

**NORTH  
OF TYNE**  
REGION  
**COMBINED  
AUTHORITY**



**CATAPULT**  
Digital

North East  
Tees Valley

# PHYSICIST

**INTERESTING SCIENCE JOBS IN THE  
NORTH EAST**



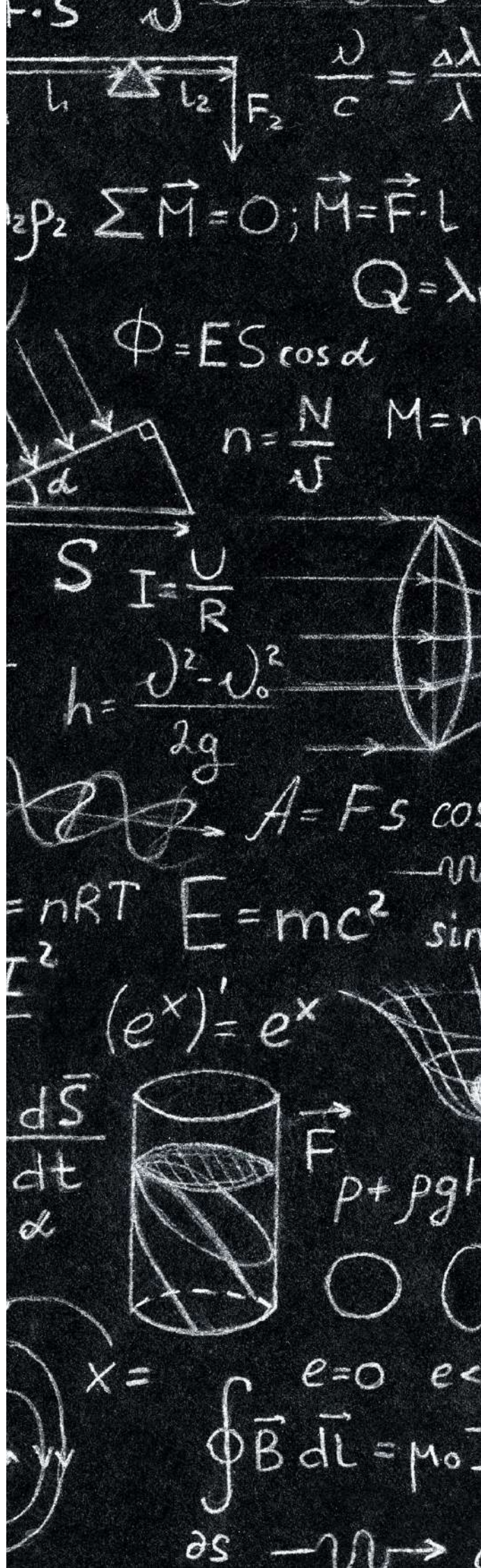
# PHYSICIST

## OVERVIEW

A physicist is someone who investigates the fundamental principles that govern the structure, behaviour and interactions between matter, energy, and the generation and transfer of energy. Physicists typically learn about their subject as a whole before specialising in a particular area: astrophysics, biophysics, nuclear physics, geophysics and thermodynamics are just a few areas of physics that you can specialise in. Becoming a physicist provides many different career prospects and opportunities in a variety of industries, some of which are excelling in the North East! Where you'll work and what tasks you'll do in your job will depend on what you specialise in, but you could find yourself working in schools, research labs, hospitals, power-plants, or even the military!

## REGIONAL PRESENCE

Industries, like energy, health and medicine, manufacturing, and education are all thriving in the North East and all need physicists of different specialities. Renewable energy is a hugely excelling industry in the region and is even home to the UK leading technology innovation and research centre for renewable energy, the ORE Catapult. From offshore wind farms to researching biological problems, there lots going of physics on in the region!





## SKILLS NEEDED

No matter what area of physics you work in, you'll need to a variety of skills including:

### **Great analytical, mathematical skills**

You'll undertake research where you need to use mathematical modelling to analyse and interpret results to find solutions to scientific problems.

### **Good communication skills**

You have to talk and write about your scientific ideas and theories, so being able to convey your ideas effectively is an advantageous skill to have.

### **Great problem solving skills**

You'll work on solving a variety of scientific problems, so having an innovative yet methodical approach to solving issues is needed!

### **Good team player**

Working as part of a team comes with the territory of being a physicist, so being an excellent team player is essential.

## EDUCATIONAL ROUTES

As a Physicist, you'll need a particular level of knowledge which can only be gained through university study. After taking science A levels, one of which should be physics and/or maths, institutes in the region like Durham and Newcastle university, have incredible degrees and research opportunities in Physics. Studying at a university in the region will give you a great start to a career in physics.

## FOR MORE INFORMATION

[info@sunderlandsoftwarecity.com](mailto:info@sunderlandsoftwarecity.com)

