

Science Super Hero

Sarah Hughes



Job Title: Physical Oceanographer

Describe your job: I study the ocean, measuring how warm and salty the sea is and how this is changing over time. This is important because changes in the ocean affect the marine life that lives in it.

Favourite subjects at school: Maths, Physics and Geography



Super Vision

Scientists like me can use computer programmes to help see what the seas would be like in the future.

Super Saver

Scientists like me can help save the seas and oceans by making sure they are looked after properly

Science Super Hero

Berit Rabe



Job Title: Physical Oceanographer

Describe your job: I go out on boats and deploy instruments in the ocean that measure temperature, salinity and currents in different parts of the world, from Scottish coastal waters to the ice-covered regions of the Arctic. Back in the office I study the data using computer programs. My work is important because nobody has explored those regions before and it is a small piece of a big puzzle to try to explain our earth.

Favourite subjects at school: Maths and Geography



Super Explorer

Scientists like me explore new areas of our oceans that nobody has ever looked at before.

The ocean is our last frontier and there is a lot more to be discovered and explored.

Super Vision

Scientists like me can see what is happening in the ocean using different instruments and it helps us understand what is changing within the ocean.

Science Super Hero

Annabel Mansell



Job Title: Design Engineer

Describe your job: I help design and make Air Source Heat Pumps. These are machines that can be used to heat your home and provide hot water for showers.

Favourite subjects at school? Pure Maths, Design and Technology, Languages



Super Saver

By designing more environmentally friendly alternatives to existing products Engineers like me can help reduce the amount of power people use and green house gases emitted. This not only helps reduce climate change but can also help reduce fuel bills.

Super Hearing

Engineers test products in many ways before they are sold. 1 of the tests I do is to check how noisy things are. We use a special test room called an anechoic chamber which blocks out background noise. It's so quiet in there you can hear your blood pumping around your body.

Science Super Hero

Anna Sierawska



Job Title: Bioethicist

Describe your job: I study how science can be done in a good way, so it does not harm anyone and I try to make sure that as many people as possible can benefit from it.

Favourite subjects at school: Philosophy, Geography, Languages



Creative Thinker

Philosophers and ethicist ask many questions and think a lot about abstract ideas and theoretical scenarios, so in case of a conflict or a problem they can suggest best possible solutions.

Balance Keeper

Ethicists attempt to prevent harm in science. They make sure that no one gets hurt for other person's benefit.

