

A FUTURE IN CHEMISTRY

MAKING THE DIFFERENCE

? What science career is helping to change people's lives in this photo?



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A Radiographers

Often people can look well on the outside, but under the surface they show the symptoms of serious illnesses.

Radiographers play a vital role in diagnosing illnesses and diseases, working closely with doctors, nurses and other healthcare professionals.

They take high quality images of inside of the body using state-of-the-art technologies and then use their knowledge of science and medicine to help doctors diagnose injury and disease. It is a perfect job for someone who loves biology, technology and wants to help other people.

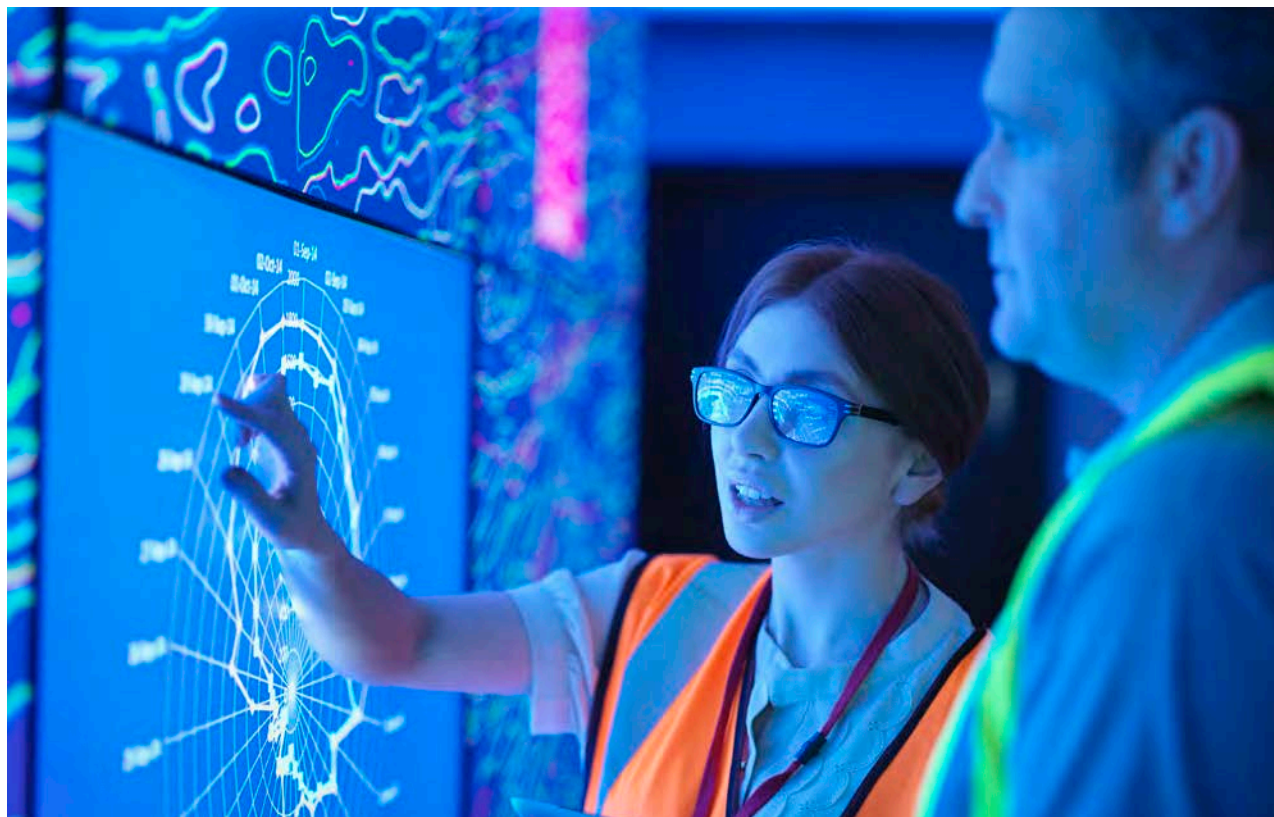
Find out more

For more information go to <https://nationalcareers.service.gov.uk/job-profiles/radiographer>

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? Chemists challenge opinions and innovate industry. What are they doing here?

