

## Course Information Sheet for entry in 2021-22: MSc by Research in Engineering Science



### About the course

The MSc by Research in Engineering Science provides graduates with the opportunity to develop knowledge, understanding and expertise in their chosen field of engineering research, well beyond the level of a taught master's degree, but without the requirement to complete as much novel research as a doctoral student. Students develop broad skills in relevant areas of mathematical and computational modelling, in the design and build of apparatus and software, and in data analytics and visualisation.

A key aspect of your research experience in the department will be exposure to the broad sweep of today's engineering research. The department's research groups cluster into the following fields:

- biomedical engineering
- chemical and process engineering
- civil and offshore engineering
- electrical and opto-electronic engineering
- energy
- information, vision and control engineering
- solid mechanics and materials
- thermofluids and turbomachinery.

However, the department is committed to considering engineering as a unified subject, allowing interdisciplinary research to flourish.

In the first year, you will develop research skills in two ways. Firstly, you will read the current literature, often in reading groups, and attend research seminars, relevant lectures and training courses. Secondly, you will design and build apparatus, develop software, or both to address your own research topic. Often there is external involvement and you will develop your work in collaboration with researchers from industry and other research organisations.

### Supervision

You will join your supervisor's research group which normally has post- doctoral researchers and other research students working on broadly similar research themes. Typically you would interact daily with member of the group and have weekly contact with your supervisor. Many groups have weekly meetings where members discuss their research or perhaps present other published work.

The allocation of graduate supervision for this course is the responsibility of the Department of Engineering Science and it is not always possible to accommodate the preferences of incoming graduate students to work with a particular member of staff. Under exceptional circumstances a supervisor may be found outside the Department of Engineering Science.

### Assessment

As well as ongoing assessment by your supervisor, you will be required to write a report and give a presentation on your research at the end of the first year, and to present a detailed and coherent plan for the second and final phase in the second year of your master's.

At the end of the second year, you will be required to submit a thesis which is read and examined viva voce by experts in the field, one from the department and one from elsewhere. The thesis is likely to result in the publication of one or more journal papers.

### 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. These may include significant changes made necessary by a pandemic (including Covid-19), epidemic or local health emergency. For further information, please see the University's Terms and Conditions (<http://www.graduate.ox.ac.uk/terms>) and our page on changes to courses (<http://www.graduate.ox.ac.uk/coursechanges>).

**Expected length of course**

	<b>Full Time Only</b>
<b>Expected length</b>	2 to 3 years

## Costs

### Annual fees for entry in 2021-22

Fee status	Annual Course fees
Home (UK, Republic of Ireland, Channel Islands & Isle of Man)	£8,290
Overseas (including EU)	£27,460

Course 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 course fees). 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.

Course fees cover your teaching as well as other academic services and facilities provided to support your studies. Unless specified in the additional cost information (below), course fees do not cover your accommodation, residential costs or other living costs. They also don't cover any additional costs and charges that are outlined in the additional cost information.

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 2021-22 is £528, 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

There are no compulsory elements of this course that entail additional costs beyond fees (or, after fee liability ends, continuation charges) and living costs. However, please note that, depending on your choice of research topic and the research required to complete it, you may incur additional expenses, such as travel expenses, research expenses, and field trips. You will need to meet these additional costs, although you may be able to apply for small grants from your department and/or college to help you cover some of these expenses.

## Living costs

In addition to your course 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 2021-22 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 2021-22

	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
<b>Food</b>	£280	£400	£2,520	£3,600	£3,360	£4,800
<b>Accommodation</b>	£655	£790	£5,895	£7,110	£7,860	£9,480
<b>Personal items</b>	£130	£250	£1,170	£2,250	£1,560	£3,000
<b>Social activities</b>	£45	£115	£405	£1,035	£540	£1,380
<b>Study costs</b>	£45	£100	£405	£900	£540	£1,200
<b>Other</b>	£20	£55	£180	£495	£240	£660
<b>Total</b>	£1,175	£1,710	£10,575	£15,390	£14,100	£20,520

When planning your finances for any future years of study at Oxford beyond 2021-22, 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](http://www.graduate.ox.ac.uk/livingcosts).

## Document accessibility

If you require an accessible version of the document please contact Graduate Admissions and Recruitment by email ([graduate.admissions@admin.ox.ac.uk](mailto:graduate.admissions@admin.ox.ac.uk)) or via the online form (<http://www.graduate.ox.ac.uk/ask>).