1st
in the UK for graduate prospects
The Guardian University Guide 2018

50
scholarships available for the most
talented PhD students from around the
world, covering tuition fees and a living
cost stipend for up to 3.5 years

8th
best university in the world
Times Higher Education World University
Rankings 2016–17

No. 1
Most innovative university in the UK
Reuters Top 100 Innovative Universities 2016

1st
for research impact – Imperial has
the greatest concentration of high-impact
research of any major UK university
Research Excellence Framework 2014

No. 1
Most international university
in the UK, and fifth in the world
Times Higher Education
World’s Most International Universities 2017

CONTENTS
ABOUT IMPERIAL
2  Welcome to Imperial
4  World renowned staff
6  World leading research
14 Global Challenge Institutes
16 PhD training centres

SUPPORT FOR YOUR FUTURE
20  Professional skills development
22  Careers support and advice
24  A culture of innovation
26  A global alumni network

OUR CAMPUSES
30  South Kensington Campus
32  Aerial map of South Kensington
34  Medical campuses, Silwood Park Campus
and White City Campus
36  Study resources (Library and IT)
116 London campuses map

STUDENT LIFE
40  Work hard, play hard
42  Supporting our students
44  Living in London
46  Accommodation

YOUR STUDY OPTIONS
50  Master’s qualifications
54  Research qualifications

FINANCE AND ADMISSIONS
60  Applying for Master’s study
62  Research applications
64  International applicants
66  Funding your studies

OUR COURSES
110  A–Z directory

Faculty of Engineering
72  Aeronautics
73  Bioengineering
75  Chemical Engineering
76  Civil and Environmental Engineering
78  Computing
79  Dyson School of Design Engineering
80  Earth Science and Engineering
81  Electrical and Electronic Engineering
82  Materials
83  Mechanical Engineering

Faculty of Natural Sciences
86  Chemistry
87  Centre for Environmental Policy
88  Life Sciences
91  Mathematics
92  Physics

Faculty of Medicine
96  Institute of Clinical Sciences
96  Medicine
98  National Heart and Lung Institute
99  School of Public Health
100  Surgery and Cancer
104 Imperial College
Business School
109 Science Communication Unit
Welcome to Imperial

Imperial College London is the only university in the UK to focus exclusively on science, engineering, medicine and business. As a postgraduate student you will be contributing to an international community, whose research has a profound impact on society and the economy.

The quality of our research environment was recognised in the latest Research Excellence Framework, which rated Imperial as having the greatest concentration of high-impact research of any major UK university.

What makes Imperial special is the quality of our people, who come here from all around the world, and our commitment to working across subject boundaries. Whether you’re joining us for a career-boosting Master’s course or you’re embarking on a research programme to make a brand new contribution to knowledge in your field, we’ll actively encourage you to make connections and draw inspiration from a community whose influence extends around the globe. And it starts right here.
World renowned staff

The quality of our staff is one thing that sets the Imperial experience apart.

In total, 14 Nobel Prize winners and two Fields Medallists are associated with the College.

Our long list of prestigious Fellowships (see right) is testament to the outstanding contributions that our staff have made in their fields.

Our commitment to maintaining the highest standards is reinforced by our own annual Excellence in Teaching awards, recognising outstanding contributions in teaching, pastoral care, research supervision and support of the student experience.

Here are just a few of the leading staff who are contributing to our world class reputation:

1. Professor Michele Dougherty was awarded the Royal Astronomical Society Gold Medal – its top honour – in 2017 for her work in space physics missions.
2. Professor Sir John Pendry’s work on metamaterials underpinned the development of the first invisibility cloak.
3. Professor Tommaso Valletti from Imperial College Business School has been appointed Chief Economist of the Directorate General for Competition by the European Commission.
4. Professor Molly Stevens received the 2016 Clemson Award for Basic Research from the Society for Biomaterials.
5. Professor Xiaodong Zhang was elected to membership of the European Molecular Biology Organisation in 2016, in recognition of her outstanding achievements and contribution to scientific excellence.
6. Professor Barbara Bain received a lifetime achievement award from the British Society for Haematology in 2017 for her exceptional contributions to the field throughout her career.
7. Professor Sanjeev Gupta is a scientist and long-term Science Planner on NASA’s Mars Science Laboratory Curiosity rover mission, which is currently exploring Gale Crater.
World leading research

Imperial is home to many world leading pioneers in science, engineering, medicine and business.

