



Careers  
in **STEM**

# Acoustic Engineer

Acoustic Engineers design and develop solutions to sound related problems. They often measure noise levels and design that reduce the noise levels of different environments, such as in buildings or from roads. Some work closely with architects, others with broadcasters in studios. Acoustic Engineers also produce reports sharing their findings and making recommendations for action. They are **collaborative**, **observant** and **communicative**.

## Maths to know

Measurements | Graphs & handling data | Estimation & rounding

## Employer

Apex Acoustics  
[www.apexacoustics.co.uk](http://www.apexacoustics.co.uk)

## Level

Undergraduate degree or Apprenticeship

## Maths careers in

Business & Money | Entertainment | Environment | Health & Society | **Science & Engineering** | Sport



Northumbria  
University  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---

# Actuary

Actuaries use mathematical evidence to predict possible outcomes for future events. They typically work for governments and banking, healthcare or pension companies. Actuaries explain their findings to others and help them understand how risky or costly a situation might be. Actuaries are **logical**, **communicative** and **observant**.

## Maths to know

Graphs & handling data | Probability | Estimation & rounding

## Employer

AON

[www.aon.com](http://www.aon.com)

## Level

Undergraduate degree

## Maths careers in

**Business & Money** | Entertainment | Environment | Health & Society | Science & Engineering | Sport



Northumbria  
University  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---

# Agronomist

Agronomists investigate ways to improve soils and to increase the production of food from crops. They often work outdoors trying to solve any problems that arise with crops. Agronomists also ensure that farmers comply with agricultural laws and look after the environment. Agronomists are **observant**, **curious** and **organised**.

## Maths to know

Measurements | Geometry (properties of shapes) | Estimation & rounding

## Employer

Bartholomews  
[www.bartholomews.co.uk](http://www.bartholomews.co.uk)

## Level

Undergraduate degree

## Maths careers in

Business & Money | Entertainment | **Environment** | Health & Society | Science & Engineering | Sport



Northumbria  
University  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---



# Air Traffic Controller

Careers  
in **STEM**

Air Traffic Controllers work with pilots to ensure that aircrafts take off and land safely, and are on time. They are mostly based in airport towers, giving information and advice to pilots and others teams around the airport. Air Traffic Controllers also ensuring safe distances between aircrafts once airborne. Air traffic controllers are **logical, communicative & patient**.

## Maths to know

Units of space, time & money | Geometry (position & direction) | Estimation & rounding

## Employer

Newcastle International Airport  
[www.newcastleairport.com](http://www.newcastleairport.com)

## Level

Apprenticeship

## Maths careers in

Business & Money | Entertainment | Environment | Health & Society | **Science & Engineering** | Sport



**Northumbria**  
**University**  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---





# Visual Effects Artist

Visual Effects (VFX) Artists are responsible for the look of computer-generated objects and creatures. They work out how light, colours, textures and forms work together to ensure the quality of visual effects. They are also good at sharing ideas with other teams at work and responding to feedback. VFX Artists are **creative, imaginative** and **collaborative**.

## Maths to know

Geometry (properties of shapes) | Geometry (position & direction) | Graphs & handling data

## Employer

Ubisoft Reflections  
[www.reflections.ubisoft.com](http://www.reflections.ubisoft.com)

## Level

Undergraduate degree

## Maths careers in

Business & Money | **Entertainment** | Environment | Health & Society | Science & Engineering | Sport



**Northumbria**  
**University**  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---

# Cost Estimator

Cost Estimators predict how much money, resource and labour are needed to manufacture a product, or provide a service. They usually work for engineering, manufacturing or construction companies keeping track of budgets. Cost Estimators are also responsible for collecting quotes and negotiating the best deals for their clients. Cost Estimators are **observant**, **resilient** and **organised**.

## Maths to know

Algebra | Units of space, time & money | Estimation & rounding

## Employer

CCN

[www.ccn-uk.com](http://www.ccn-uk.com)

## Level

Apprenticeship

## Maths careers in

**Business & Money** | Entertainment | Environment | Health & Society | Science & Engineering | Sport



Northumbria  
University  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---



# Sports Scientist

Sports Scientists use their knowledge of the human body works to help people improve their health or sporting skills. Some work with healthcare professionals to help people recover from exercise injuries, others work alongside sport coaches to improve the performance of athletes. Sport Scientists are **observant**, **tenacious** and **patient**.

## Maths to know

Measurements | Geometry (position & direction) | Graphs & handling data

## Employer

Playermaker  
[www.playermaker.com](http://www.playermaker.com)

## Level

Undergraduate degree

## Maths careers in

Business & Money | Entertainment | Environment | Health & Society | Science & Engineering | **Sport**



Northumbria  
University  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---

# Nurse

Nurses care for people who are unwell. They often work with other healthcare professionals. Nurses must ensure that patients are given the correct dose of medicine, and calculate the flow-rate for medicines given using an intravenous (IV) drip. Nurses are **communicative, patient** and **resilient**.

## Maths to know

Ratios & proportions | Measurements | Units of space, time & money

## Employer

RVI

[www.newcastle-hospitals.org.uk](http://www.newcastle-hospitals.org.uk)

## Level

Undergraduate degree

## Maths careers in

Business & Money | Entertainment | Environment | **Health & Society** | Science & Engineering | Sport



Northumbria  
University  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---



# Firefighter

Firefighters help to protect people, the environment and buildings from fire and other types of accidents and emergencies. They work closely with local communities giving advice on fire prevention. Firefighters need to calculate water pressure in hoses to ensure that they can be used effectively to put out fires. Firefighters are **patient**, **tenacious** and **observant**.

