

Course Information Sheet for entry in 2018-19

DEng in Renewable Energy Marine Structures (EPSRC Centre for Doctoral Training)



About the course

The DEng in Renewable Energy Marine Structures offers you the opportunity to develop in-depth knowledge, understanding and expertise in the design and development of renewable energy marine structures. The programme provides a comprehensive state-of-the-art training through taught modules and advanced research and development based in the sponsoring company.

The CDT is run in collaboration with Cranfield University, though you will be based in the sponsoring company and the Department of Engineering Science at the University of Oxford for the majority of your degree. The main area of interest at Oxford is in geotechnical engineering, though applicants working in the wider area of civil engineering with applications to renewable energy marine structures are also welcomed.

Offers for this degree will only be made if suitable arrangements can be, or are likely to be, made with a sponsoring company. You are advised to contact the CDT Director Professor Byron Byrne to discuss arrangements at an early stage to ensure your application is appropriate to this degree. Alternatively please consider the DPhil in Renewable Energy Marine Structures which follows a similar program of taught and research components, but leads to a DPhil thesis, and is University based.

The first year of the DEng course focuses on developing core skills in offshore engineering through both taught courses at Cranfield and individual research. From October to December you will complete an induction term at Cranfield University where you will take introductory taught courses, across the breadth of design for renewable energy marine structures, including a group design project.

This will develop a broad knowledge base on which to build your advanced research from. You will also develop links with the students enrolled through the Cranfield stream of the CDT. You will begin a research project from January, as preparation for your main research activities. You will also continue with your group design project with a submission at the end of the second term. You will have both a university and an industrial supervisor, who you will meet regularly to assess progress and discuss research matters. The topic(s) and main location of your project will be by agreement with your two supervisors and the sponsoring company. You will also continue with the group project, which will normally be completed by the end of April of the first year.

Following the second term you will have access to a range of advanced skills, transferable skills and management/leadership skills modules that will be taught at Cranfield University. These will be completed according to a flexible timetable, agreed with your supervisors, to complement your research and development activities. The advanced skills modules will include structural design, structural integrity, manufacturing, fluid mechanics and geotechnical engineering. Transferable skills will include academic writing and presentation, research ethics, IP, teamwork and communication skills. Leadership skills will include aspects of management, strategy, operations and entrepreneurial skills. The main focus of activity following the second term will be your individual research and development projects, which will be based mainly at the sponsoring company. You will continue to meet with your industrial and university supervisors on a regular basis to assess progress and to discuss research matters.

You will integrate with the CDT cohort, your company office and the Engineering Department, principally Civil Engineering, at Oxford. You will attend research seminars at Oxford to discuss research papers, to present your research, to rehearse conference talks, and to build links between different research areas. You will also present your work within your company as required. An Annual CDT Workshop will give you the opportunity to present research to other CDT students, industrial partners and invited researchers from other universities. Industrial collaborators will be invited to share their latest problems and to highlight market trends.

Students will be assessed continually through the first year during the taught courses and the group project, as well as from the individual project. Following the completion of four terms, including the induction term, the CDT and industry supervisors will formally assess whether sufficient progress has been made to continue with the research. Students will be required to write a research report, to give an oral presentation, as well as presenting a detailed and coherent plan for their future research. Progress towards completion is again formally assessed during the eighth term of study. For the DEng, students submit a substantial thesis or coherent portfolio of research and development work which is read and examined by experts in the field, one from the department and one from elsewhere. Often the research will result in the publication of several journal and conference papers, and these may form the basis for the submitted portfolio of work.

Changes to courses

The University will seek to deliver this course in accordance with the description set out above. However, there may be situations in which it is desirable or necessary for the University to make changes in course provision, either before or after registration. For further information, please see the University's Terms and Conditions.

Expected length of course

4 years

Costs

Annual fees for entry in 2018-19

| Fee status | Tuition fee | College fee | Total annual fees |
|--------------------------------|-------------|-------------|-------------------|
| Home/EU (including Islands) | £4,260 | £3,112 | £7,372 |
| Overseas | £19,915 | £3,112 | £23,027 |

The fees shown above are the annual tuition and college fees for this course for entry in the stated academic year; for courses lasting longer than one year, please be aware that fees will usually increase annually. Information about how much fees and other costs may increase is set out in the University's Terms and Conditions.

Tuition and college fees are payable each year for the duration of your fee liability (your fee liability is the length of time for which you are required to pay tuition and college fees).

Graduate students who have reached the end of their standard period of fee liability may be required to pay a termly University and/or a college continuation charge.

The University continuation charge, per term for entry in 2018-19 is £468, please be aware that this will increase annually. For part-time students, the termly charge will be half of the termly rate payable by full-time students.

If a college continuation charge applies (not applicable for non-matriculated courses) it is likely to be in the region of £100 to £400 per term. Please contact your college for more details.

Additional cost information

Over the course of your studies you will be required to attend study modules at Cranfield University for approximately 20 weeks in total. You will need to pay your own accommodation and food costs throughout your studies, including while attending modules at Cranfield University. Single accommodation at Cranfield over the four-year course is expected to total an additional £4,000 weighted towards the first year. You will also be expected to fund travel costs to and from Cranfield University in relation to the short modules in the later years of the programme. Travel costs from Oxford to Cranfield over the four-year course are expected to be around £450 in total, but will depend on individual circumstances. In the first year of the programme, to avoid duplication of costs, you will be advised to take accommodation in Oxford from the January after the programme commences having spent the first term of the programme living accessibly for the period of study at Cranfield. If you are awarded a fully funded place on the programme (eg an RCUK studentship or an industrially sponsored award) you will receive a stipend/funding in relation to your living expenses which you should manage accordingly.

Living costs

In addition to your tuition and college fees, you will need to ensure that you have adequate funds to support your living costs for the duration of your course.

The likely living costs for 2018-19 are published below. These costs are based on a single, full-time graduate student, with no dependants, living in Oxford. We provide the cost per month so you can multiply up by the number of months you expect to live in Oxford.

| | Likely living costs for 1 month | | Likely living costs for 9 months | | Likely living costs for 12 months | |
|--------------------------|---------------------------------|-------------|----------------------------------|-------------|-----------------------------------|-------------|
| | Lower range | Upper range | Lower range | Upper range | Lower range | Upper range |
| Food | £258 | £361 | £2,318 | £3,245 | £3,090 | £4,326 |
| Accommodation | £536 | £677 | £4,824 | £6,093 | £6,432 | £8,124 |
| Personal items | £118 | £263 | £1,066 | £2,364 | £1,421 | £3,152 |
| Social activities | £41 | £123 | £369 | £1,105 | £492 | £1,474 |
| Study costs | £39 | £85 | £348 | £765 | £464 | £1,020 |
| Other | £22 | £47 | £202 | £419 | £269 | £559 |
| Total | £1,014 | £1,556 | £9,127 | £13,991 | £12,168 | £18,655 |

When planning your finances for any future years of study at Oxford beyond 2018-19, you should allow for an estimated increase in living expenses of 3% each year.

More information about how these figures have been calculated is available at www.graduate.ox.ac.uk/livingcosts.