It’s a place where exciting things happen, where new ground is broken, and where discoveries are regularly translated into practice to make the modern world a healthier, safer and cleaner place to live.

Our cutting edge research is the foundation of our teaching, giving our students the chance to interact with and take inspiration from staff who are world leaders in their subject fields, addressing some of the world’s biggest challenges. See examples of our research in action on pages 8–13.

Keep up with Imperial’s latest research news: www.imperial.ac.uk/news

Join a community of world class researchers and problem-solvers who are dedicated to exploring new ideas and fresh approaches

No.1
Most innovative university in the UK, and 2nd in Europe
Reuters Top 100 Innovative Universities 2016

£350m+
Annual research income (2015–16)

1st
Imperial has the greatest concentration of high-impact research of any major UK university, as well as the highest proportion of ‘world leading’ and ‘internationally excellent’ research
Research Excellence Framework 2014

Find out more about Imperial’s REF results: www.imperial.ac.uk/REF

Be part of an institution committed to working across both subject boundaries and international ones

No.1
Most international university in the UK, and 5th in the world
Times Higher Education World’s Most International Universities 2017

6
Global Challenge Institutes, bringing together multidisciplinary research teams, and collaborating with policy makers and businesses (see pages 14–15)

12
Imperial-led Centres for Doctoral Training funded by the Engineering and Physical Sciences Research Council (EPSRC) – more than any other UK university (see pages 16–17)
Dinosaur discovery

Scientists at Imperial College London re-examined an overlooked museum fossil and discovered it is the earliest member of the titanosauriform family of dinosaurs.

The dinosaur, which the researchers have named Vouivria damparisensis, is thought to be the earliest known fossil from the titanosauriform family of dinosaurs, which includes better-known dinosaurs such as the Brachiosaurus. It lived around 160 million years ago. When the fossil was first discovered in France in the 1930s its species was not identified.

"Millions of years later this creature is providing important evidence to help us understand in more detail the evolution of brachiosaurid sauropods."

Dr Philip Mannion, Department of Earth Science and Engineering

Net neutrality

An award winning report by Imperial College Business School contrasted net neutrality, where all traffic on the internet is treated equally, to prioritisation where content providers can guarantee a faster delivery of content by paying a fee. The paper concluded that net neutrality protects innovation at the edge of the internet from small providers, such as start-ups, while prioritisation can increase investment and welfare.

"The internet has the power to connect people and enhance innovation, but this can only happen if smaller companies are allowed to flourish, so the web continues to be a place for innovation and investment."

Professor Tommaso Valetti, Imperial College Business School

TRUMP AND TWITTER

Twitter users who backed Donald Trump ahead of the US presidential election were more likely to reach out to others with opposing viewpoints.

In a study of 3.5 million tweets made in the 12 hours leading up to the election result, researchers from Imperial College Business School found that on Twitter, supporters of Mr Trump were more likely to engage with others of opposing political views to spread their message further.

In the 12 hours before the polls closed there were...

- 3,000 TWEETS using the hashtag #MakeAmericaGreatAgain (used by Mr Trump supporters)
- 1,400 TWEETS using the hashtag #I'mwithher (used by supporters of Hillary Clinton)

The researchers concluded that Trump supporters made greater efforts to win over voters on social media than Clinton supporters, right up until the polls closed.

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IMPERIAL COLLEGE LONDON POSTGRADUATE PROSPECTUS

Scientists have inserted fungus genes into a yeast cell to make it produce penicillin molecules. The synthetic biologists from Imperial have re-engineered yeast cells to manufacture the nonribosomal peptide antibiotic penicillin. The rise of synthetic biology methods for yeast will allow researchers to make and test many new gene combinations that could produce a whole new range of antibiotics. The researchers believe yeast could become the new mini-factories of the future, developing new compounds in the nonribosomal peptide family to develop drugs that counter antimicrobial resistance.

