

Meet the scientist



Name: Rayne Holland

Place of Birth: Exmouth, Devon, UK

Place of Work: Bristol, UK

Job Title: Postgraduate (PhD) Student, Atmospheric Chemistry Research Group (ACRG)

Who do you work for? Atmospheric Chemistry Research Group (ACRG), University of Bristol, UK

What do you do? I work in atmospheric modelling, looking at the chemical transport and the fate of different pollutants in the atmosphere. A model here refers to a mathematical model and uses computers to do the large calculations. In the future, I intend to extend an existing atmospheric model to allow for linking with economic and health models. This will allow the health and economic effects of air pollution and the impacts of different air pollution reduction methods to be assessed.

What skills do you have to use in your job? I am constantly developing new skills in my role including computer coding, big data management, data interpretation and critical analysis. Other skills I use regularly are analytical thinking, communication and problem-solving.

Why do you like your job? I am very interested in all aspects of environmental science and want to learn more about how the world works. My role in the ACRG allows me to learn about, and research, many different areas that interest me including pollution, climate change and climate education.

What inspired you to choose a career in science? I was always interested in the environment and how different systems work. Science is how I find out the answers to my questions.