HOW TO USE THIS GUIDE

Find your way to Imperial

Imperial is home to a global community of scientists, engineers, medics and business experts who are using their diverse talents to find solutions to some of the world’s biggest challenges – from researchers working on a climate-friendly COVID-19 recovery plan to engineers leading our Transition to Zero Pollution programme (page 3).

This guide brings together our Master’s and Doctoral courses relating to our global challenge of discovery and the natural world.

This is one of four global challenges (see the back cover) that guide the way our community works together across subject boundaries to find solutions to some of humanity’s biggest problems – like global pandemics, reducing global emissions, combating food insecurity and maintaining data security.

Find the right Master’s course for you
To help you find the right Master’s course for you in this guide, we have grouped them by theme, rather than by department.

These broader categories are designed to help you explore all the way you could contribute to making the world a healthier place – it may not be in a way you previously considered or in the department that matches your first degree.

What’s more, it may lead to a career you never imagined or a job that doesn’t yet exist.

Doctoral courses
Our Doctoral students have the chance to be true pioneers in their field by creating brand new knowledge. See pages 20–21 to discover our Doctoral courses relating to discovery and the natural world.

Many of our departments welcome students whose background is not in the same area of science or engineering.

COVID-19
These are unprecedented times for all of us. This guide presents our courses for 2021–2022 as they would operate under normal circumstances. We may have to make changes should restrictions still be in place as a result of COVID-19. Please keep an eye on our website for information about potential course changes for the 2021–2022 academic year.

www.imperial.ac.uk/study/covid-19

Top 10
Consistently ranked amongst the top 10 universities in the world
QS World University Rankings 2021

1st
in the UK for graduate employability
The Guardian University Guide 2021

1st
Most innovative university in the UK (2nd in Europe)
Reuters World Top 100 Most Innovative Universities 2020

No.1
Located in the world’s best student city
QS Best Student Cities 2019
A UNIQUE science community

At Imperial, you will join a community of world class researchers and gain a unique insight into work to tackle some of the world’s biggest challenges. It’s work that unites our experts across subject boundaries, drawing on the wealth of talent that exists in our global top ten institution.

Our work to help find a balance between our human-centric society and the environment relies on us building a better understanding of how to optimise and conserve the world around us. We’re guided in this work by a number of questions.

What if we could...

- quantify and reduce the impact of environmental and climate change?
- deliver water, energy and minerals that are secure, sustainable and affordable?
- understand the mechanisms which influence how humans make decisions?
- identify the unknown 95% of the universe?

Read more about the work we’re already doing to address these challenges (see right).

Making an impact

Our research-led approach also shapes the way we educate our students through teaching that opens everything up to question. It’s a style of education that relies on learning by discovery, rather than memorising facts.

Imperial experts have predicted that sustained Antarctic warming of just 2°C could melt the largest ice sheet on Earth. Professor Tina van de Flierdt from the Department of Earth Science and Engineering, co-author of the international research study, has warned that the melting of the ice sheets will lead to global sea level rise and threaten coastal regions around the world.

Helen O’Brien in the Department of Physics is the lead engineer for a new Imperial-built instrument onboard the recently launched Solar Orbiter, a joint European Space Agency (ESA) and NASA mission to study the Sun. Imperial’s instrument has already started sending back data to Earth which will be analysed to better understand the Sun’s magnetic field.

Researchers from the Department of Life Sciences, led by Dr Richard Gill, have used micro-CT scanning technology to reveal how specific parts of bumblebee brains grow abnormally when exposed to pesticides during their larval phase, affecting their ability to perform simple learning tasks as adults. The research team suggests their work highlights the need for guidelines on pesticide usage.

Professor Mary Ryan from the Department of Materials is leading a pioneering new interdisciplinary programme to address the challenge of global pollution. The Transition to Zero Pollution programme will include a range of new research programmes – alongside new investment and sustainability policies – aimed at inspiring fundamental changes in areas such as the way materials are used in manufacturing, how we produce food and energy, and will help mitigate the impact of air pollution on people’s health.
**Where could an Imperial degree lead you?**

A postgraduate degree from Imperial will provide you with an excellent foundation for your future. Here are just a few members of our 200,000-strong global alumni community who are building on their Imperial education.

- **Yousef Alshammari** (PhD Chemical Engineering Research 2013) is Research Scientist, Oil Market Analyst and the Editor-in-Chief at CMarkits. His current work focuses on understanding oil market dynamics and price trends. He also sits as an expert with organisations including World Energy Council and United Nations Economic Commissions for Europe.

- **Dr Emanga Alobwede** (MSc Environmental Technology 2012) is a postdoctoral research associate at Imperial and the co-founder of BIO-F Solutions, who are transforming the way our food is produced by developing eco-friendly fertilisers based on natural micro-organisms.

- **Insiya Jafferjee** (MSc/MA Innovation Design Engineering 2019) is co-founder of The Shellworks. The startup won the Imperial Venture Catalyst Challenge 2020 for their sustainable packaging created from seafood waste.

- **Amelia Womack** (MSc Environmental Technology 2013) is Deputy Leader of the Green Party of England and Wales. She uses her platform to highlight problems affecting young people and works across a wide range of social and environmental issues, with a particular focus on flooding, climate change, women’s rights and community resilience.

- **Melissa Schiele** (MSc Conservation Science 2018) is a Drone Technician for the Zoological Society of London. As part of her research, Melissa pilots a drone to help identify and study the different marine life and illegal ‘fisherfolk’ in tropical marine protected areas around the world.

- **Yousf Alshammari** (PhD Chemical Engineering Research 2013, pictured right) is Research Scientist, Oil Market Analyst and the Editor-in-Chief at CMarkits. His current work focuses on understanding oil market dynamics and price trends. He also sits as an expert with organisations including World Energy Council and United Nations Economic Commissions for Europe.

- **Amelia Womack** (MSc Environmental Technology 2013) is Deputy Leader of the Green Party of England and Wales. She uses her platform to highlight problems affecting young people and works across a wide range of social and environmental issues, with a particular focus on flooding, climate change, women’s rights and community resilience.

