

WORKING IN...



# PHYSICS

## EARTH AND SPACE

- **GEOSCIENTIST**  
Study the earth's structure and formation, and analyse rocks to explore its natural mineral and energy resources.
- **METEOROLOGIST**  
Collect and study data to make weather forecasts. Meteorologists also give weather information and reports to customers.
- **ASTRONOMER**  
Use scientific techniques to study the universe and train to fly spacecrafts.



## ENGINEERING

- **ENERGY ENGINEER**  
Work on the research, design, and construction of power generation plants.
- **NUCLEAR ENGINEER**  
Produce energy for domestic and industrial use.
- **MATERIALS ENGINEER**  
Research the behaviour of materials to help make them stronger, lighter or more durable.
- **AEROSPACE ENGINEER**  
Design, build and maintain planes, spacecraft, and satellites.



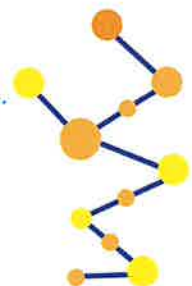
## RESEARCH

- **LABORATORY TECHNICIAN**  
Support scientists and help carry out tests, research, and investigations.
- **CLIMATE CHANGE ANALYST**  
Research and analyse policy developments related to climate change.
- **PHYSICIST**  
Study the natural universe and look at why objects exist and behave as they do.



## HEALTH

- **RADIOLOGIST**  
Interpret diagnostic images such as X-rays, MRI and CT scans, and provide written reports of your examination.
- **CLINICAL SCIENTIST**  
Research, develop and test methods of diagnosis.
- **NANOTECHNOLOGIST**  
Design and build devices and materials on a tiny scale for medicine and pharmaceuticals.



## SKILLS REQUIRED

- an inquisitive mind
- methodical approach to work
- data-analysis skills
- logical and clear thinking
- attention to detail

## SALARY

### Physical scientists

UK annual median: £41,505

### Natural and social science professionals:

London annual median: £38,644

Top 3 regions: South East (£39,720), London (£38,644), East Midlands (£37,751)

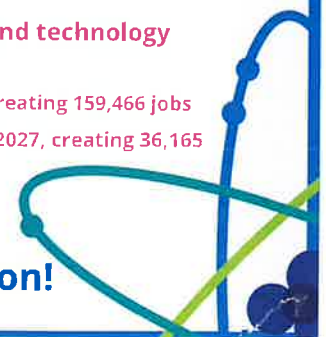
## PROSPECTS

### Science, research, engineering, and technology professionals:

UK growth: +9.1% from 2017 to 2027, creating 159,466 jobs

London growth: +11.2% from 2017 to 2027, creating 36,165 jobs

Visit Unifrog's Careers library for more information!

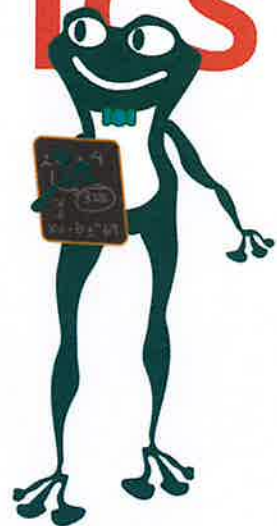


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# MATHEMATICS

## RESEARCH AND EDUCATION

- **MATHEMATICIAN**  
Understand and further develop mathematical theories, analyse data, and solve problems.
- **ECONOMIST**  
Advise government departments, companies, banks, other organisations and the general public about the economy.
- **TEACHER**  
Educate young people at school or university.



## FINANCE

- **ACTUARY**  
Work with companies and government departments, to help them forecast long-term financial costs and investment risks.
- **INVESTMENT BANKER**  
Help companies to raise capital.
- **ACCOUNTING TECHNICIAN**  
Handle day-to-day financial matters in all types of business.
- **FINANCIAL ADVISER**  
Help people and organisations to choose investments, savings, pensions, mortgages or insurance products.



