

ABERDEEN
INSTITUTE
OF ENERGY

The Energy Institute in The Energy Capital

Distinctive. Engaged. Delivering.



Powered by

UNIVERSITY
OF ABERDEEN



Far reaching
solutions
that make
a difference



Distinctive

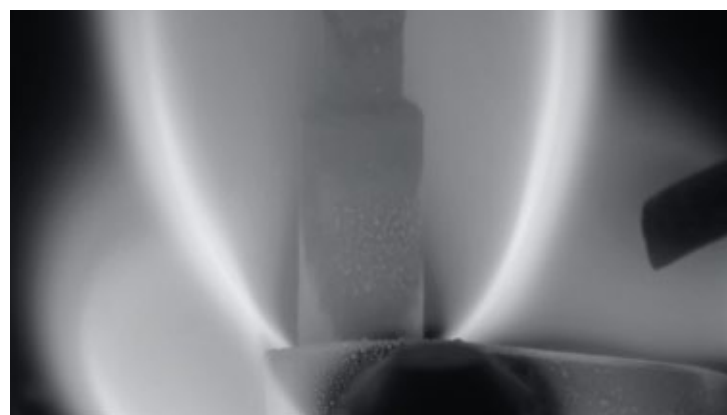
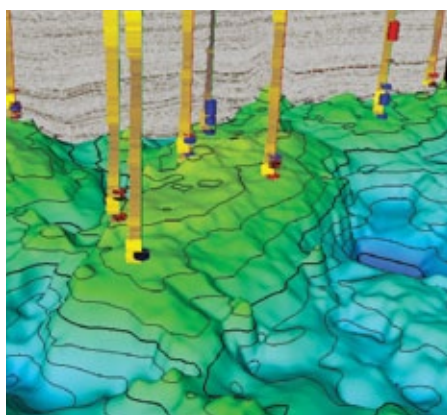
The Aberdeen Institute of Energy, powered by the University of Aberdeen is a distinctive solution that will help address current and future energy challenges.

Built on the foundations of research driven education for over 500 years, Aberdeen Institute of Energy will signify a major step-change in the way energy related solutions can be delivered between industry and academia. Situated in the heart of Europe's Energy Capital; a city renowned throughout the world for technological development and inspiring solutions, we are best placed and best connected to understand the needs of the industry and make a real difference.

We have world renowned academic experts working together, across boundaries and disciplines to maintain the highest quality of research, innovation and exchange of new ideas, whilst being responsive to demands for teaching and solutions-seeking research from industry and policy makers.

To reach the solutions required by the industry an approach to working across natural, environmental and technical sciences, economics, law and social sciences is essential. Our approach to working consciously mirrors the way the energy industry operates, in bringing together experts from different disciplines to solve problems and deliver projects.

While we already work together with some of the supermajors in addressing the "big picture" issues facing the industry, we are set up in a way that allows us to also work alongside the more specialised technology-driven firms which are every bit as essential to the sector. Our approach is flexible and our experience is vast.



Effective engagement
is our primary focus;
with industry and wider
stakeholders





Engaged

It is a time for innovative thinking - a combination of industry know how and academic insight. We will continue to work in conjunction with, and expand our offering to the vast knowledge base, right here on our doorstep and through our broad network of international connections and partners.

Our research sees geologists and engineers working closely with economists and legal experts to maximise opportunities for production of hydrocarbons in the most cost-effective manner, including conventional and unconventional hydrocarbons.

We are analysing how behaviour and choice is adapting transport infrastructure, the built environment and energy efficiency initiatives to enable us to better manage and respond to demand for future energy supply.

We are examining methods to facilitate new energy production, be this related to cross border co-operation, ownership and licensing, environmental management, or risk mitigation. Lawyers work with economists, engineers, geologists and environmental scientists to ensure the resources needed to meet energy demand are effectively deployed.

We investigate materials science, flow assurance, and instrumentation, combined with research into industrial safety and human factors, focused towards maximising the operational efficiency of oil and gas assets by maximising production and minimising cost.

Our researchers are working to optimise the integration of electrical energy generated from wind and marine resources into regional grid distribution systems to ensure a stable and reliable supply for corporate and domestic users.

This is just a flavour of our work.

Externally we have been engaged with the international hydrocarbon industry for over 40 years and in that time have helped to deliver major solutions.

In parallel, we have been delivering teaching in the fields of petroleum geology, engineering, energy law, energy economics, computing and chemistry.

It is widely recognised that the energy industry is at a crossroads: the push for alternative, renewable sources is essential, but so too is the need to maximise economic recovery and use of existing fossil fuels. The broad knowledge base within the Aberdeen Institute of Energy can tackle the full spectrum of energy challenges facing society now and in the future.

We are here for you so come and talk to us today about:

- Research collaboration opportunities
- Consultancy services
- Knowledge Transfer projects
- The training needs of your staff
- Ways to support the design and delivery of our degrees
- Employment and placement opportunities for our students and graduates



Delivering

Through our distinctive set-up and engaged approach, we will deliver:



The Institute brings together, and enhances, the expertise we already have in energy-related research carried out across our teams of experts, all at the forefront of their individual fields. The additional appointments we have made will further enhance our research capability.

We have a long track record in producing the confident, skilled graduates which are vital to the industry. Our close links with industry ensure our graduates have mastered real-life scenarios and challenges during their studies. We continue to develop and deliver a world class suite of energy related programmes, always informed and supported by industry.

Our modern, flexible curriculum blends in-depth study in a chosen discipline with opportunities to study relevant interdisciplinary courses, preparing our students to address global challenges.

We will lead to enhance our growing portfolio of professional development programmes which look ahead to industry needs. Through a number of our programmes we are able to offer a flexible approach for industry professionals wishing to combine postgraduate studies with their employment.

We will develop our already impressive portfolio of national and international partnerships and collaborations with the academic, industry, governmental and other interested sectors.


We will continue to initiate innovation and excel in areas of blue-sky, curiosity driven research. This is an area that the University has excelled in over recent years in all areas of energy research. Indeed, rankings released in 2013 put the University of Aberdeen in sixth place in the UK for its success in 'spinning-out' research into commercial products and companies.


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For more information:

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