- **Jeremiah Smith** (MSc Computing 2011, PhD 2015) kick-started his career as a tech entrepreneur during his time at Imperial, where he twice won the Enterprise Lab’s Venture Catalyst Challenge. He is now co-founder and Chief Product Officer of environmental startup CarbonChain, enabling companies in the commodities sector to measure the emissions in their supply chains.

- **Jeremiah Smith** (MSc Computing 2011, PhD 2015) kick-started his career as a tech entrepreneur during his time at Imperial, where he twice won the Enterprise Lab’s Venture Catalyst Challenge. He is now co-founder and Chief Product Officer of environmental startup CarbonChain, enabling companies in the commodities sector to measure the emissions in their supply chains.

- **Melissa Schiele** (MSc Conservation Science 2018) is a Drone Technician for the Zoological Society of London. As part of her research, Melissa pilots a drone to help identify and study the different marine life and illegal ‘fisherfolk’ in tropical marine protected areas around the world.

- **Yousf Alshammari** (PhD Chemical Engineering Research 2013, pictured right) is Research Scientist, Oil Market Analyst and the Editor-in-Chief at CMarkits. His current work focuses on understanding oil market dynamics and price trends. He also sits as an expert with organisations including World Energy Council and United Nations Economic Commissions for Europe.

- **Amelia Womack** (MSc Environmental Technology 2013) is Deputy Leader of the Green Party of England and Wales. She uses her platform to highlight problems affecting young people and works across a wide range of social and environmental issues, with a particular focus on flooding, climate change, women’s rights and community resilience.

- **Jeremiah Smith** (MSc Computing 2011, PhD 2015) kick-started his career as a tech entrepreneur during his time at Imperial, where he twice won the Enterprise Lab’s Venture Catalyst Challenge. He is now co-founder and Chief Product Officer of environmental startup CarbonChain, enabling companies in the commodities sector to measure the emissions in their supply chains.

- **Jeremiah Smith** (MSc Computing 2011, PhD 2015) kick-started his career as a tech entrepreneur during his time at Imperial, where he twice won the Enterprise Lab’s Venture Catalyst Challenge. He is now co-founder and Chief Product Officer of environmental startup CarbonChain, enabling companies in the commodities sector to measure the emissions in their supply chains.

- **Jeremiah Smith** (MSc Computing 2011, PhD 2015) kick-started his career as a tech entrepreneur during his time at Imperial, where he twice won the Enterprise Lab’s Venture Catalyst Challenge. He is now co-founder and Chief Product Officer of environmental startup CarbonChain, enabling companies in the commodities sector to measure the emissions in their supply chains.

- **Jeremiah Smith** (MSc Computing 2011, PhD 2015) kick-started his career as a tech entrepreneur during his time at Imperial, where he twice won the Enterprise Lab’s Venture Catalyst Challenge. He is now co-founder and Chief Product Officer of environmental startup CarbonChain, enabling companies in the commodities sector to measure the emissions in their supply chains.

- **Jeremiah Smith** (MSc Computing 2011, PhD 2015) kick-started his career as a tech entrepreneur during his time at Imperial, where he twice won the Enterprise Lab’s Venture Catalyst Challenge. He is now co-founder and Chief Product Officer of environmental startup CarbonChain, enabling companies in the commodities sector to measure the emissions in their supply chains.
Master’s courses by theme

Our interdisciplinary approach means our expertise often spans departmental boundaries. And so do our courses, so you may find a course of interest in an unexpected area of the College, or a way to follow your interests you never previously considered.

Themes in this guide
This guide contains Master’s courses relevant to our global challenge of discovery and the natural world. To help you search your study options in this area, we’ve grouped our Master’s courses together under the following themes:

- Artificial intelligence, robotics and machine learning
- Big data, computational modelling and mathematical methods
- Biomedical science
- Biosciences
- Ecosystems and the environment
- Energy futures and resource management
- Entrepreneurship
- Fluid mechanics
- Materials science and product innovation
- Medical technology
- Molecular science
- Policy and communication

To learn more about all our Master’s courses visit:

- www.imperial.ac.uk/study/pg/courses

Artificial intelligence, robotics and machine learning
- The design and engineering of robotic technology and computer software that can learn and adapt to its environment without being programmed.

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Faculty</th>
<th>Entry requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRes Advanced Molecular Synthesis</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>2:1 in chemistry or chemical engineering.</td>
</tr>
<tr>
<td>MSc Artificial Intelligence</td>
<td>Computing</td>
<td>Engineering</td>
<td>First class Honours in mathematics, physics, engineering or other degree with substantial mathematics content.</td>
</tr>
<tr>
<td>MSc Applied Computational Science and Engineering</td>
<td>Earth Science and Engineering</td>
<td>Engineering</td>
<td>2:1 in engineering or a science-based discipline.</td>
</tr>
<tr>
<td>MSc Environmental Data Science and Machine Learning</td>
<td>Earth Science and Engineering</td>
<td>Engineering</td>
<td>As above.</td>
</tr>
</tbody>
</table>

Big data, computational modelling and mathematical methods
- The analysis of large data sets to reveal trends and patterns and make predictions.