## COMPUTERS

- **NETWORK ENGINEER**  
Design and develop computer networks.
- **SOFTWARE DEVELOPER**  
Design, build and test computer programmes for business, education and leisure activities.
- **DATABASE ADMINISTRATOR**  
Responsible for data, its availability, security, and accessibility.



## DATA

- **DATA ANALYST**  
Identify trends, create models, collect numerical information, and present results.
- **DATABASE ADMINISTRATOR**  
Responsible for data, its availability, security, and accessibility.
- **BIostatistician**  
Develop and apply statistical theory and methods to the study of life sciences.



## SKILLS REQUIRED

- ability to interpret data
- passion for numbers
- attention to detail
- problem-solving skills
- theoretical thinking

## SALARY

Finance and investment analysts and advisers:  
UK annual median: £37,180

Business and finance associate professionals:  
London annual median: £44,644  
Top 3 regions: London (£44,644), South East (£35,534), East of England (£33,420)

## PROSPECTS

Business and public service associate professionals:

UK growth: +11.8% from 2017 to 2027, creating 219,107 jobs

London growth: +10.3% from 2017 to 2027, creating 59,056 jobs

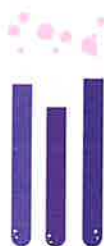
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# ENGINEERING

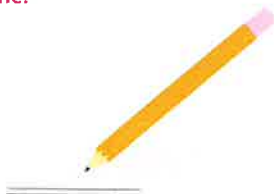
## CHEMICAL ENGINEERING

- **ENERGY ENGINEER**  
Work on the research, design, and construction of power generation plants, and may be involved in drilling for gas and oil.
- **MATERIALS ENGINEER**  
Research the behaviour of materials used in industry to help make them stronger, lighter or more durable.
- **CHEMICAL ENGINEER**  
Develop ways to turn raw materials into everyday products.



## CIVIL ENGINEERING

- **HYDROLOGIST**  
Research the distribution, circulation, and physical properties of underground and surface waters.
- **CIVIL ENGINEER**  
Design and manage construction projects, from bridges and buildings to transport links and sports stadiums.
- **ENVIRONMENTAL ENGINEER**  
Minimise pollution in order to protect the environment.
- **CONSTRUCTION MANAGER**  
Responsible for the success of building projects, making sure that the work is completed safely, within budget and on time.



## MECHANICAL ENGINEERING

- **MOTORSPORT ENGINEER**  
Design, develop, test and build cars and motorbikes.
- **MECHANICAL ENGINEER**  
Develop and design the components and machinery used in manufacturing, construction, water, power, health, and transport.
- **RAILWAY ENGINEER**  
Install railways and service mechanical and electrical systems on trains.



## ELECTRICAL ENGINEERING

- **ELECTRICITY DISTRIBUTION WORKER**  
Maintain and repair the power lines that connect homes and businesses to the national grid.
- **AEROSPACE ENGINEER**  
Design, build and maintain planes, spacecraft and satellites.
- **ELECTRONICS ENGINEER**  
Design and develop systems for industry, from mobile communications to manufacturing aerospace.



## SKILLS REQUIRED

- team working
- analytical skills
- problem-solving
- maths skills
- management skills

## SALARY

Civil, chemical, mechanical, and electrical  
UK annual median: £41,505 – £50,866

Engineering professionals:

London annual median: £47,194

Top 3 regions: Scotland (£46,913), London (£47,194), East Midlands (£45,690)

## PROSPECTS

Science, research, engineering, and technology professionals:

UK growth: +9.1% from 2017 to 2027, creating 159,466 jobs

London growth: +11.2% from 2017 to 2027, creating 36,165

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# CHEMISTRY

## ENGINEERING

- **CHEMICAL ENGINEER**  
Develop ways to turn raw materials into everyday products.
- **NUCLEAR ENGINEER**  
Responsible for the safe running of nuclear power stations.
- **ENVIRONMENTAL ENGINEER**  
Minimise pollution in order to protect the environment.