## Maths to know

Geometry (position & direction) | Measurements | Estimation & rounding

## Employer

Tyne & Wear Fire and Rescue Services  
[www.twfire.gov.uk](http://www.twfire.gov.uk)

## Level

Apprenticeship

## Maths careers in

Business & Money | Entertainment | Environment | **Health & Society** | Science & Engineering | Sport



Northumbria  
University  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---

# Epidemiologist

Epidemiologists study health and disease in large populations. Some use computer models to understand the spread of illnesses across populations. Others work with individual patients to study how diseases develop and transmit. Epidemiologists inform governments and public health organisations and suggest ways to prevent the spread of diseases. Epidemiologists are **logical, imaginative** and **organised**.

## Maths to know

Graphs & handling data | Patterns & sequences | Probability

## Employer

NHS

[www.healthcareers.nhs.uk](http://www.healthcareers.nhs.uk)

## Level

Masters or PhD degree

## Maths careers in

Business & Money | Entertainment | Environment | **Health & Society** | Science & Engineering | Sport



**Northumbria**  
**University**  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---

# Chef

Chefs prepare, cook and present food in a variety of settings: from hospitals and hotels to restaurants. Some chefs manage a team, others work for themselves doing pop-up events and some may do product development for supermarkets. Chefs must ensure that they buy enough ingredients, and may also have to manage the finances of their business. Chefs are **observant**, **collaborative** and **creative**.

## Maths to know

Ratios & proportions | Measurements | Estimation & rounding

## Employer

The Beehive  
[www.beehiveearsdon.co.uk](http://www.beehiveearsdon.co.uk)

## Level

Apprenticeship or A-Levels

## Maths careers in

Business & Money | **Entertainment** | Environment | Health & Society | Science & Engineering | Sport



Northumbria  
University  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---

# Pharmacist

Pharmacists understand the effects medicines have on the human body. Some Pharmacists work in hospitals advising other healthcare professionals on how to choose medicines and use them correctly. Others work in pharmacies where they offer health advice to patients, check prescriptions for errors and ensure medicines are appropriate and safe for the individual patients. Pharmacists are **logical**, **collaborative** and **communicators**.

## Maths to know

Ratios & proportions | Measurements | Units of space, time & money

## Employer

Lloyds Pharmacy  
[www.lloydspharmacy.com](http://www.lloydspharmacy.com)

## Level

Masters degree

## Maths careers in

Business & Money | Entertainment | Environment | **Health & Society** | Science & Engineering | Sport



Northumbria  
University  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---



# Prosthetists

Prosthetists assess, diagnose and support people who need prosthetics to replace a missing limb. They often work in rehabilitation centres or hospital clinics and must ensure that the limb is the correct size and shape for each patient. Prosthetists are **observant**, **open-minded** and **creative**.

## Maths to know

Measurements | Geometry (properties of shapes) | Geometry (position & direction)

## Employer

Royal Army  
[www.army.mod.uk](http://www.army.mod.uk)

## Level

Undergraduate degree or Apprenticeship

## Maths careers in

Business & Money | Entertainment | Environment | Health & Society | **Science & Engineering** | Sport



Northumbria  
University  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---

# Ecologist

Ecologists study the relationship between people, plants, animals and the environment. They often carry out fieldwork and use surveys to record information on species habitats. Ecologists build computer models to understand how species are impacting on their environments. Some Ecologists study the impact of human activity, such as climate change, on the environment. Ecologists are **collaborative, organised** and **resilient**.

## Maths to know

Graphs & handling data | Measurements | Probability

## Employer

Environment Agency  
[www.environment-agency.gov.uk](http://www.environment-agency.gov.uk)

## Level

Undergraduate degree

## Maths careers in

Business & Money | Entertainment | **Environment** | Health & Society | Science & Engineering | Sport





---

---

---

---



Careers  
in **STEM**

# Cyber Security Analyst

Cyber Security Analysts help to protect people and organisations from cyber threats. They gather information about where recent cyber security threats originate and how they can be prevented. Cyber Security Analysts help design new security systems or upgrade existing ones. They also give advice and guidance to people on how to stay safe online. Cyber Security Analysts are **passionate**, **collaborative** and **patient**.

## Maths to know

Graphs & Handling data | Patterns & Sequences | Statistics

## Employer

Virgin Money  
[uk.virginmoney.com](http://uk.virginmoney.com)

## Level

Undergraduate degree or Apprenticeship

## Maths careers in

Business & Money | Entertainment | Environment | Health & Society | **Science & Engineering** | Sport



**Northumbria**  
**University**  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---



# Marine Engineer

Careers  
in **STEM**

Marine Engineers are involved in designing, building, testing, maintaining and repairing boats, ships and submarines. Marine Engineers may also work in areas such as marine surveying, undersea drilling, and in the building of offshore platforms. They are **passionate**, **imaginative** and **open-minded**.

## Maths to know

Algebra | Geometry (position & direction) | Measurements

## Employer

Royal Navy  
[www.royalnavy.mod.uk](http://www.royalnavy.mod.uk)

## Level

Undergraduate degree or Apprenticeship

## Maths careers in

Business & Money | Entertainment | Environment | Health & Society | **Science & Engineering** | Sport



**Northumbria**  
**University**  
NEWCASTLE

**nustem**

For more information about Careers in **STEM**  
scan QR code or visit: [nustem.uk/careers](http://nustem.uk/careers)





---

---

---

---