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Faculty</th>
<th>Entry requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Advanced Materials for Sustainable Infrastructure</td>
<td>Civil and Environmental Engineering</td>
<td>Engineering</td>
<td>2:1 in civil engineering or science-based discipline.</td>
</tr>
<tr>
<td>MRes Advanced Molecular Synthesis</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>2:1 in chemistry or chemical engineering.</td>
</tr>
<tr>
<td>MSc Applied Biosciences and Biotechnology</td>
<td>Life Sciences</td>
<td>Natural Sciences</td>
<td>2:1 in biochemistry, biology or an appropriate subject.</td>
</tr>
<tr>
<td>MSc Applied Computational Science and Engineering</td>
<td>Earth Science and Engineering</td>
<td>Engineering</td>
<td>2:1 in engineering or a science-based discipline.</td>
</tr>
<tr>
<td>MSc Applied Mathematics</td>
<td>Mathematics</td>
<td>Natural Sciences</td>
<td>2:1 in mathematics, applied mathematics, engineering or physics.</td>
</tr>
<tr>
<td>MSc Bioinformatics and Theoretical Systems Biology</td>
<td>Life Sciences</td>
<td>Natural Sciences</td>
<td>2:1 in a biological, physical sciences, computational or mathematical subject.</td>
</tr>
<tr>
<td>MRes Chemical Biology and Bio-Entrepreneurship</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>2:1 in chemistry, physics, mathematics, biophysics, biochemistry or bioengineering. Additionally, your degree must include at least 50% physical sciences content.</td>
</tr>
<tr>
<td>MRes Computational Methods in Ecology and Evolution</td>
<td>Life Sciences</td>
<td>Natural Sciences</td>
<td>2:1 in a life sciences or physical sciences subject. A suitable grounding in mathematics is desirable e.g. A-level grade B or higher.</td>
</tr>
<tr>
<td>MSc Computational Methods in Ecology and Evolution</td>
<td>Life Sciences</td>
<td>Natural Sciences</td>
<td>As above.</td>
</tr>
<tr>
<td>MSc Engineering Fluid Mechanics for the Offshore, Coastal and Built Environments</td>
<td>Civil and Environmental Engineering</td>
<td>Engineering</td>
<td>2:1 in science or engineering. A suitable grounding in mathematics required e.g. A-level grade B or higher.</td>
</tr>
<tr>
<td>MSc Environmental Data Science and Machine Learning</td>
<td>Earth Science and Engineering</td>
<td>Engineering</td>
<td>2:1 in engineering or a science-based discipline.</td>
</tr>
<tr>
<td>MSc Environmental Engineering</td>
<td>Civil and Environmental Engineering</td>
<td>Engineering</td>
<td>2:1 in civil engineering, natural sciences, earth sciences or other numerate disciplines. A suitable grounding in mathematics required e.g. A-level grade B or higher. Relevant industry experience may also be considered (Special Qualifying Exam required).</td>
</tr>
</tbody>
</table>
Big data, computational modelling and mathematical methods (continued)

Course | Department | Faculty | Entry requirements
--- | --- | --- | ---
MSc Global Statistics (Online) | Statistics | Natural Sciences | 2:1 in statistics, mathematics, engineering or physics.

MSc Hydrology and Water Resources Management | Civil and Environmental Engineering | Natural Sciences | 2:1 in civil engineering, natural sciences, earth sciences or other numerate disciplines. A suitable grounding in mathematics required e.g. A level grade B or higher. Relevant industry experience may also be considered (Special Qualifying Exam required).

MSc Mathematics and Finance | Mathematics | Natural Sciences | 2:1 in mathematics, applied mathematics or physics.

MRes Molecular Engineering, delivered by the Institute for Molecular Science and Engineering (IMSE) | Chemical Engineering | Natural Sciences | 2:1 in engineering or physical sciences.

MRes Nanomaterials | Chemistry | Natural Sciences | First class Honours in physics with a strong mathematical content. Other scientific disciplines with significant physics and mathematics content will also be considered.

MSc Physics with Extended Research | Physics | Natural Sciences | As above.

MSc Pure Mathematics | Mathematics | Natural Sciences | 2:1 in mathematics or applied mathematics.

MSc Quantum Fields and Fundamental Forces | Physics | Natural Sciences | First class Honours in physics or mathematics with theoretical physics options.

MSc Statistics streams:  
- Applied Statistics  
- Biostatistics  
- Data Science  
- Statistical Finance  
- Statistics  
- Theory and Methods  
- Mathematics | Natural Sciences | 2:1 in statistics, mathematics, engineering or physics.

Biosciences  
- The scientific study of living organisms (humans, plants and animals) – from molecules and cells to human health and disease.

Course | Department | Faculty | Entry requirements
--- | --- | --- | ---
MSc Applied Biosciences and Biotechnology | Life Sciences | Natural Sciences | 2:1 in biochemistry, biology or an appropriate subject.

MSc Bioinformatics and Theoretical Systems Biology | Life Sciences | Natural Sciences | 2:1 in a biological, physical sciences, computational or mathematical subject.

MRes Chemical Biology and Bio-Entrepreneurship | Chemistry | Natural Sciences | 2:1 chemistry, physics, mathematics, biophysics, biochemistry or bioengineering. Additionally, your degree must include at least 50% physical sciences content.

MRes Drug Discovery and Development: Multidisciplinary Science for Next Generation Therapeutics | Chemistry | Natural Sciences | 2:1 in chemistry, pharmacy, physics, biochemistry, medicine or an appropriate subject.

MRes Molecular and Cellular Biosciences | Life Sciences | Natural Sciences | 2:1 in a biosciences-based subject. Applicants also need to demonstrate a commitment to a career in biosciences research.

MRes Molecular Plant and Microbial Sciences | Life Sciences | Natural Sciences | 2:1 in a physical sciences, engineering, mathematical, life or biomedical sciences-based subject. A suitable grounding in mathematics is desirable e.g. A level grade A or higher.

MRes Structural Molecular Biology | Life Sciences | Natural Sciences | 2:1 in a physical sciences-based subject.

MRes Systems and Synthetic Biology | Life Sciences | Natural Sciences | 2:1 in a physical sciences, engineering, mathematical, life or biomedical sciences-based subject.

MSc Taxonomy, Biodiversity and Evolution | Life Sciences | Natural Sciences | 2:1 in biology or a related subject.

For a directory of courses by A–Z and by department, please see our Study website:

- www.imperial.ac.uk/study/pg/courses
The interdisciplinary study of the environment and the solutions to the environmental problems we face.