Science Super Hero

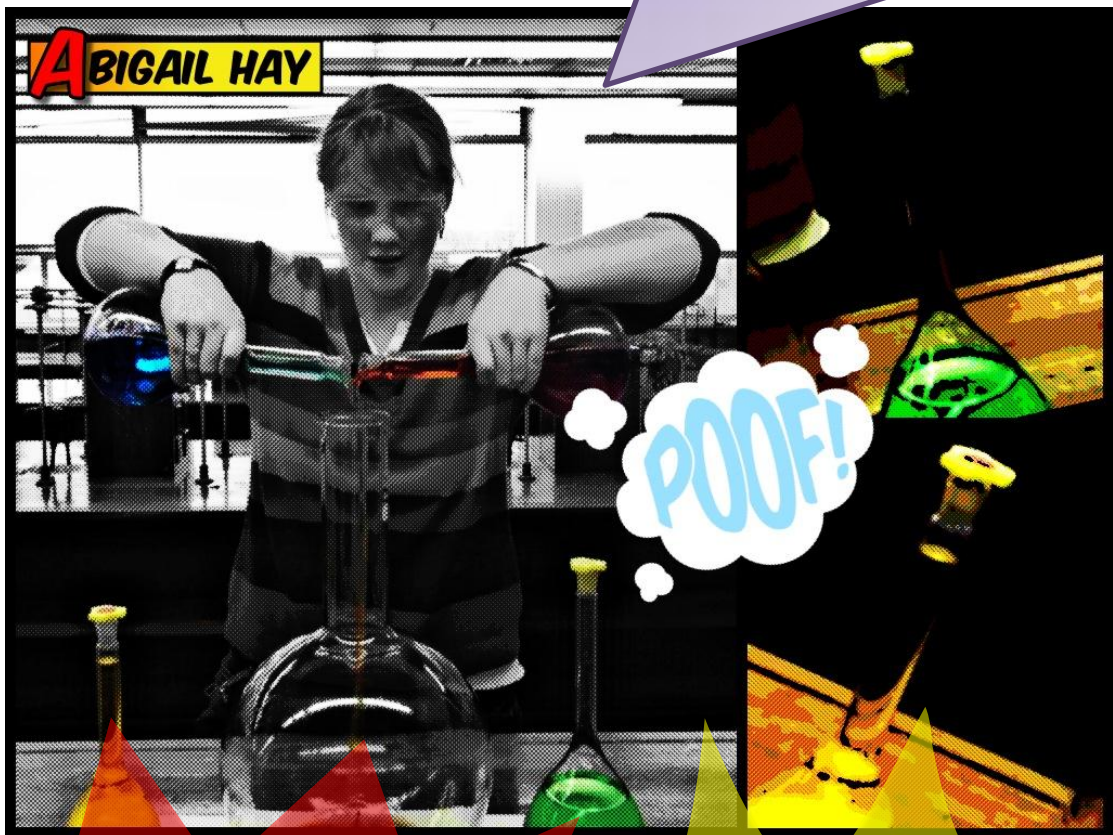
Abigail Hay



Job Title: Genetics Student

Describe your job: Have you ever wondered why your eyes or hair are a different colour to your friend's? I study the reason why. I also study how sometimes things can go wrong and make people ill. This is important because it means we can work out how to make people better.

Favourite subjects at school: Biology, Chemistry, Maths



Super Saver

Scientists like me can help make people better when they get sick and sometimes even stop people getting sick to start with.

Super Vision

Scientists like me can look inside people without hurting them to see what is making them sick. We can also find out if someone is going to get sick in the future and try to stop that happening.

Science Super Hero

Harriet Aitken



Job Title: Chemical Engineering PhD Student

Describe your job : I am trying to create new and cheap ways to clean up water polluted with dangerous chemicals. At the moment I am working on a reactor that traps poisonous chemicals using only rusty screws and nails leaving the water clean and safe for people to drink.

Favourite subjects at school: Maths, Chemistry and Art.



Super Saver

Scientists like me can help save people from drinking water polluted with dangerous chemicals.

Super Vision

Scientists like me can use machines to test for dangerous chemicals that are so small you can't see them.

Science Super Hero

Faye Campbell



Job Title: Electrical & Electronics Engineering Student

Describe your job : I study electronic circuits and electrical systems which can be designed to do just about any job you can imagine.

Favourite subjects at school: Physics, Art and Maths



Super Saver

Scientists like me are creating wireless networks which can help call doctors for people who are ill.

Super Energy

Scientists like me can turn things like sunlight and people's movement into electrical energy to power our electronic devices.

Science Super Hero

Nava Tintarev



Job Title: Computer Scientist

Describe your job : I study how to make computers more understandable to people. This is important because computers are making a lot of decisions for us, so it's important that we can check if we agree with them!

Favourite subjects at school: Maths, English and Computing



Super Creator
Scientists like me can write computer programmes that help explain and summarize large amounts of information.

Super Linguist
Scientists like me can speak several of the secret languages of computers. I can understand what they are saying and explain it in simple terms to people.

Science Super Hero

Ila Glennie



Job Title: Subsea Engineer

Describe your job : I build and install equipment and pipes that are placed under the water, on the seabed. This equipment carries oil and gas from where they are stored in rocks under the sea, to where they can be used to make energy and things like plastic and petrol.

Favourite subjects at school: Maths and French



Super Energy
Engineers like me help produce oil and gas to power the world

Super Strength
Subsea Engineers use remote controlled robots to do heavy work deep under the water

Science Super Hero

Lauren Smith



Job Title: Shark Biologist

Describe your job : I study the different types of sharks in the ocean; I look at how their bodies work, where they like to live and how we can look after them. This is important because sharks play a very important role in helping to keep the oceans healthy.

Favourite subjects at school: Biology, Geography, History



Super Saver

Scientists like me can help save sharks by telling other people what we know about them so they also understand them and know how to look after them

Super Swimmer

Scientists like me can use special underwater breathing equipment so we can swim underwater for a long time to get closer to the sharks and take a look at the watery world they live in.

Science Super Hero

Jenny Wright



Job Title: Oceanographer

Describe your job: I study the waters around Scotland, measuring how warm and salty the sea is, and I think about where the water is flowing from and where it is flowing to.

