



**Case study**  
**Creating new business**

NERC research and commercialisation funding enabled the development of a remote, real-time, water-quality monitor.

Hydraclam® is now used by all UK water service providers to rapidly detect and respond to water-quality issues, avoiding expensive disruption to water supplies.

**Case study**  
**De-risking new technology**

NERC's British Geological Survey characterised UK onshore shale gas reserves which are estimated to have a wholesale value of £28bn.

Geologists' advice to government on the risks associated with shale gas extraction enabled drilling to resume at a Cuadrilla site, and underpinned new regulations to ensure this important resource can be safely exploited.

NERC regularly works with policymakers to inform environmental policy.



**Increase the impact of research on your business**

NERC research enables safe and efficient access to the **natural resources** on which all businesses depend.

Our modelling of **environmental hazards** helps industry mitigate and adapt to risks to supply chains and infrastructure.

Our expertise in **environmental change** helps make businesses sustainable and able to take advantage of new opportunities.

We focus on five key areas:

- Sustainable food production
- Natural resources
- Infrastructure
- Environmental data
- Risk management



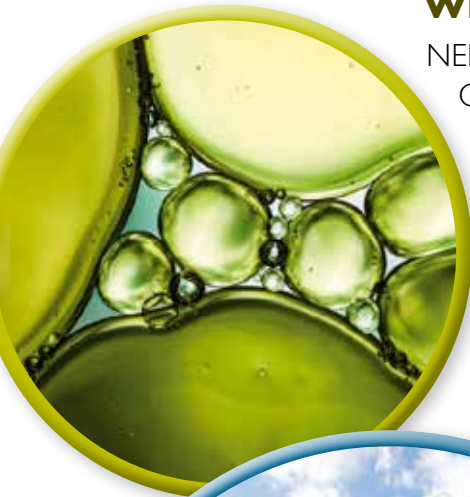
**Contact us**

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**A natural business partner**





## Who we are

NERC – the Natural Environment Research Council – is the largest public funder of environmental science in the UK. Each year we invest more than £330 million in research, training and innovation, in UK universities and our own research centres.

Our research has to make a difference and partnerships are important to us. We work hard to develop our relationships with business, to ensure the use of our research and support economic growth.

We want to understand your needs so we can match our science to the challenges facing your organisation.



## What we offer

We know different businesses want different approaches, so NERC has a number of flexible mechanisms through which we can:

- **translate research** into tools, approaches and solutions
- **fund scientists** to work with you, providing access to scientific knowledge, data or tools in the research base
- **collaborate on research projects** to address your business requirements
- **apply our problem-solving skills** to business challenges.



## Case study

### Improving competitiveness

NERC climate science helps improve the catastrophe modelling that reinsurers use to estimate potential losses from events like flooding and storms.

Improving these models helps reinsurance companies avoid the accumulation of risk that could lead to large losses.

In collaboration with NERC, Willis Research Network invests an estimated £800k pa in postdoctoral fellowships and PhD students to turn such research into practical applications to maintain the UK's competitive position in this global industry.

It is estimated that just a five per cent reduction in average insured losses due to storm damage could be worth £62-130m pa to the UK insurance industry.