**Course** | **Department** | **Faculty** | **Entry requirements**
--- | --- | --- | ---
MSc Advanced Chemical Engineering with Biotechnology | Chemical Engineering | Engineering | 2:1 in an engineering, physical sciences, mathematical, life sciences or biomedical sciences subject.
MSc Applied Computational Science and Engineering | Earth Science and Engineering | Engineering | 2:1 in engineering or a science-based discipline.
MRes Biological and Physical Chemistry | Chemistry | Natural Sciences | 2:1 in chemistry, physics, mathematics, biophysics, biochemistry or bioengineering. Additionally, your degree must include at least 50% physical sciences content.
MRes Biostechniques | Life Sciences | Natural Sciences | 2:1 in a biological or environmental subject.
MSc Climate Change, Management and Finance, delivered in partnership with the Grantham Institute – Climate Change and the Environment | Imperial College Business School | Engineering | For a directory of courses by A–Z and by department, please see our Study website: www.imperial.ac.uk/study/pg/courses
MRes Computational Methods in Ecology and Evolution | Life Sciences | Natural Sciences | 2:1 in a life sciences or physical sciences subject. A suitable grounding in mathematics is desirable e.g. A-level grade B or higher.
MSc Computational Methods in Ecology and Evolution | Life Sciences | Natural Sciences | As above.
MSc Earthquake Engineering | Civil and Environmental Engineering | Engineering | 2:1 in civil engineering, natural sciences, earth sciences or other numerate disciplines. A suitable grounding in mathematics required e.g. A-level grade B or higher. Relevant industry experience may also be considered (Special Qualifying Exam required).
MSc Ecological Applications | Life Sciences | Natural Sciences | 2:1 in a science subject.
MSc Ecology, Evolution and Conservation Research | Life Sciences | Natural Sciences | 2:1 in a science subject.
MRes Ecosystems and Environmental Change | Life Sciences | Natural Sciences | 2:1 in a science subject. Applicants will ideally have experience in environmental research or policy and a strong interest in pursuing a research career.
MSc Engineering Fluid Mechanics for the Offshore, Coastal and Built Environments | Civil and Environmental Engineering | Engineering | 2:1 in science or engineering. A suitable grounding in mathematics required e.g. A-level grade B or higher.
MSc Environmental Data Science and Machine Learning | Earth Science and Engineering | Engineering | 2:1 in engineering or a science-based discipline.
MSc Environmental Engineering | Civil and Environmental Engineering | Engineering | 2:1 in civil engineering, natural sciences, earth sciences or other numerate disciplines. A suitable grounding in mathematics required e.g. A-level grade B or higher. Relevant industry experience may also be considered (Special Qualifying Exam required).
MSc Environmental Technology | Centre for Environmental Policy | Natural Sciences | 2:1 in science, engineering, humanities or a social science subject.
MRes Green Chemistry, Energy and the Environment | Chemistry | Natural Sciences | 2:1 in chemistry, engineering or a related subject.
MSc Hydrology and Water Resources Management | Civil and Environmental Engineering | Engineering | See Environmental Engineering above.
MRes Molecular Plant and Microbial Sciences | Life Sciences | Natural Sciences | 2:1 in a science subject.
MSc Petroleum Geoscience | Earth Science and Engineering | Engineering | 2:1 in earth sciences. Applicants with closely related earth/environmental science degrees (such as physical geography or oceanography) or industrial experience will also be considered.
MSc Soil Mechanics | Civil and Environmental Engineering | Engineering | 2:1 in civil engineering, natural sciences, earth sciences or other numerate disciplines. A suitable grounding in mathematics required e.g. A-level grade B or higher. Relevant industry experience may also be considered (Special Qualifying Exam required).
Exploring how sustainable technologies and the management of energy and natural resources can help to address global energy issues.

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Faculty</th>
<th>Entry requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Advanced Chemical Engineering</td>
<td>Chemical Engineering</td>
<td>Engineering</td>
<td>2:1 in an engineering, physical sciences, mathematical, life sciences or biomedical sciences subject.</td>
</tr>
<tr>
<td>MSc Advanced Chemical Engineering with Biotechnology</td>
<td>Chemical Engineering</td>
<td>Engineering</td>
<td>As above.</td>
</tr>
<tr>
<td>MSc Advanced Chemical Engineering with Process Systems Engineering</td>
<td>Chemical Engineering</td>
<td>Engineering</td>
<td>As above.</td>
</tr>
<tr>
<td>MSc Advanced Chemical Engineering with Structured Product Engineering</td>
<td>Chemical Engineering</td>
<td>Engineering</td>
<td>As above.</td>
</tr>
<tr>
<td>MSc Advanced Materials Science and Engineering</td>
<td>Materials Engineering</td>
<td>Engineering</td>
<td>2:1 in materials, mechanical/civil/chemical engineering, physics or chemistry.</td>
</tr>
<tr>
<td>MSc Advanced Materials for Sustainable Infrastructure</td>
<td>Civil and Environmental Engineering</td>
<td>Engineering</td>
<td>2:1 in an engineering or science-based discipline.</td>
</tr>
<tr>
<td>MSc Applied Biosciences and Biotechnology</td>
<td>Life Sciences</td>
<td>Natural Sciences</td>
<td>2:1 in biochemistry, biology or an appropriate subject.</td>
</tr>
<tr>
<td>MSc Applied Computational Science and Engineering</td>
<td>Earth Science and Engineering</td>
<td>Engineering</td>
<td>2:1 in engineering or a science-based discipline.</td>
</tr>
<tr>
<td>MRes Biological and Physical Chemistry</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>2:1 in chemistry, physics, mathematics, biophysics, biochemistry or bioengineering. Additionally, your degree must include at least 50% physical sciences content.</td>
</tr>
<tr>
<td>MSc Climate Change, Management and Finance, delivered in partnership with the Grantham Institute – Climate Change and the Environment</td>
<td>Imperial College Business School</td>
<td><a href="http://www.imperial.ac.uk/business-school/programmes/msc-programmes">www.imperial.ac.uk/business-school/programmes/msc-programmes</a></td>
<td></td>
</tr>
<tr>
<td>MSc Ecological Applications</td>
<td>Life Sciences</td>
<td>Natural Sciences</td>
<td>2:1 in a science subject.</td>
</tr>
<tr>
<td>MSc Ecology, Evolution and Conservation</td>
<td>Life Sciences</td>
<td>Natural Sciences</td>
<td>As above.</td>
</tr>
<tr>
<td>MSc Engineering Fluid Mechanics for the Offshore, Costal and Built Environments</td>
<td>Civil and Environmental Engineering</td>
<td>Engineering</td>
<td>2:1 in science or engineering. A suitable grounding in mathematics required e.g. A-level grade B or higher.</td>
</tr>
<tr>
<td>MSc Environmental Engineering</td>
<td>Civil and Environmental Engineering</td>
<td>Engineering</td>
<td>2:1 in civil engineering, natural sciences, earth sciences or other numerate disciplines. A suitable grounding in mathematics required e.g. A-level grade B or higher. Relevant industry experience may also be considered (Special Qualifying Exam required).</td>
</tr>
<tr>
<td>MSc Environmental Technology</td>
<td>Centre for Environmental Policy</td>
<td>Natural Sciences</td>
<td>2:1 in science, engineering, humanities or a social science subject.</td>
</tr>
<tr>
<td>MSc Future Power Networks</td>
<td>Electrical and Electronic Engineering</td>
<td>Engineering</td>
<td>First class Honours (minimum of 75% overall) in electrical/electronic engineering or a related subject with a substantial electrical/electronic engineering component.</td>
</tr>
</tbody>
</table>

