

OUR PARTNERS

The Energy Technologies Institute (ETI) is focused on the acceleration of the development of affordable, clean and secure technologies that will help the UK meet its legally binding 2050 climate change targets.

The Research Councils UK (RCUK) is a strategic partnership of the UK's seven Research Councils. The RCUK invest around £3 billion each year in research covering the full spectrum of academic disciplines.

The University of Edinburgh is globally recognised for its research, development and innovation and has been providing students with world-class teaching for more than 425 years (ranked 20th best university in the World, 5th in UK, 1st in Scotland). The School of Engineering was ranked third in the last Research Assessment Exercise (HEFCE) in terms of quality and volume of research activities among Engineering Schools in the United Kingdom.

The city of Edinburgh is home to a UNESCO world heritage site and the world's biggest arts festival, and is regularly recognised as one of the UK's best places to live.

The University of Exeter: Engineering at Exeter maintains an excellent standing in the UK, ranking in the top 10 in *The Times Good University Guide 2012* and *The Complete University* and *Guardian* guides. Commitment to ensuring an exemplary student experience through, among others, research-led teaching and high-quality supervision is confirmed in the latest National Student Survey in which the University was ranked 1st in the UK.

The University of Strathclyde houses the largest Engineering Faculty in Scotland which is one of the top five Engineering faculties in the UK. The first wind turbine for electricity production was created at Strathclyde and the University is now ranked the top European Technological University for sustainability. The research facilities include the largest ship-model experiment wave/towing tank in any UK university - Kelvin Hydrodynamics Laboratory.

HR Wallingford is an organization with a 60 year track record of achievement in applied research and specialist consultancy in civil engineering and environmental hydraulics. It boasts a unique mix of know-how, assets and facilities including state of the art physical modelling laboratories, a full range of computational modelling tools and, above all expert staff with world-renowned skills and experience.

The Scottish Association for Marine Science is a learned society that is among the oldest oceanographic organisations in the world. Based at the Scottish Marine Institute, it delivers research and education that aim to improve understanding and sustainable use of the marine environment. SAMS is also a founding partner of the University of the Highlands and Islands, a federal collegiate academic institution.

CONTACT

We are happy to provide you with further information and to discuss possible research areas for sponsoring through the programme at any time. Proposals are expected to fit with the vision of the IDCORE as well as with the needs of the industrial sponsor.

We are looking for companies who would be interested in sponsoring projects starting in June 2014 and subsequent years.

To propose a project starting in June 2014, please send an expression of interest, including a short description of the project by 30th of June 2013.

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Delivering World-Class Industry Focussed Research
in Offshore Renewable Energy

Industrial Doctoral Centre for Offshore Renewable Energy is an initiative of the Energy Technologies Institute and the Research Councils UK (RCUK) Energy programme. It is a consortium of Universities of Edinburgh, Exeter, and Strathclyde; HR Wallingford; and the Scottish Association for Marine Science

IDCORE offers a four-year full-time Engineering Doctorate



Our research engineers, recruited via a rigorous selection process involving some of the industrial project sponsors, come from a diverse background ranging from undergraduate engineering degrees to graduates of both UK and European masters programmes and industrial experience. Their one unifying quality is a passion for offshore renewable energy.

PROGRAMME

The second cohort of five research engineers joined the programme in September 2012 and will start their industrial projects in June 2013, having completed a programme of twelve intensive, two week, course modules culminating with a summer school in Oban. The training programme covers principals of offshore wind, wave and tidal energy systems as well as project management, economic and environmental assessment. The majority of the programme is taught in Edinburgh by leading academics drawn from the three partner universities and researchers from our partner institutions. During their industrial projects research engineers will attend a further three summer schools and undertake three distance learning modules.

Over the next eight years IDCORE will train 50 research engineers who will complete this excellent vocationally-oriented training programme.

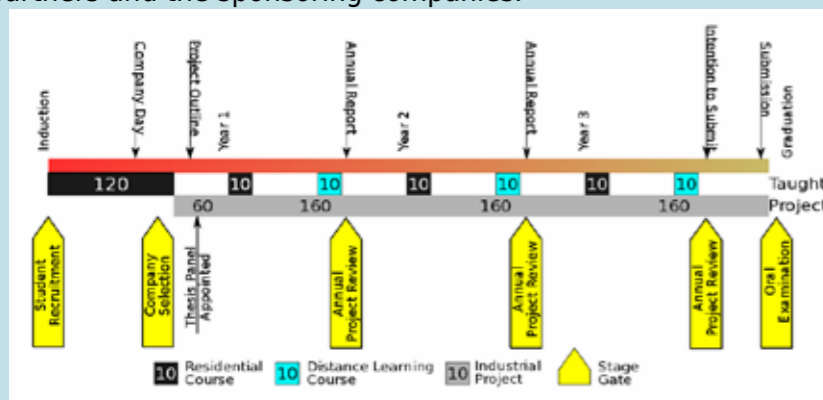
RESEARCH PROJECT

Research projects are proposed and directed by sponsoring companies and the research engineers are supported by a panel of academic supervisors to ensure an appropriate level of rigour and discovery in the project work. Projects can focus on any aspect of offshore renewable energy and should aim to make an original contribution to company procedures and practices or to knowledge in general.

EngD projects can center on single research project with a submission of a thesis or on several linked projects for a portfolio, giving more flexibility than a traditional PhD. Consortia (multi-sponsor) projects are encouraged to enable research topics of wide interest to be addressed. At the end of the programme the research engineers will graduate with an engineering doctorate jointly awarded by the three universities.

IP arising from the project will normally be shared by the research engineer and the company.

All projects will be covered by an NDA between the IDCORE partners and the sponsoring companies.



SPONSORING A PROJECT

BENEFITS

IDCORE aims to provide the industry leaders of tomorrow.

The value of supporting a research engineer can be very significant to a company. In return for a modest investment, the company has access to directed research by a high calibre engineer with access to university research facilities and academic support. Working with a research engineer can also provide extended "interview and selection" opportunities.

Project sponsors benefit from:

- Significant leverage on research investment
- Involvement in research engineer recruitment
- High quality researchers dedicated to your organisation's research
- Opportunity to guide Research Engineer training
- Participation in IDCORE activities such as the Interdisciplinary Group Project and the annual assembly/ company day.
- Added value through interaction with other IDCORE Research Engineers and their sponsors
- Opportunities to coordinate research efforts across the sector
- Collaborating with leading academic researchers and institutions
- Access to world class research facilities
- A high profile national programme.



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REQUIREMENTS

Sponsoring companies need to commit to support a research engineer for three and a half years and provide them with:

- a challenging research project, mostly based in the UK
- office space
- day-to-day industrial supervision to support the academic supervision provided by the partner Universities
- time away from the company to attend three summer schools and working on three open distance learning courses

COST

- Companies which are not members of the Energy Technology Institute need to make a minimum financial contribution of £40k per Research Engineer (£10,000 per annum for four years)
- Additional funding specific to a project might be required and should be discussed with the academic partner supervising the work.
- Fully funded projects where the sponsor covers the full cost of the student's fees & stipend as well as the incidental costs of the research are welcome.