Eating more than the recommended five-a-day of fruit and vegetables showed major benefit in reducing the chance of heart attack, stroke, cancer and early death in an analysis of two million people. Study author Dr Dagfinn Aune from the School of Public Health said: “Our results suggest that although five portions of fruit and vegetables is good, 10-a-day is even better.”

The Drugs for Neglected Diseases initiative (DNDi) tests compounds that target parasitic diseases, such as leishmaniasis and Chagas disease. However, some compounds could potentially be more effective if tweaked. So students at Imperial, which is DNDi’s UK partner, design and synthesise potential anti-parasite compounds that DNDi is interested in testing.

DNDi shares its data with Imperial so students can try to synthesise similar compounds and send the best ones back to DNDi for testing. Professor Ed Tate said: “These projects allow our students to do real innovative science at the cutting edge of drug development.”
Space scientists in the Department of Physics have built one of the primary instruments aboard the European Space Agency’s Solar Orbiter spacecraft. Set to launch in 2020, Solar Orbiter will go closer to the Sun than any spacecraft so far.

The Imperial team have built the magnetometer, which will measure the Sun’s magnetic field and the role it plays in creating the solar wind. The solar wind is a stream of charged particles coming off the Sun that fills the solar system.

Principal Investigator Professor Tim Horbury said: “The interaction between the solar wind and Earth’s magnetic field gives us the aurora – the Northern and Southern Lights – but when the solar wind is strong it can also cause problems for our technology, from power grids to satellites.”

Researchers in the Department of Life Sciences discovered that sparrows with unfaithful ‘wives’ care less for their young. The study found that male sparrows can judge if a spouse is prone to infidelity, and provide less food for their brood.

The study followed 200 males and 194 females as they formed 313 unique monogamous pairs and hatched 863 broods on Lundy Island. The team DNA genotyped every sparrow, allowing them to build up precise family trees, and find out which females were most unfaithful and who they were cheating with. Dr Julia Schroeder said: “Males changed their behaviour based on their partner. When they switched from a faithful partner to one prone to infidelity, they provided less food for their brood.”

Neuroscientists at Imperial are training computers to provide a predicted ‘brain age’ for people based on their volume of brain tissue.

Combining MRI scans with machine learning, they have shown that differences between a person’s brain age and their actual age can indicate their risk of poor mental and physical health and dying before the age of 80.

The technique is still in development, but the group hopes it might one day be used as a screening tool, helping to identify those at risk of cognitive decline and early death.

Dr James Cole, Department of Medicine
Global Challenge Institutes

One of Imperial’s greatest strengths is our ability to bring together research teams from different subject areas across the College.

Our six Global Challenge Institutes, created to address some of society’s biggest challenges, are fantastic examples of this commitment to interdisciplinary working. By joining one of our Institutes, which offer postgraduate training at Master’s and/or PhD level, you will be part of a unique cross-discipline research environment and develop a wide range of transferable skills.

Visit the web link below for details of the study opportunities available.

DATA SCIENCE INSTITUTE
The Data Science Institute co-ordinates advanced data science research, dealing with the collection, preparation, management, analysis, and interpretation of large and complex datasets. It houses next-generation data visualisation facilities, including the Data Observatory (below), which provides an immersive digital canvas for decision-making – the largest of its kind in Europe.

ENERGY FUTURES LAB
Energy research spanning five key themes – clean fossil fuels, energy infrastructure, low carbon transport, policy and innovation, and sustainable power – is brought together in this cross-departmental Institute. Here, experts work together to produce an integrated view of future energy supply, demand and distribution.

GRANTHAM INSTITUTE – CLIMATE CHANGE AND THE ENVIRONMENT
This Institute brings together Imperial experts with policymakers, parliamentarians, businesses and the third sector to advance the impact of academic knowledge in climate processes and policies, innovative technologies that reduce the global carbon footprint, and planning adaptations to environmental change.

INSTITUTE FOR SECURITY SCIENCE AND TECHNOLOGY (ISST)
ISST addresses multi-faceted challenges in security and resilience in the physical environment, in cyber space, and at the interface between the two. It provides a trusted environment for government and industry to expose their security requirements to researchers and develop solutions to protect people and infrastructure.