For a directory of courses by A-Z and by department, please see our Study website: www.imperial.ac.uk/study/pg/courses
Entrepreneurship

Developing the knowledge and skills to design, launch and manage a new business or startup.

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Faculty</th>
<th>Entry requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Climate Change, Management and Finance, delivered in partnership with the Grantham Institute – Climate Change and the Environment</td>
<td>Imperial College Business School</td>
<td><a href="http://www.imperial.ac.uk/business-school/programmes/msc-programmes">www.imperial.ac.uk/business-school/programmes/msc-programmes</a></td>
<td></td>
</tr>
<tr>
<td>MSc Environmental Technology</td>
<td>Centre for Environmental Policy</td>
<td>Natural Sciences</td>
<td>2:1 in science, engineering, humanities or a social science subject.</td>
</tr>
<tr>
<td>MSc Innovation, Entrepreneurship and Management</td>
<td>Imperial College Business School</td>
<td><a href="http://www.imperial.ac.uk/business-school/programmes/msc-programmes">www.imperial.ac.uk/business-school/programmes/msc-programmes</a></td>
<td></td>
</tr>
<tr>
<td>MSc Mathematics and Finance</td>
<td>Mathematics</td>
<td>Natural Sciences</td>
<td>2:1 in mathematics, applied mathematics or physics.</td>
</tr>
<tr>
<td>MSc Metals and Energy Finance</td>
<td>Earth Science and Engineering</td>
<td>Engineering</td>
<td>2:1 in engineering, physical sciences or economics with a substantial mathematics component. Appropriate experience, while not essential, would be an advantage.</td>
</tr>
<tr>
<td>MSc Sustainable Energy Futures, delivered by the Energy Futures Lab</td>
<td>Mechanical Engineering</td>
<td>Engineering</td>
<td>2:1 in engineering or physical sciences.</td>
</tr>
</tbody>
</table>

Fluid mechanics

The application of the laws of force and motion to liquids and gases.

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Faculty</th>
<th>Entry requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Advanced Chemical Engineering</td>
<td>Chemical Engineering</td>
<td>Engineering</td>
<td>2:1 in an engineering, physical sciences, mathematical, life sciences or biomedical sciences subject.</td>
</tr>
<tr>
<td>MSc Advanced Chemical Engineering with Process Systems Engineering</td>
<td>Chemical Engineering</td>
<td>Engineering</td>
<td>As above.</td>
</tr>
<tr>
<td>MSc Advanced Materials for Sustainable Infrastructure</td>
<td>Civil and Environmental Engineering</td>
<td>Engineering</td>
<td>2:1 in an engineering or science-based discipline.</td>
</tr>
<tr>
<td>MSc Applied Computational Science and Engineering</td>
<td>Earth Science and Engineering</td>
<td>Engineering</td>
<td>2:1 in engineering or a science-based discipline.</td>
</tr>
<tr>
<td>MSc Applied Mathematics</td>
<td>Mathematics</td>
<td>Natural Sciences</td>
<td>2:1 in mathematics, applied mathematics, engineering or physics.</td>
</tr>
<tr>
<td>MSc Engineering Fluid Mechanics for the Offshore, Coastal and Built Environments</td>
<td>Civil and Environmental Engineering</td>
<td>Engineering</td>
<td>2:1 in science or engineering. A suitable grounding in mathematics required e.g. A-level grade B or higher.</td>
</tr>
<tr>
<td>MSc Environmental Data Science and Machine Learning</td>
<td>Earth Science and Engineering</td>
<td>Engineering</td>
<td>2:1 in engineering or a science-based discipline.</td>
</tr>
<tr>
<td>MRes Molecular Engineering, delivered by the Institute for Molecular Science and Engineering (IMSE)</td>
<td>Chemical Engineering</td>
<td>Engineering</td>
<td>2:1 in engineering or physical sciences.</td>
</tr>
<tr>
<td>MSc Sustainable Energy Futures, delivered by the Energy Futures Lab</td>
<td>Mechanical Engineering</td>
<td>Engineering</td>
<td>2:1 in engineering or physical sciences.</td>
</tr>
</tbody>
</table>

For a directory of courses by A–Z and by department, please see our Study website:

www.imperial.ac.uk/study/pg/courses
### Materials science and product innovation

- **Understanding the physical and chemical properties of materials to create innovative new products.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Faculty</th>
<th>Entry requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Advanced Chemical Engineering</td>
<td>Chemical Engineering</td>
<td>Engineering</td>
<td>2:1 in engineering, physical sciences, mathematical, life sciences or biomedical sciences subject.</td>
</tr>
<tr>
<td>MSc Advanced Chemical Engineering with Process Systems Engineering</td>
<td>Chemical Engineering</td>
<td>Engineering</td>
<td>As above.</td>
</tr>
<tr>
<td>MSc Advanced Materials Science and Engineering</td>
<td>Materials Engineering</td>
<td>Engineering</td>
<td>2:1 in materials, mechanical/civil/chemical engineering, physics or chemistry.</td>
</tr>
<tr>
<td>MSc Advanced Mechanical Engineering</td>
<td>Mechanical Engineering</td>
<td>Engineering</td>
<td>First class Honours in science or engineering.</td>
</tr>
<tr>
<td>MSc Advanced Materials for Sustainable Infrastructure</td>
<td>Civil and Environmental Engineering</td>
<td>Engineering</td>
<td>2:1 in an engineering or science-based discipline.</td>
</tr>
<tr>
<td>MRes Advanced Molecular Synthesis</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>2:1 in chemistry or chemical engineering.</td>
</tr>
<tr>
<td>MRes Chemical Biology and Bio-Entrepreneurship</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>2:1 in chemistry, physics, mathematics, biophysics, biochemistry or bioengineering. Additionally, your degree must include at least 50% physical sciences content.</td>
</tr>
<tr>
<td>MSc Concrete Structures</td>
<td>Civil and Environmental Engineering</td>
<td>Engineering</td>
<td>2:1 in civil engineering, natural sciences, earth sciences or other numerate disciplines. A suitable grounding in mathematics required e.g. A-level grade B or higher. Relevant industry experience may also be considered (Special Qualifying Exam required).</td>
</tr>
<tr>
<td>MRes Drug Discovery and Development: Multidisciplinary Science for Next Generation Therapeutics</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>2:1 in chemistry, pharmacy, physics, biochemistry, medicine or an appropriate subject. Relevant industry experience may also be considered (Special Qualifying Exam required).</td>
</tr>
<tr>
<td>MSc General Structural Engineering</td>
<td>Civil and Environmental Engineering</td>
<td>Engineering</td>
<td>2:1 in civil engineering, natural sciences, earth sciences or other numerate disciplines. A suitable grounding in mathematics required e.g. A-level grade B or higher. Relevant industry experience may also be considered (Special Qualifying Exam required).</td>
</tr>
<tr>
<td>MRes Green Chemistry, Energy and the Environment</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>2:1 in chemistry, engineering or a related subject.</td>
</tr>
<tr>
<td>MRes Molecular Engineering, delivered by the Institute for Molecular Science and Engineering (IMSE)</td>
<td>Chemical Engineering</td>
<td>Engineering</td>
<td>2:1 in engineering or physical sciences.</td>
</tr>
<tr>
<td>MRes Nanomaterials</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>2:1 in chemistry, physics, mathematics, materials, biochemistry, engineering or an appropriate subject.</td>
</tr>
<tr>
<td>MRes Photonics</td>
<td>Physics</td>
<td>Natural Sciences</td>
<td>First class Honours in physics, electrical or electronic engineering or a relevant scientific discipline.</td>
</tr>
<tr>
<td>MSc Physics</td>
<td>Physics</td>
<td>Natural Sciences</td>
<td>First class Honours in physics with a strong mathematical content. Other scientific disciplines with significant physics and mathematics content will also be considered.</td>
</tr>
<tr>
<td>MSc Physics with Extended Research</td>
<td>Physics</td>
<td>Natural Sciences</td>
<td>As above.</td>
</tr>
<tr>
<td>MSc Physics with Nanophotonics</td>
<td>Physics</td>
<td>Natural Sciences</td>
<td>As above.</td>
</tr>
<tr>
<td>MRes Soft Electronic Materials</td>
<td>Physics</td>
<td>Natural Sciences</td>
<td>2:1 in physics, chemistry, chemical engineering, electrical engineering, materials science or a related subject.</td>
</tr>
<tr>
<td>MSc Structural Steel Design</td>
<td>Civil and Environmental Engineering</td>
<td>Engineering</td>
<td>2:1 in civil engineering, natural sciences, earth sciences or other numerate disciplines. A suitable grounding in mathematics required e.g. A-level grade B or higher. Relevant industry experience may also be considered (Special Qualifying Exam required).</td>
</tr>
</tbody>
</table>

### Medical technology

- **Developing technology to diagnose, monitor and treat the diseases and conditions that affect us.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Faculty</th>
<th>Entry requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Advanced Materials Science and Engineering</td>
<td>Materials Engineering</td>
<td>Engineering</td>
<td>2:1 in materials, mechanical/civil/chemical engineering, physics or chemistry.</td>
</tr>
<tr>
<td>MRes Biomaging Sciences</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>2:1 in a science, technology, engineering or medicine subject.</td>
</tr>
<tr>
<td>MRes Chemical Biology and Bio-Entrepreneurship</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>2:1 in chemistry, physics, mathematics, biophysics, biochemistry or bioengineering. Additionally, your degree must include at least 50% physical sciences content.</td>
</tr>
<tr>
<td>MRes Drug Discovery and Development: Multidisciplinary Science for Next Generation Therapeutics</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>2:1 in chemistry, pharmacy, physics, biochemistry, medicine or an appropriate subject.</td>
</tr>
<tr>
<td>MRes Nanomaterials</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>2:1 in chemistry, physics, mathematics, materials, biochemistry, engineering or an appropriate subject.</td>
</tr>
<tr>
<td>MSc Optics and Photonics</td>
<td>Physics</td>
<td>Natural Sciences</td>
<td>2:1 in physics, mathematics or electrical engineering. Relevant industry experience may also be considered (Special Qualifying Exam required).</td>
</tr>
<tr>
<td>MRes Photonics</td>
<td>Physics</td>
<td>Natural Sciences</td>
<td>First class Honours in physics, electrical or electronic engineering or a relevant scientific discipline.</td>
</tr>
<tr>
<td>MSc Physics</td>
<td>Physics</td>
<td>Natural Sciences</td>
<td>First class Honours in physics with a strong mathematical content. Other scientific disciplines with significant physics and mathematics content will also be considered.</td>
</tr>
<tr>
<td>MSc Physics with Extended Research</td>
<td>Physics</td>
<td>Natural Sciences</td>
<td>As above.</td>
</tr>
<tr>
<td>MSc Physics with Nanophotonics</td>
<td>Physics</td>
<td>Natural Sciences</td>
<td>As above.</td>
</tr>
<tr>
<td>MRes Structural Molecular Biology</td>
<td>Life Sciences</td>
<td>Natural Sciences</td>
<td>2:1 in a physical sciences-based subject.</td>
</tr>
<tr>
<td>MRes Systems and Synthetic Biology</td>
<td>Life Sciences</td>
<td>Natural Sciences</td>
<td>2:1 in a physical sciences, engineering, mathematical, life or biomedical sciences-based subject. A suitable grounding in mathematics is desirable e.g. A-level grade A or higher.</td>
</tr>
</tbody>
</table>

For a directory of courses by A–Z and by department, please see our Study website:

- [www.imperial.ac.uk/study/pg/courses](http://www.imperial.ac.uk/study/pg/courses)
**Molecular science**

- The study of molecular materials, including our cells and DNA, and their application in the real world.