## HEALTH

- **PHARMACOLOGIST**  
Study the effects of drugs and other chemical substances on cells, animals, humans and the environment.
- **PHARMACIST**  
Provide expert advice on the use and supply of medicines and medical appliances.
- **GENERAL PRACTICE DOCTOR**  
Provide medical services to people in the community.
- **ANAESTHETIST**  
Provide anaesthetics to patients before, during, and after surgery.



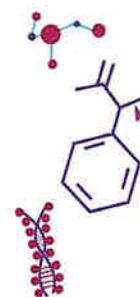
## ENVIRONMENT

- **CONSERVATION SCIENTIST**  
Manage, improve, and protect natural resources to maximize their use without damaging the environment.
- **PEST CONTROL TECHNICIAN**  
Identify and get rid of pests like rats, mice, and cockroaches.
- **ECOLOGIST**  
Study the relationship between plants, animals and the environment.



## SCIENCE

- **CHEMIST**  
Study chemicals and materials and how they behave under different conditions.
- **CLINICAL SCIENTIST**  
Research, develop, and test methods of diagnosis. Clinical scientists interpret test results and suggest treatments to doctors.
- **LABORATORY TECHNICIAN**  
Support scientists and help carry out tests, research, and investigations.



## SKILLS REQUIRED

- great numerical skills
- complex-problem solving
- attention to detail
- ability to analyse data
- strong decision making

## SALARY

**Chemical scientists:**

UK annual median: £32,540

**Natural and social science professionals:**

London annual median: £38,644

Top 3 regions: South East (£39,720), London (£38,644), East Midlands (£37,751)

## PROSPECTS

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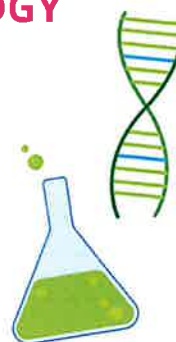
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# BIOLOGY



## LABS AND TECHNOLOGY

- **BIOTECHNOLOGIST**  
Use biological organisms to make products designed to improve health, food, and the environment.
- **RADIOGRAPHER**  
Perform X-rays, MRI scans, and CT scans. Help to look after patients who are having an interventional procedure.
- **MICROBIOLOGIST**  
Study microbes to find out how they affect our lives and how we can use them.



## HEALTH

- **DENTIST**  
Diagnose and treat teeth and mouth problems, and work to prevent dental disease and promote oral health.
- **HOSPITAL DOCTOR**  
Diagnose and treat illness and disease in patients admitted to hospital.
- **CLINICAL SCIENTIST**  
Research, develop, and test methods of diagnosis and treatment.
- **HEALTHCARE PROMOTION SPECIALIST**  
Work with organisations, schools, and hospitals to educate and inform communities about health issues.



## ANIMALS

- **ANIMAL PHYSIOTHERAPIST**  
Restore and maintain animal mobility, independence, and performance.
- **ZOOLOGIST**  
Study the behaviour, evolution, and anatomy of animals.
- **VETERINARIAN**  
Diagnose and treat sick or injured animals.



## PLANTS AND THE ENVIRONMENT

- **CLIMATE CHANGE ANALYST**  
Research and analyse policy developments related to climate change. Make climate-related recommendations for actions such as legislation, awareness campaigns, or fundraising approaches.
- **MARINE BIOLOGIST**  
Study and research the ocean and aquatic life. Care for sick sea creatures and marine life.
- **ECOLOGIST**  
Study the relationship between plants, animals, and the environment.



## SKILLS REQUIRED

- practical scientific skills
- accuracy and attention to detail
- data analysis skills
- problem-solving skills
- excellent communication skills

## SALARY

**Biological scientists and biochemists:**  
UK annual median: £37,379

**Natural and social science professionals:**  
London annual median: £38,644  
Top 3 regions: South East (£39,720), London (£38,644), East Midlands (£37,751)

## PROSPECTS

**Science, research, engineering, and technology professionals:**

UK growth: +9.1% from 2017 to 2027, creating 159,466 jobs  
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# DESIGN AND TECHNOLOGY

## PRODUCT DESIGN

- **PRODUCT DESIGNER**  
Create new products, improve existing ones, and investigate how existing products work.
- **FURNITURE DESIGNER**  
Produce designs for mass-produced furniture, furniture made in small batches or unique pieces.
- **INDUSTRIAL DESIGNER**  
Research and develop ideas for new products and the systems used to make them.



