | Transferable skills from Physics

For more information about Careers in STEM visit: nustem.uk/careers
Biophysicist

Biophysicists use physics and biology to study living organisms. They collect, analyse and interpret data about cells and organisms, trying to understand how they move and signal each other. Some biophysicists work with mathematical models, others develop imaging equipment or biomaterials. Biophysicists are logical, imaginative and curious.

Science to Know
Cells, Elements, Movement

Employer
GlaxoSmithKlein
uk.gsk.com

Level
Undergraduate or Masters degree

Needs Physics | Physics is useful | Transferable skills from Physics

For more information about Careers in STEM visit: nustem.uk/careers
Civil Engineer

Civil Engineers are involved in the design, development and construction of projects in the built and natural environment: from concert halls to motorways. They are responsible for ensuring projects are completed safely and on time. Civil Engineers are open-minded, resilient and collaborative.

Science to Know
Gravity, Contact Forces, Elements

Employer
Arup
arup.com

Level
Undergraduate or Masters degree

Needs Physics | Physics is useful | Transferable skills from Physics

For more information about Careers in STEM visit: nustem.uk/careers
Careers in STEM

For more information about Careers in STEM visit: nustem.uk/careers
Electrician

Electricians are responsible for fitting, servicing and repairing equipment in our homes and other venues. They will also install communications, lighting and control systems. Electricians can be self-employed or work for companies contracted to take on larger projects. They are observant, self-motivated and hard-working.

Science to Know
Voltage and Resistance, Current, Energy Transfers

Employer
AIO Electrical
aioelectrical.co.uk

Level
A-Levels or BTECs

Needs Physics | Physics is useful | Transferable skills from Physics
Lighting Technician

Lighting Technicians set up and operate the lighting equipment used in television, film, concerts and events. They will work at indoors and outdoors venues. Some will specialise in areas such as pyrotechnics. Lighting Technicians are patient, tenacious and collaborative.

Science to Know
Light, Energy Transfers, Energy Costs

Employer
Newcastle Theatre Royal
threateroyal.co.uk

Level
Apprenticeship

Needs Physics | Physics is useful | Transferable skills from Physics

For more information about Careers in STEM visit: nustem.uk/careers
Architectural Technologist

Architectural Technologists work closely with architects, designing blueprints and overseeing projects from start to finish. They will often liaise with clients and the construction team to ensure projects get finished on time and within budget. Architectural Technologists are organised, creative and logical.

Science to Know
Gravity, Energy Transfers, Light

Employer
GT3 Architects
gt3architects.com

Level
Undergraduate degree

Needs Physics | Physics is useful | Transferable skills from Physics

For more information about Careers in STEM visit: nustem.uk/careers
Pilot

Pilots are responsible for flying passengers and cargo safely. Their job comes with a large number of responsibilities including pre-flight checks, interpreting the onboard instruments and calculating the amount of fuel for the aircraft. Pilots are **communicative, resilient** and **logical**.

**Science to Know**
Gravity, Speed, Pressure

**Employer**
Jet2
[jet2.com](http://jet2.com)

**Level**
A-Levels or BTECs

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

For more information about Careers in STEM visit: [nustem.uk/careers](http://nustem.uk/careers)
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. Therapeutic radiographers plan and give treatment to patients using radioactive sources. Radiographers are observant, communicative and organised.

Science to Know
Magnetism, Wave Properties, Elements

Employer
Freeman Hospital
www.newcastle-hospitals.org.uk

Level
Undergraduate degree

Needs Physics | Physics is useful | Transferable skills from Physics
Careers in STEM

For more information about Careers in STEM visit: nustem.uk/careers
Telecommunications Engineer

Telecommunications Engineers work on satellite, digital TV and fibre optics systems and install broadband, mobile and landline phone networks. They also test underground and underfloor cabling, finding and fixing faults. Telecommunications Engineers are open-minded, self-motivated and observant.

Science to Know
Light, Wave Properties, Energy Transfers

Employer
BT
btplc.com

Level
Apprenticeship

Needs Physics | Physics is useful | Transferable skills from Physics

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Careers in STEM

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Northumbria University
NEWCASTLE

nustem
Offshore Engineer

Offshore Engineers design, construct, operate and maintain offshore wind turbines and rigs. They are very safety-conscious because of the hazardous conditions of some of the projects and needs to remain calm under stressful situations. Offshore Engineers are patient, resilient and tenacious.

Science to Know
Earth Structure, Gravity, Contact Forces

Employer
Ore Catapult
ore.catapult.org.uk

Level
Undergraduate or Masters degree

Needs Physics | Physics is useful | Transferable skills from Physics
Careers in STEM

For more information about Careers in STEM visit: nustem.uk/careers
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.

Science to Know
Particle Model, Periodic Table, Wave Properties

Employer
EDF - Hartlepool power station
edfenergy.com/energy/power-stations/hartlepool

Level
Masters degree or PhD

Needs Physics | Physics is useful | Transferable skills from Physics

For more information about Careers in STEM visit: nustem.uk/careers
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**.

**Science to Know**
Wave Properties, Type of Reactions, Digestion

**Employer**
2 Sisters Food Group
www.2sfg.com

**Level**
Undergraduate degree

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

For more information about Careers in STEM visit: nustem.uk/careers
Careers in STEM

For more information about Careers in STEM visit: nustem.uk/careers
Water Testing Analyst

Water Testing Analysts are responsible for safeguarding water quality. They take water samples, carry out laboratory analysis of the samples, and analyse the data. In addition they will visit sites of concern and share their findings with businesses and the public. Water Testing Analysts are hard-working, observant and organised.

Science to Know
Elements, Pressure, Type of Reactions

Employer
Northumbrian Water
nwl.co.uk

Level
Undergraduate degree

Needs Physics | Physics is useful | Transferable skills from Physics

For more information about Careers in STEM visit: nustem.uk/careers
Geophysicist

Geophysicists study the physical structure and movement of land. They often create very precise maps of areas, which can be used to extract mineral resources or to preserve local ecosystems. Geophysicists are communicative, observant and passionate.

Science to Know
Earth Structure, Earth Resources, Gravity

Employer
DownUnder GeoSolutions
dug.com

Needs Physics | Physics is useful | Transferable skills from Physics

Level
Undergraduate or Masters degree

For more information about Careers in STEM visit: nustem.uk/careers
Environmental Planner

Environmental Planners advise on, and develop, plans for land use in urban and rural areas. They often design maps using computer programs for different projects in industrial development, heritage and tourism. Environmental Planners are **passionate, open-minded** and **communicative**.

**Science to Know**
Earth Structure, Earth Resources, Gravity

**Employer**
Environment Agency
environment-agency.gov.uk

**Level**
Undergraduate or Masters degree

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

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Careers in STEM

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