INSTITUTE OF GLOBAL HEALTH INNOVATION (IGHI)
IGHI supports the development and widespread distribution of high impact, evidence-based healthcare innovations, with the aim of reducing inequalities in global healthcare for generations to come.

INSTITUTE FOR MOLECULAR SCIENCE AND ENGINEERING (IMSE)
IMSE fosters a new approach to molecular research and develops novel solutions to problems where molecular innovation plays an important role, such as carbon utilisation and the molecular engineering of antimicrobial surfaces.

THE FRANCIS CRICK INSTITUTE
Imperial is a university partner of the Francis Crick Institute. This interdisciplinary biomedical research institute is working to understand why disease develops and to find new ways to treat, diagnose and prevent illnesses such as cancer, infections and neurodegenerative diseases. Students on its unique four-year PhD programme graduate with a degree from Imperial and will also benefit from:

- Multidisciplinary training and supervision
- State-of-the-art facilities
- Full funding
- Outreach communications training and opportunities

Apply at: www.crick.ac.uk/about-us/jobs-and-study/phd-programme/phd-student-recruitment

www.imperial.ac.uk/study/pg/global-challenge-institutes
PhD training centres

We want to train our postgraduates to tackle society’s big challenges in a way that draws on the talent and imagination housed across the College.

One way we do this is through our government-funded PhD training centres. Imperial is the lead institution in 12 of the UK’s 115 Engineering and Physical Sciences Research Council (EPSRC)-funded Centres for Doctoral Training (CDTs) – more than any other UK university. We’re also home to a number of Doctoral Training Partnerships (DTPs) funded by other government research councils, including the Natural Environment Research Council (NERC).

Both types of training centre offer a new way of achieving your PhD. DTPs span a wide variety of areas while CDTs tend to be more focused. Features of both include:

**INTERDISCIPLINARY TRAINING**
Students from across a broad spectrum of disciplines work alongside researchers from departments across the College.

**PEER SUPPORT**
Training for each cohort begins at the same time, enabling you to form close bonds with your colleagues and draw support and inspiration from each other.

**PROFESSIONAL DEVELOPMENT**
Professional skills training is an integral part of the experience for all students.

**FULLY-FUNDED**
Fully-funded studentships are available for Home students, and EU students who have been resident in the UK for the previous three years. Some training centres also consider international candidates who have their own funding for non-funded projects.

See our course tables (70–109) to explore whether there are CDT/DTP opportunities in the area of study that you’re interested in.

www.imperial.ac.uk/study/pg/courses/phd-training-centres
The discovery of penicillin, the development of holography and the invention of fibre optics are just some of the world-changing ideas that have come from within the Imperial community.

As the meeting place for so many brilliant minds, it’s no surprise that hundreds of start-ups and spin-out companies have started life here. It’s why we’ve developed a comprehensive support system that brings together everything our student entrepreneurs need, from workshops and hackspaces for prototyping to our very own slice of Silicon Valley right here on campus in the form of our new Enterprise Lab.
Professional skills development

Studying at Imperial is a challenging experience – and that’s what makes it one of the best. You will work alongside experts in your subject field. You’ll also receive comprehensive training to develop your study and research skills and prepare you for your future career.

Find out more: www.imperial.ac.uk/graduate-school

THE GRADUATE SCHOOL

All postgraduate students enjoy automatic membership of the Graduate School, which plays a key role in supporting the postgraduate student experience at Imperial.

The Graduate School runs a year-round programme of events to bring students together across the College. These events range from a Summer Showcase celebrating the research being carried out by our PhD students to a three minute-thesis competition, as well as more informal social events to foster the sort of interactions across subject boundaries that Imperial thrives on.

Professional skills training

Professional skills training forms an integral part of an Imperial postgraduate degree. It is designed to help you acquire the sort of study and broader professional skills you need to successfully achieve your qualification and prepare for life beyond Imperial, whether inside or outside academia.

The Graduate School offers separate professional development programmes for Master’s and research students, tailored to match their specific needs. Integrating feedback from students, course organisers and graduate employers, each programme covers a wide range of skills such as interview preparation, note taking, writing a literature review, networking, presenting skills and project management through courses that vary in length and delivery.