Favourite subjects at school: Maths and Biology



Super Vision

Scientists like me put instruments into the water and can see what is happening under the sea surface

Super Detective

Scientists like me can look at the different properties of water, such as temperature and salinity, and work out where that water has come from.

Science Super Hero

Louise Ryan



Job Title: Geophysicist

Describe your job: I look at the earth, its rocks, volcanoes, and earthquakes – what causes them and how we might learn about the earth from them.

Favourite subjects at school: Maths, Physics and Geography



Super Energy

By studying the earth and its process humans can harness that power to generate heat and electricity through oil and gas, geothermal, wind, wave and tidal energy.

Super Hearing

By listening to the earth we can work out what it is like inside.

Science Super Hero

Artemis Parvizi



Job Title: Computer Science Researcher

Describe your job: I teach computers how to speak and think. Computers can do things way faster than we can, but they need to learn how to do things first.

Favourite subjects at school: Maths, Languages and Programming



Secret Language
I can talk computer language. I write programs that can help other people also talk to the computer.

Computer Brain Surgeon
I can read computer's mind. I can look inside a computer brain and see what is wrong and then I can fix it.

Science Super Hero

Isabel Galan



Job Title: Cement chemist

Describe your job: I study cement and concrete, trying to improve their properties and make them more sustainable. This is important because we need houses, bridges, etc, and we need to improve their quality taking into account the energy and pollution involved.

Favourite subjects at school: Maths, Physics and Chemistry



Super Saver

Scientists like me can help find more sustainable (clean) construction materials. This will reduce the emissions of gases that contribute to pollution.

Super Strength

Scientists like me can help find stronger construction materials to last longer, save money and energy.

Science Super Hero

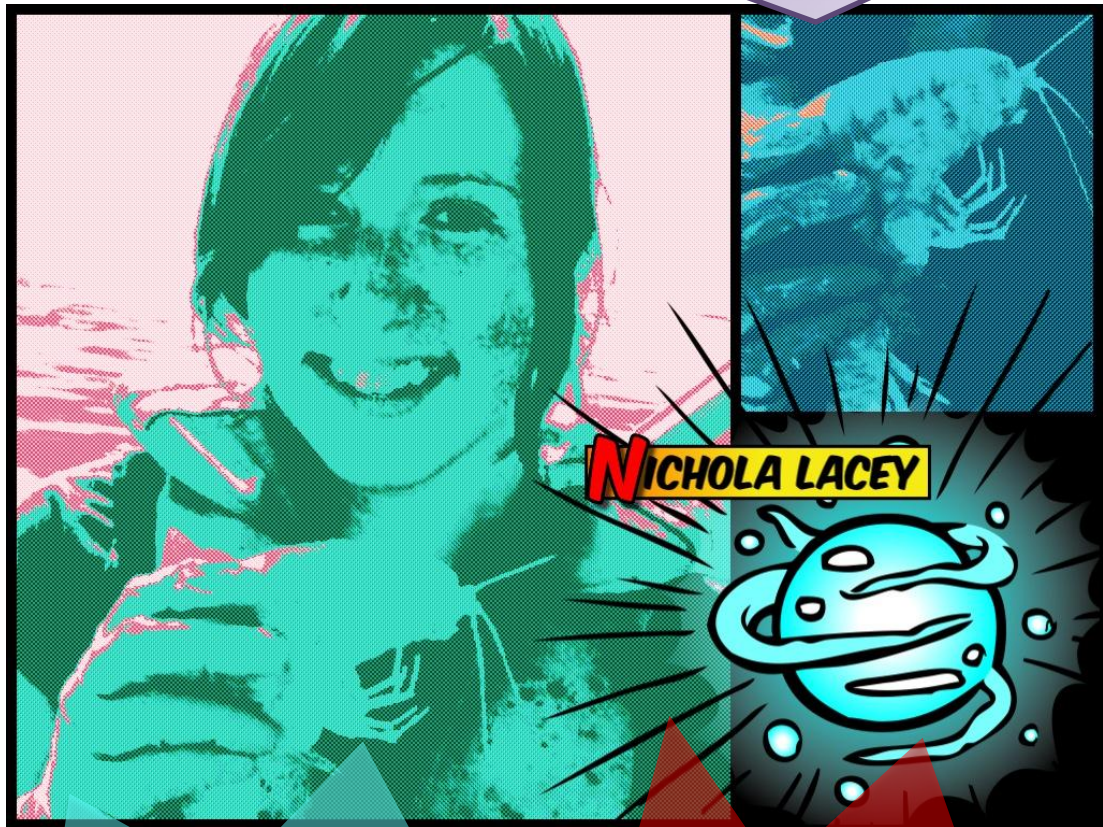
Nichola Lacey



Job Title: Marine Biologist (PhD Student)

