

PHYSICISTS PREDICT

"Thousands of people can be killed, injured or made homeless by a volcano, earthquake or tsunami. I try to find ways to predict when danger looms and warn whole cities to evacuate, saving thousands of lives."



"Beneath the Earth's surface are hot rocks and geysers, all driven by radioactivity. I am looking for better ways to use this free and clean energy to power our world. In the meantime I search for the oil and coal reserves we need to survive."

Nicola Lang, Geophysicist

IOP Institute of Physics

76 Portland Place, London W1B 1NT
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For careers in earth and geosciences see:
www.physics.org

PHYSICISTS SAVE

"Faced with a tiny baby born 15 weeks early I need to work fast to set up all the technical devices we need to save her life."

"I might be supporting a cancer patient through his radiotherapy, working out just what doses he needs to cure him. I can also develop new instruments to help diagnose diseases and injuries. Without us, the doctors would be unable to treat 80% of the problems that their patients have.

Emma Sowter, Medical Physicist

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PHYSICISTS INSPIRE

"Creating live, fun, action packed talks for youngsters gives me a real buzz and really inspires children to think about science."



"I can be writing a magazine article to explain some science ideas, or travelling the world to find out about the latest science to put into the newspaper. I might be invited to give a lecture in a school, I might be working in a science centre showing people how to do new experiments. All the time I am working to inspire people with how fascinating science can be."

James Hendry, Science Communicator

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PHYSICISTS PROTECT

“Why is climate change such a threat? Working in Environmental Physics I can construct models of how the land and oceans are changing and what effect our lifestyle has on them. ”

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“I can warn of problems and advise about the best ways forward. I can measure changes in sea temperatures and I can measure melting glaciers and work out if the changes are important. I may be looking at how to manage water supplies – making sure we have enough for everyone. Or I might be checking that sewage is treated properly so that our beaches are not polluted.”

Louise Helten, Environmental Physicist

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Research the Earth's surface and how rocks and gases interact to understand and predict the weather, climate and sea level rise and how they affect our world and the environment. For more information visit: www.iop.org

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Learn more of problems and what about the best ways to solve them. Climate change is a global issue and Environmental Physics is a multi-disciplinary field that combines physics and engineering to understand the environment and how it affects our lives. For more information visit: www.iop.org

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Visit the website at www.iop.org to find out more about the IOP's outreach work. We have a range of resources for schools and colleges. We are looking for people to give a talk or run a workshop. For more information visit: www.iop.org

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