Physics teaches you about matter and energy – the basis of all scientific disciplines. As well as preparing students to investigate what you see in the world around you, it also encourages you to solve problems practically and creativity.

Wind Energy Engineer

You'll develop the hardware for wind energy projects, including the turbines, blades, electrical systems, and energy production systems. The offshore wind workforce in the UK is expected to grow 2.5 times by 2030, creating an additional 16,000 jobs. The UK will need to recruit 100,000 people to green energy roles to meet its targets on limiting climate change. You'll need to think creatively about how to overcome problems connected to technology, installation, or location.

Protecting the Planet

You'll study planets and moons, including features such as gravity, geologic processes, climate geomorphology and atmosphere. The country's space sector generates £14.8 billion of income and coul create 15,000 jobs in the UK by 2030.

As planetary exploration takes off, there is a growing need for planetary scientists with the skills needed to understand other worlds. You'll analyse data to help further your understanding of a particular planet or celestial body and share your insights.

How will the most popular industries for Physics graduates change?

Science - Employers including Met Office, NHS and European Space Agency actively recruit Physicists.



'Preparing students for a lifetime of employability'

Horizon

Preparing students for a lifetime of employability careers@horizoncc.co.uk





Research

Research means collecting your own It also means reading around a subject to find information and data that could help you or support your theories. You might need to look through scientific papers or read

books about scientific discoveries.



Data Analysis

in Physics, you'll generate data. It's this information that can help you spot trends and patterns or reveal something completely new. You need to be able to analyse the data you create, otherwise it's just numbers with no clear meaning.



(C) Critical Thinking

You can't take everything at face critically about the information you're presented with to find new solutions. Being able to do this allows you to take a rational approach to problem solving. This is essential in Physics.



Communication

experiments and research. You need to be able to explain your findings to others. You'll do this through written and spoken reports. That means you need to present information in a clear



Problem Solving

Like all branches of science, Physics is experimental. You'll be encouraged to look at problems from new angles and find innovative solutions using your Physics knowledge. You'll need to gather all the relevant information to help you as you work towards a solution.

Applied Science & Technology:

- Acoustics Consultant
- Audiologist
- Agronomist Geophysicist/ Field
- Seismologist
- Geo-scientist
- Geo-technician
- Materials Scientist
- Medical Physicist
- Meteorologist
- Radiation Protection Practitioner

Scientific Research & Lab Work:

- Astronaut
- Nano-technologist
- Physicist
- Research Scientist (Physical Sciences)

Practical jobs where Science is useful:

- Electrician
- Electronics Engineering Technician
- Fingerprint Officer
- Plumber
- Sterile Services Technician
- Textile Machinery Technician
- Water Treatment Worker
- Beauty Therapist
- Hairdresser

Engineering:

- Civil Engineer
- Clinical Engineer
- Electrical Engineer
- Electronics Engineer
- Materials Engineer
- Materials Technician
- Mechanical Engineer
- Metallurgist
- Nuclear Engineer
- Structural Engineer



Construction

With almost 300.000 business trading in construction, this sector accounts for 7% of all employment in the UK. That's 2.3 million jobs.



Engineering

The proportion of young engineers has dropped over the last decade. This means there will be high demand for younger workers in the years to come!



Energy & Utilities

Today, about **500,000** people work in the energy sector. But with the demand for green energy growing, by 2020 half a million people could be working in re-newables alone.



Transport & Logistics

The UK transport industry the country. Over the next 10 vears, 100,000 new workers will be required in rail alone.



Science & Research

Between 2016 and 2023, jobs in science and research will grow at twice the rate of other industries, creating **142,000** new jobs. One and research.



IT & the Internet

People with qualifications in employment in the UK.