**Course**
- MSc Advanced Chemical Engineering
  - Department: Chemical Engineering
  - Faculty: Engineering
  - Entry requirements: 2:1 in engineering, physical sciences, mathematical, life sciences or biomedical sciences subject.

- MSc Advanced Materials Science and Engineering
  - Department: Materials
  - Faculty: Engineering
  - Entry requirements: 2:1 in materials, mechanical, civil, chemical engineering, physics or chemistry.

- MSc Advanced Materials for Sustainable Infrastructure
  - Department: Civil and Environmental Engineering
  - Faculty: Engineering
  - Entry requirements: 2:1 in an engineering or science-based discipline.

- MRes Advanced Molecular Synthesis
  - Department: Chemistry
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in chemistry or chemical engineering.

- MRes Biomimetic Systems
  - Department: Chemistry
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in a science, technology, engineering or medicine subject.

- MRes Bioinformatics and Theoretical Systems Biology
  - Department: Life Sciences
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in a biological, physical sciences, computational or mathematical subject.

- MRes Biomedical and Physical Therapy
  - Department: Chemistry
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in chemistry, physics, mathematics, biophysics, biochemistry or biotechnology. Additionally, your degree must include at least 50% physical sciences content.

- MRes Catalysis: Chemistry and Engineering
  - Department: Chemistry
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in chemistry or chemical engineering.

- MRes Chemical Biology and Bio-Entrepreneurship
  - Department: Chemistry
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in chemistry, physics, mathematics, biophysics, biochemistry or biotechnology. Additionally, your degree must include at least 50% physical sciences content.

- MRes Drug Discovery and Development
  - Department: Chemical Engineering
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in chemistry, pharmacy, physics, biochemistry, medicine or an appropriate subject.

- MRes Environmental Science and Engineering
  - Department: Chemistry
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in chemistry, engineering or a related subject.

- MRes Molecular and Cellular Biosciences
  - Department: Life Sciences
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in a biosciences-based subject. Applicants also need to demonstrate a commitment to a career in biosciences research.

- MRes Molecular Biology
  - Department: Chemical Engineering
  - Faculty: Engineering
  - Entry requirements: 2:1 in an engineering or physical sciences.

- MRes Nanomaterials
  - Department: Chemistry
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in chemistry, physics, mathematics, materials, biochemistry, engineering or an appropriate subject.

- MRes Nanotechnology
  - Department: Physics
  - Faculty: Natural Sciences
  - Entry requirements: First class Honours in physics, electrical or electronic engineering or a relevant scientific discipline.

- MSc Physics
  - Department: Physics
  - Faculty: Natural Sciences
  - Entry requirements: First class Honours in physics with a strong mathematical content. Other scientific disciplines with significant physics and mathematics content will also be considered.

- MSc Physics with Nanotechnologies
  - Department: Physics
  - Faculty: Natural Sciences
  - Entry requirements: As above.

- MSc Physics with Quantum Dynamics
  - Department: Physics
  - Faculty: Natural Sciences
  - Entry requirements: As above.

- MRes Soft Electronic Materials
  - Department: Physics
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in physics, chemistry, chemical engineering, electrical engineering, materials science or a related subject.

- MRes Structural Molecular Biology
  - Department: Life Sciences
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in a physical sciences-based subject.

- MRes Systems and Synthetic Biology
  - Department: Life Sciences
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in a physical sciences, engineering, mathematical, life or biomedical sciences-based subject. A suitable grounding in mathematics is desirable e.g. A-level grade A or higher.

---

**Policy and communication**

- Exploring how effective communication strategies and cultural policies can help address global and regional problems.

**Course**
- MSc Applied Biosciences and Biotechnology
  - Department: Life Sciences
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in biochemistry, biology or an appropriate subject.

- MSc Environmental Engineering
  - Department: Civil and Environmental Engineering
  - Faculty: Engineering
  - Entry requirements: 2:1 in civil engineering, natural sciences, earth sciences or other numerate disciplines. A suitable grounding in mathematics required e.g. A-level grade B or higher. Relevant industry experience may also be considered (Special Qualifying Exam required).

- MSc Environmental Technology
  - Department: Centre for Environmental Policy
  - Faculty: Natural Sciences
  - Entry requirements: 2:1 in science, engineering, humanities or a social science subject.

- MSc Hydrology and Water Resources Management
  - Department: Science Communication Unit
  - Faculty: Engineering
  - Entry requirements: See Environmental Engineering above.

- MSc Science Communication
  - Department: Science Communication Unit
  - Faculty: Engineering
  - Entry requirements: 2:1 in a scientific or science-related subject.

- MSc Science Media Production
  - Department: Science Communication Unit
  - Faculty: Engineering
  - Entry requirements: 2:1 in a scientific or science-related subject.

- MSc Sustainable Energy Futures
  - Department: Mechanical Engineering
  - Faculty: Engineering
  - Entry requirements: 2:1 in engineering or physical sciences.

- MSc Transport
  - Department: Civil and Environmental Engineering
  - Faculty: Engineering
  - Entry requirements: 2:1 in civil engineering, natural sciences, earth sciences or other numerate disciplines. A suitable grounding in mathematics required e.g. A-level grade B or higher. Relevant industry experience may also be considered (Special Qualifying Exam required).