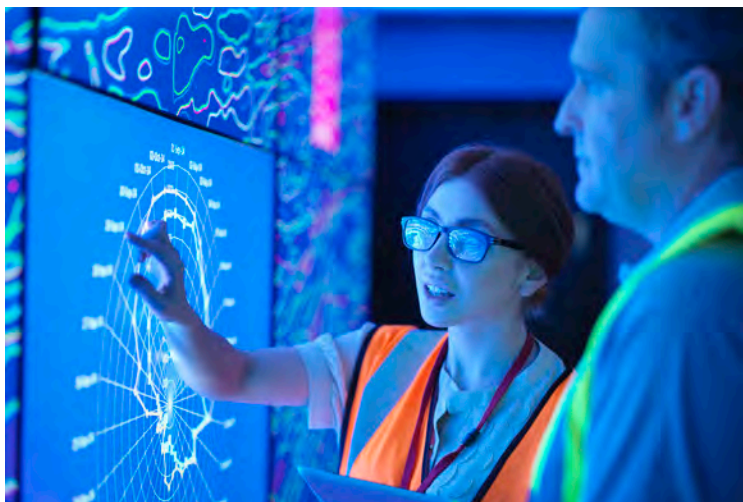


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A Geoscientist

They say only foolish people build a house on sand.

As a geoscientist you can help make sure this never happens! It is your job to help us better understand what is going on under the surface of the earth.

Geoscientists work in many industries. For example, they help engineering companies to undertake major projects like building tunnels and bridges by advising on the characteristics of the soil and rocks and potential risks which may stop projects being successful.

Find out more

For more information go to <https://nationalcareers.service.gov.uk/job-profiles/geoscientist>

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? How is this chemical scientist innovating industry?



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Aerospace engineer

Ever fancied a career which is out-of-this-world?

Aerospace engineers work with cutting edge technology to research, design, develop, maintain and test the performance of aircraft of all kinds. They can work on passenger and military aircraft but also satellites and spacecraft. Maybe one day soon spacecraft will fly passengers rapidly from one big city to another, and you will have made that happen!

Find out more

For more information go to <https://nationalcareers.service.gov.uk/job-profiles/aerospace-engineer>

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? What career that uses chemistry could be linked to this photo?



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Sports scientist

Ever wanted to use your science knowledge to help sports people?

Then being a sports scientist sounds ideal for you. Sports scientists work for sports clubs and teams. Using in depth knowledge of the human body and how it responds to exercise, they measure and analyse the performance of sportsmen and sportswomen and help them to improve their performance.

Find out more

For more information go to <https://edu.rsc.org/job-profiles/sports-scientist-british-olympic-association/4010823.article>

<https://nationalcareers.service.gov.uk/job-profiles/sports-scientist>

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? Chemists challenge opinions - what job are they doing in this photo?



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Art conservation and restoration

Over time works of art can get dirty, fade or be damaged. But they can be restored by art conservation and restoration experts using a mix of science and art skills. These experts can even use their skills to uncover secrets not visible to the eye and can tell if a painting is a fake. Art conservation and restoration is a great area for people who love science, history and art.

