Newcastle University
Global Challenges

Water
Addressing global challenges for water resources.

Water research at Newcastle University is developing solutions to the world’s water problems through interdisciplinary expertise, innovation and collaboration.

We’re working with academics, government, industry and communities around the world to develop sustainable and resilient water systems in cities and catchments worldwide.

Our research projects are making sustainable management of water possible, and enhancing water infrastructure.

We have expertise in a range of relevant areas. These range from climate modelling to adaptation, from catchment management to wastewater treatment and sanitation.

Our methods span many disciplines including hydrology, civil engineering, high performance computing, statistics, social science and climate change impacts. They are addressing the most pressing water challenges the world faces today and in the future.

Examples of how Newcastle University researchers in water are making a difference globally:

- making communities more resilient to flooding
- reducing the spread of multi-antibiotic resistance
- investigating changes in rainfall extremes
- improving management of the water-energy-food nexus
- developing practical applications to improve adaptation to climate change

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