Describe your job: I study animals that live in the deepest part of the oceans – hadal trenches. This is important to understand how animals live in the deep sea and how all life is connected; Life in the shallows is connected to life on the ocean floor.

Favourite subjects at school: Biology, English, Art



Super Vision

I use microscopes to look at some of the smallest animals up close.

Super Strength

I use traps and cameras that work at the very bottom of the sea, with the weight of the ocean pressing down on them.

Science Super Hero

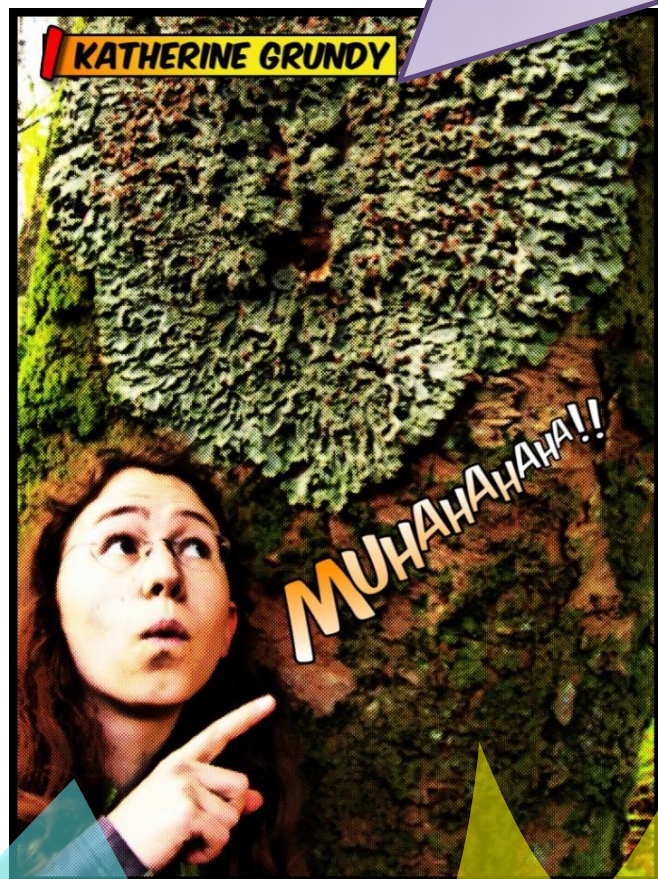
Katy Grundy



Job Title: PhD student (Biological Sciences)

Describe your job : I study a rare fungus, and am trying to work out what conditions it needs in order to survive. This is important because it will help us to make sure the fungus does not go extinct.

Favourite subjects at school: Art, Chemistry, Maths



Super Saver
Scientists like me can help to save wildlife by working out what action we can take to help species.

Super Vision
Scientists like me can read DNA in order to find out how organisms are related to each other.

Science Super Hero

Tara Marshall



Job Title: Fish biologist

Describe your job: I study the biology and ecology of marine fish that you eat like cod, haddock and herring. This is important because these are important sources of food in Scotland. It is important to understand how fish stocks in the North Sea are coping with overfishing and climate change.

Favourite subjects at school: English, Math and Environmental Science



Super Sampler

Scientists like me go to sea to sample fish and measure different aspects of their biology like how big they are, what they eat and how many eggs they produce.

Science Super Hero

Louise Ross



Job Title: Plant ecologist

Describe your job : I study mountains, moorlands and forests, and the plants that live there, so that we can understand how they give us clean air, fresh water and suck up carbon.

Favourite subjects at school: Biology, Geography, English



Super Saver

Scientists like me can help save mountains, moorlands and forests so that they will be there for us to use and enjoy, both now and in the future.

Super Cleaner

Protecting trees and plants gives us a cleaner environment to live in, as they are able to clean up our air and water.