---

For a directory of courses by A–Z and by department, please see our Study website:

- www.imperial.ac.uk/study/pg/courses
**PhD (traditional route)**

An intensive academic qualification involving a series of progression milestones which you must meet along the way. Find out more and check whether funded studentships are available at:

- [www.imperial.ac.uk/study/pg/courses/doctoral-courses/phd](http://www.imperial.ac.uk/study/pg/courses/doctoral-courses/phd)

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Faculty</th>
<th>Entry requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD Chemical Engineering Research</td>
<td>Chemical Engineering</td>
<td>Engineering</td>
<td>2:1 in an appropriate subject. Applicants must also normally hold or be studying towards a Master's degree.</td>
</tr>
<tr>
<td>PhD Chemistry Research</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td>As above.</td>
</tr>
<tr>
<td>PhD Civil Engineering Research</td>
<td>Civil and Environmental Engineering</td>
<td>Engineering</td>
<td>As above.</td>
</tr>
<tr>
<td>PhD Clinical Sciences Research</td>
<td>Institute of Clinical Sciences</td>
<td>Medicine</td>
<td>2:1 in an appropriate subject, or equivalent. Master's degree is preferable, but not essential. <a href="http://www.lms.mrc.ac.uk/study-here/phd-studentships">www.lms.mrc.ac.uk/study-here/phd-studentships</a></td>
</tr>
<tr>
<td>PhD Earth Science and Engineering Research</td>
<td>Earth Science and Engineering</td>
<td>Engineering</td>
<td>2:1 in an appropriate subject. Applicants must also normally hold or be studying towards a Master's degree.</td>
</tr>
<tr>
<td>PhD Electrical Engineering Research</td>
<td>Electrical and Electronic Engineering</td>
<td>Engineering</td>
<td>As above.</td>
</tr>
<tr>
<td>PhD Environmental Research</td>
<td>Centre for Environmental Policy</td>
<td>Natural Sciences</td>
<td>As above.</td>
</tr>
<tr>
<td>PhD Life Sciences Research</td>
<td>Life Sciences</td>
<td>Natural Sciences</td>
<td>As above.</td>
</tr>
<tr>
<td>PhD Mathematics Research</td>
<td>Mathematics</td>
<td>Natural Sciences</td>
<td>As above.</td>
</tr>
<tr>
<td>PhD Medical Research Council Studentships, offered by Imperial College Medical Research Council Doctoral Training Partnership (DTP)</td>
<td>Various</td>
<td>Various</td>
<td><a href="http://www.imperial.ac.uk/erc-dtp-studentships">www.imperial.ac.uk/erc-dtp-studentships</a></td>
</tr>
</tbody>
</table>

**Integrated PhD (1 + 3)**

Integrated PhD courses typically consist of a one-year Master’s course (MSc or MRes) which leads straight into a three-year PhD.

The following opportunities are covered by funded studentships, which are available to Home students. Self-funded Overseas applicants should enquire directly to the relevant centre for information on eligibility.

- [www.imperial.ac.uk/study/pg/courses/doctoral-courses/integrated-phd](http://www.imperial.ac.uk/study/pg/courses/doctoral-courses/integrated-phd)

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Faculty</th>
<th>Entry requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRes + PhD Advanced Molecular Synthesis, offered by the EPSRC Centre for Doctoral Training (CDT) in Next Generation Synthesis and Reaction Technology</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td><a href="http://www.imperial.ac.uk/next-generation-synthesis-reaction-technology">www.imperial.ac.uk/next-generation-synthesis-reaction-technology</a></td>
</tr>
<tr>
<td>MRes + PhD BioDesign Engineering, offered by the EPSRC Centre for Doctoral Training (CDT)</td>
<td>Life Sciences</td>
<td>Natural Sciences</td>
<td><a href="http://www.imperial.ac.uk/synthetic-biology/cdt-biodegree">www.imperial.ac.uk/synthetic-biology/cdt-biodegree</a></td>
</tr>
<tr>
<td>MRes + PhD Chemical Biology: Innovation in Life Sciences, offered by the EPSRC Institute of Chemical Biology Centre for Doctoral Training (CDT)</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td><a href="http://www.imperial.ac.uk/chemical-biology/cdt">www.imperial.ac.uk/chemical-biology/cdt</a></td>
</tr>
<tr>
<td>MRes or MSc + PhD Medical Research Council Studentships, offered by Imperial College Medical Research Council Doctoral Training Partnership (DTP)</td>
<td>Various</td>
<td>Various</td>
<td><a href="http://www.imperial.ac.uk/erc-dtp-studentships">www.imperial.ac.uk/erc-dtp-studentships</a></td>
</tr>
</tbody>
</table>

**Integrated PhD (1 + 3)**

Integrated PhD courses typically consist of a one-year Master’s course (MSc or MRes) which leads straight into a three-year PhD.

The following opportunities are covered by funded studentships, which are available to Home students. Self-funded Overseas applicants should enquire directly to the relevant centre for information on eligibility.

- [www.imperial.ac.uk/study/pg/courses/doctoral-courses/integrated-phd](http://www.imperial.ac.uk/study/pg/courses/doctoral-courses/integrated-phd)

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Faculty</th>
<th>Entry requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRes + PhD Advanced Molecular Synthesis, offered by the EPSRC Centre for Doctoral Training (CDT) in Next Generation Synthesis and Reaction Technology</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td><a href="http://www.imperial.ac.uk/next-generation-synthesis-reaction-technology">www.imperial.ac.uk/next-generation-synthesis-reaction-technology</a></td>
</tr>
<tr>
<td>MRes + PhD BioDesign Engineering, offered by the EPSRC Centre for Doctoral Training (CDT)</td>
<td>Life Sciences</td>
<td>Natural Sciences</td>
<td><a href="http://www.imperial.ac.uk/synthetic-biology/cdt-biodegree">www.imperial.ac.uk/synthetic-biology/cdt-biodegree</a></td>
</tr>
<tr>
<td>MRes + PhD Chemical Biology: Innovation in Life Sciences, offered by the EPSRC Institute of Chemical Biology Centre for Doctoral Training (CDT)</td>
<td>Chemistry</td>
<td>Natural Sciences</td>
<td><a href="http://www.imperial.ac.uk/chemical-biology/cdt">www.imperial.ac.uk/chemical-biology/cdt</a></td>
</tr>
<tr>
<td>MRes or MSc + PhD Medical Research Council Studentships, offered by Imperial College Medical Research Council Doctoral Training Partnership (DTP)</td>
<td>Various</td>
<td>Various</td>
<td><a href="http://www.imperial.ac.uk/erc-dtp-studentships">www.imperial.ac.uk/erc-dtp-studentships</a></td>
</tr>
</tbody>
</table>