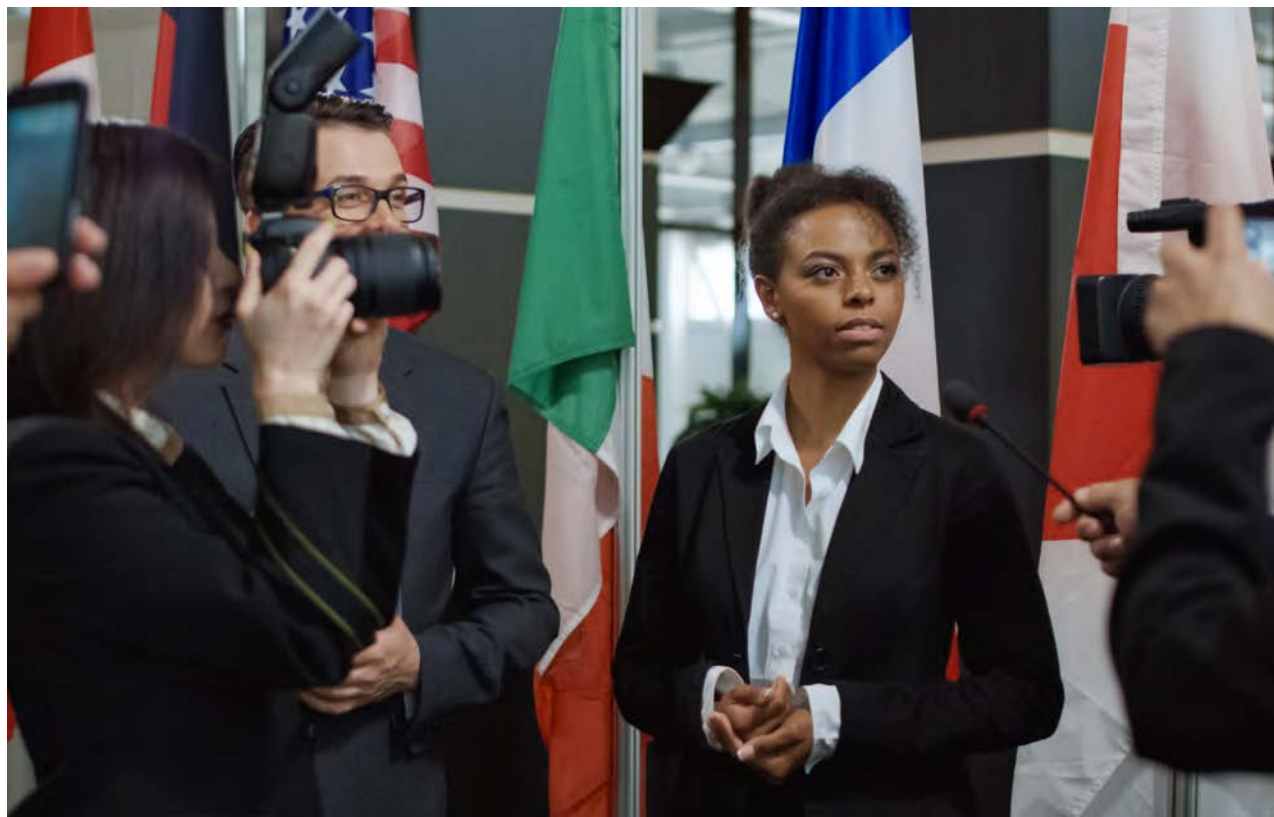
Find out more

For more information go to <https://edu.rsc.org/future-in-chemistry/4013027.article>

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? What science career helps the general public understand and appreciate life-changing discoveries?

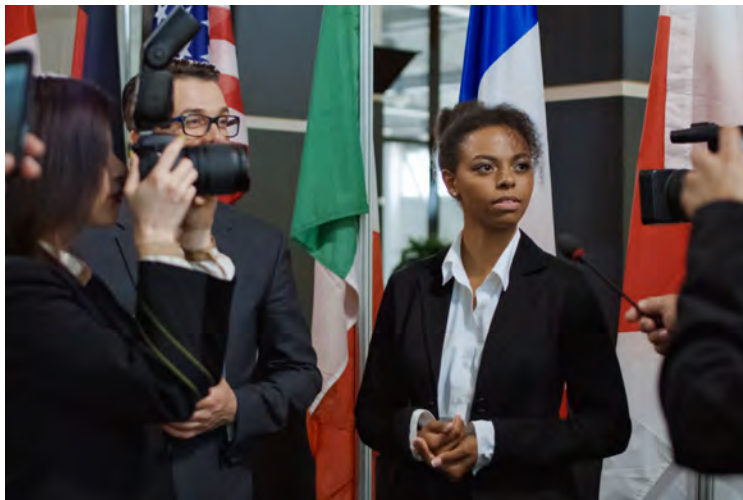


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Science communicator

Across the world scientists are making important discoveries in areas like climate change, health and renewable energy. But it can be hard for members of the public to understand why these advances are significant and how they will impact their lives. This is where science communicators come in.

Working in roles like journalist, blogger, lecturer or events manager, science communicators use their skills to make science easy to understand and accessible.

Find out more

<https://edu.rsc.org/job-profiles/science-communicator/4010947.article>

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? What job does the person in this photo have that is helping to change lives?



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Medicinal chemist

Using different chemistry techniques, primarily synthetic organic chemistry and data analysis tools, medicinal chemists design and create new molecules to be made into medicines to combat a particular disease or condition like malaria, tuberculosis or alzheimer's. They also improve existing medicines.

Find out more

Link to new profile <https://edu.rsc.org/future-in-chemistry/4013025.article>

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Bioanalytical scientist

Bioanalytical scientists develop, test, and examine biological samples, such as vaccines and new medicines. They perform experiments and analyse how potential medicines react with biological tissues to ensure they are robust and reliable before being released onto the consumer market. Their work can involve using brand new technological advances.

Find out more

<https://edu.rsc.org/job-profiles/bioanalytical-scientist/4010851.article>

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? What chemistry-using career helps protect new ideas and turn them into successful products that can make a difference to our world?



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A Patent Attorneys

Patent Attorneys help get protection and legal protection for new inventions for companies and inventors. A patent will allow them to get protection for their product and prevent others from making and selling that product for a short period of time. This career can have a real impact on bringing new inventions to market and this can be very rewarding particularly when the inventions relate to new medicines that can improve people's health and wellbeing.