## INTERIOR DESIGN

- **INTERIOR DESIGNER**  
Plan and supervise the design and decoration of the inside of buildings.
- **SET DESIGNER**  
Design and create the setting for a television, theatre or film production.
- **EXHIBITION DESIGNER**  
Work with organisations and individuals to turn their ideas into engaging displays.
- **CARPENTER**  
Make and install wooden structures, fittings and furniture.



## GRAPHIC DESIGN AND TECHNOLOGY

- **GRAPHIC DESIGNER**  
Create visual branding, adverts, brochures, magazines, website designs, product packaging, and displays.
- **WEB DESIGNER**  
Use their creative and technical skills to design new websites and redesign existing ones.
- **ANIMATOR**  
Bring drawings and computer generated characters to life on screen.



## FASHION

- **FASHION DESIGNER**  
Design clothing and fashion ranges, analysing or predicting trends in fabrics, colours, and shapes.
- **COSTUME DESIGNER**  
Responsible for the overall look of the clothes and costumes in theatre, film, or television productions.
- **FOOTWEAR DESIGNER**  
Create new designs and sample patterns for men's, women's, and children's footwear.



## SKILLS REQUIRED

- attention to detail
- creativity
- drawing skills
- problem solving
- good research skills

## SALARY

**Graphic designers:**

UK annual median: £29,391

**Design occupations:**

London annual median: £33,250

Top 3 regions: London (£33,250), South East (£31,557), East of England (£31,165)

## PROSPECTS

**Culture, media, and sports occupations:**

UK growth: +6.2% from 2017 to 2027, creating 52,227 jobs

London growth: +5.3% from 2017 to 2027, creating 14,065 jobs

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# MUSIC



## MUSIC ANALYSIS

- **MUSIC CONDUCTOR**  
Direct and conduct instrumental or vocal performances by musical groups, such as orchestras or choirs.
- **MUSIC COMPOSER AND ARRANGER**  
Write and transcribe musical scores. Guide musicians during rehearsals, performances, or recording sessions.
- **ACOUSTIC CONSULTANT**  
Help manage and control noise and vibrations in homes, workplaces, and other environments.



## ENTERTAINMENT

- **SINGER**  
Sing songs on stage, radio, television, or motion pictures.
- **SESSION MUSICIAN**  
Performs a backing track for another musician, while performing onstage or recording in studio.
- **CLASSICAL MUSICIAN**  
Perform classical music in concert, or on film, TV, or radio recordings.
- **ENTERTAINMENT AGENT**  
Promote and manage the business affairs of performers and other professionals in the entertainment industry.



## TECHNOLOGY

- **STUDIO SOUND ENGINEER**  
Work in studios and make recordings of music, speech, and sound effects.
- **LIVE SOUND ENGINEER**  
Control the sound at events like theatre performances, music concerts, and festivals.
- **SOUND TECHNICIAN (TV OR FILM)**  
Responsible for recording the voices and background noise on TV and film shoots.



## EDUCATION

- **SINGING TEACHER**  
Teach vocal skills, singing, music theory, and musical appreciation to individuals and groups.
- **MUSIC TEACHER**  
Give music lessons to people of all ages and abilities.
- **MUSIC THERAPIST**  
Use music and sound to help improve people's emotional well being, relieve stress, and improve confidence.



## SKILLS REQUIRED

- musical ability
- independence
- listening skills
- dedication and motivation
- perserverance

## SALARY

Artistic, literary, and media occupations:  
UK annual median: £35,857

Artistic, literary and media occupations:  
London annual median: £34,355  
Top 3 regions: London (£34,355), Isle of Man (£33,048),  
North West (£33,048)

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