Science Super Hero

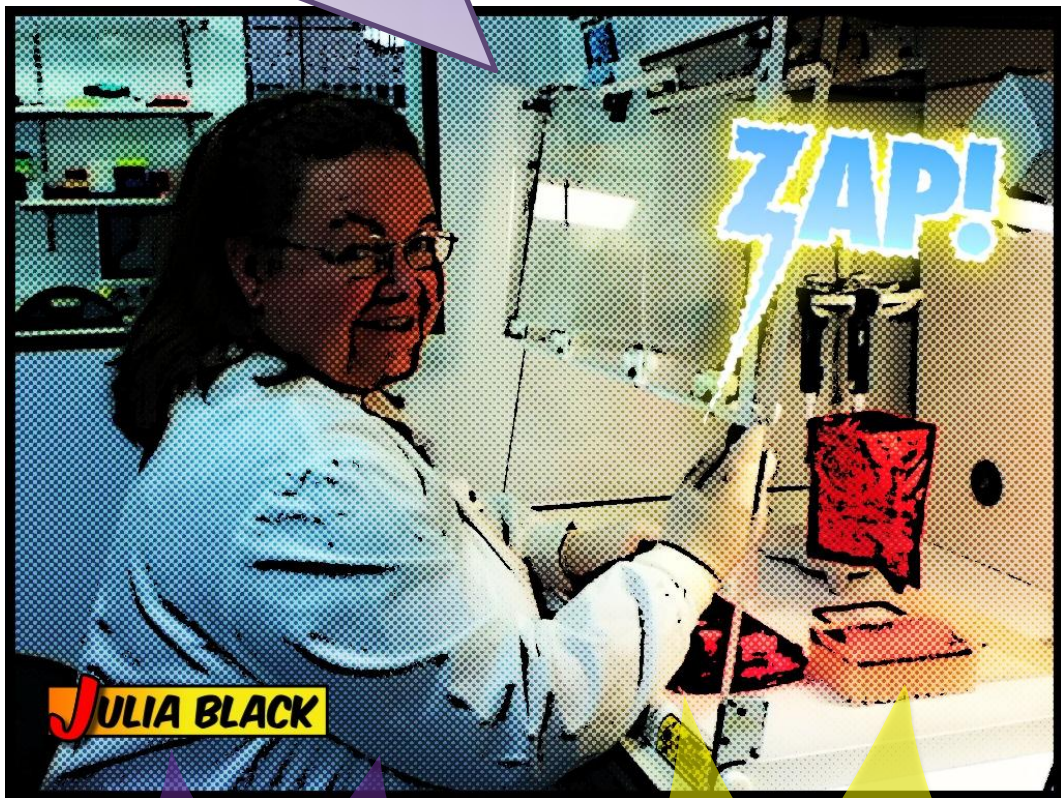
Julia Black



Job Title: Molecular Geneticist

Describe your job : I use my scientific skills to work out what diseases fish and shellfish have. I do this by looking at DNA, which is so small you can't even see it with a microscope.

Favourite subjects at school: Biology, Geography and History



Super Saver
Scientists like me can save fish and shellfish by stopping diseases spreading.

Super Vision
Scientists like me can use different machines to see DNA, which can tell us lots of things about diseases and also about the fish and shellfish.

Science Super Hero

Gillian Kinsella



Job Title: Environmental Business Analyst

Describe your job : I help to organise meetings for members of the oil and gas industry to talk about environmental issues. I help to organise studies about environmental problems, I study data to see if there is an impact on the environment and I write about environmental issues.

Favourite subjects at school: Geography and Art



Super Saver
Scientists like me can help to make sure that energy is created in a way that doesn't have a negative impact on the environment

Super Analyst
Scientists like me use their maths powers to look at environmental data; this helps to understand what impact energy generations may have on the environment

Science Super Hero

Fiona Brennan



Job Title: Soil and Environmental Microbiologist

Describe your job: I study microorganisms in soil, water and plants. I'm interested in tracking microorganisms that make people sick within the environment. I'm also interested in microorganisms that are involved in important processes in the soil

Favourite subjects at school: Agricultural Science, Biology



Super Saver

Scientists like me can help prevent people becoming sick and help prevent the release of gases from the soil that warm the planet.

Super Vision

Scientists like me can use microscopes and molecular techniques to see very small microorganisms and their DNA.