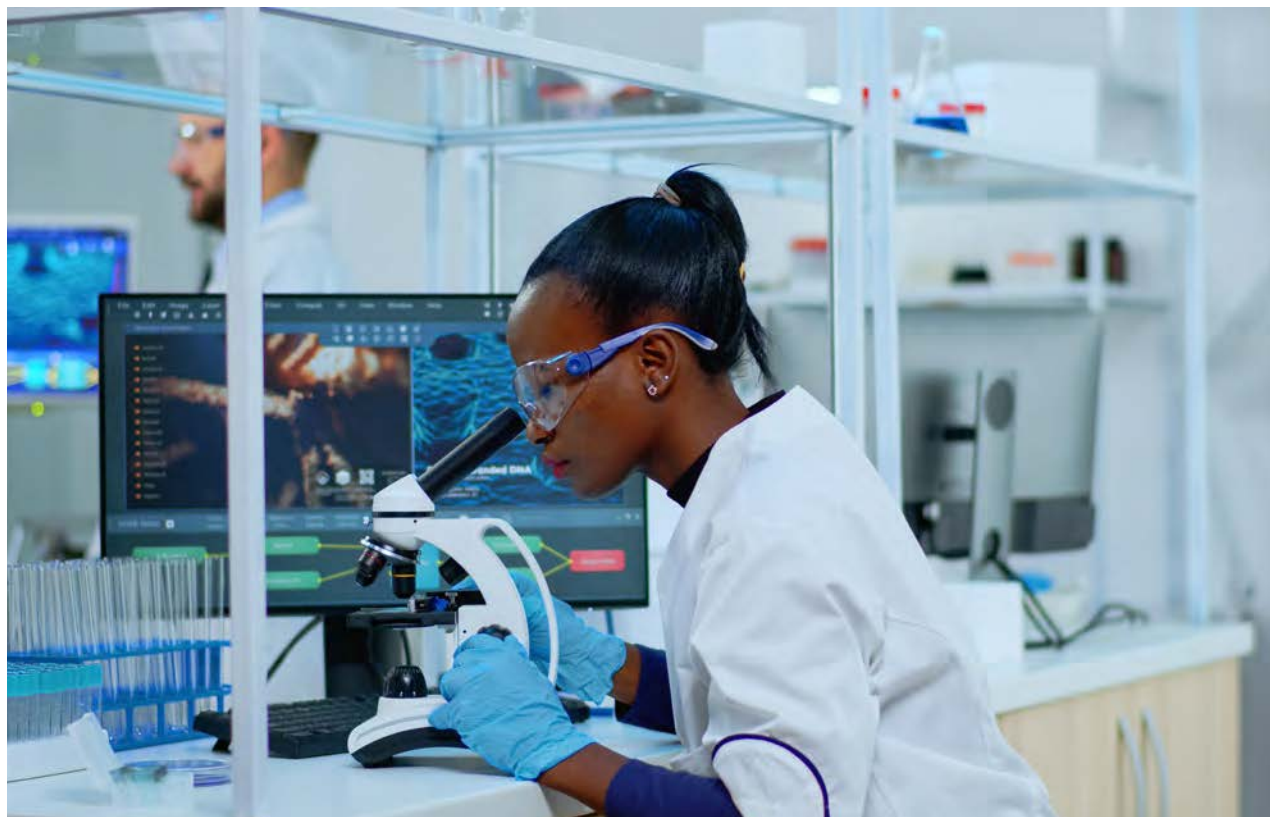
Find out more

<https://edu.rsc.org/job-profiles/patent-attorney/4010853.article>

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Associate scientists

Associate scientists help to develop new medicines to treat diseases, including vaccinations. They work with a range of different people to help with the development of making medicines that are then given to patients. Their work involves dissolving compounds, which are the ingredients to make medicines.

Find out more

<https://edu.rsc.org/job-profiles/associate-scientist-pharmaceuticals/4010913.article>

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? What science career is helping to fix plastic pollution?



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Analytical technician, plastics

Analytical technicians have the knowledge and skills to modify the molecular structure of plastics so they can biodegrade in the natural environment. Plastics are widely used because they have some very useful properties, scientists working with plastics have the very important role of finding ways to maintain the useful properties of plastics while making them safer for our environment.

Find out more

<https://edu.rsc.org/job-profiles/analytical-technician-plastics/4010921.article>

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? What chemistry careers can help solve the problem of food waste?



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Research and development chemist

Research and development chemists make a difference across so many different sectors. With food chemistry a research and development chemist use their knowledge to do something tangible and develop a product that will help reduce food waste. They work with an interdisciplinary team, composed of experts in different fields, and they work together to achieve a common goal - reducing food waste.

We throw away so much food. In 2018, UK households wasted 6.6 million tonnes according to the *Waste and Resources Action Programme* (Wrap). Over two thirds (4.5 million tonnes) of that discarded food could still have been eaten, an unnecessary waste worth £14 billion altogether or £700 for an average family with children, Wrap says.

Find out more

<https://edu.rsc.org/future-in-chemistry/4013010.article>