TEACHER TRAINING PROGRAMME

Physics, chemistry, mathematics and engineering postgraduates who want to enter a teaching career can apply to join the INSPIRE full-time Postgraduate Certificate in Education (PGCE). Delivered in partnership with Canterbury Christ Church University, this intensive ten-month teacher training programme combines teaching in partner schools in London with a series of outreach activities to bring science to life.

Bursaries of up to £32,000 may be available for Home/EU students. To find out more, including entry requirements and how to apply, see: www.imperial.ac.uk/study/pg/courses/inspire

Teaching opportunities may also exist for PhD students who are considering a teaching career but don’t want the commitment of a PGCE (see page 57).

VOLUNTEERING AND MENTORING

We recognise the valuable role our postgraduates play in inspiring the next generation of scientists. That’s why we run and collaborate in a number of flexible volunteering and mentoring schemes that you can take part in alongside your studies, from peer-tutoring to one-off talks in local schools.

Imperial College Union also co-ordinates a huge range of projects. Many activities can be accredited through our Imperial Plus scheme as a way of formally recognising the skills and experience you’ve gained.

GLOBAL FELLOWS PROGRAMMES

Our Global Fellows Programmes offer PhD students the valuable opportunity to develop their personal and research effectiveness alongside colleagues from some of the world’s leading research universities. They provide a unique opportunity for you to develop your professional and research skills in an international environment.

EXTRACURRICULAR CLASSES

Evening classes in Arabic, Brazilian Portuguese, French, German, Italian, Japanese, Korean, Mandarin Chinese, Russian and Spanish at various levels, as well as a wide variety of humanities topics, are currently available in our Centre for Languages, Culture and Communication. Piano, violin and singing lessons are available in the Blyth Centre, as well as ten music practice rooms which are bookable free of charge. Please note a charge applies for classes and lessons.

Find out more: www.imperial.ac.uk/schools

Damian Phelan is a graduate of Imperial’s INSPIRE programme.
Careers support and advice

A postgraduate degree from Imperial will provide you with an excellent foundation for your future – and the Careers Service is here to help you prepare for it.

PROFESSIONAL CAREERS GUIDANCE
All students from the Faculties of Engineering, Natural Sciences and Medicine have access to a wide range of support from our Careers Service, ranging from one-to-one sessions with a professional careers consultant to daily skills seminars that are tailored to meet the different stages of the recruitment cycle. And don’t worry if your career plans change after you graduate – you can continue to use our full range of services for up to three years. Business School students and alumni have access to their own Careers and Professional Development Service, with tailored resources and skills sessions.

CAREERS RESOURCES
The Careers Information Room is an excellent starting point for researching your options, with a team of staff on hand to help you. The Careers Service website also has an extensive collection of resources, including psychometric practice tests, downloadable careers talks, online careers libraries and useful tips and videos covering every aspect of the recruitment process.

Average starting salary of graduates with an Imperial postgraduate Master’s degree

£36,074

Average starting salary of graduates with an Imperial postgraduate research degree

£36,135

Find out more:
www.imperial.ac.uk/careers

CAREER DEVELOPMENT FOR PHD STUDENTS
PhD students have access to a tailored programme of career development activities. This includes a series of workshops and skills seminars, PhD and career sector forums, a dedicated careers fair, an alumni mentoring scheme, employer-led workshops and business activities to develop your commercial awareness.

ACCESS TO EMPLOYERS
The quality of our graduates and our central London location make Imperial one of the UK universities most targeted by graduate employers.

We organise a year-round programme of employer events and activities to capitalise on our location, including drop-in recruiter-in-residence sessions, company presentations, careers lectures and weekly skills workshops, industry sector forums, mock interview sessions and seven annual careers fairs. These activities are a chance for you to learn more about different professions, hone your skills for interviews and assessment centres, and meet leading recruiters face to face.

JOBS, INTERNSHIPS AND PLACEMENTS
We publish around 4,000 vacancies a year for full- and part-time jobs, placements and internships through our online vacancy service, JobsLive.

If you need help finding an internship then you can contact our Placement and Internship advisers for guidance. Our Charity Insights initiative gives PhD students the chance to apply for a bursary to complete a four-week internship with a charity or statutory body.

The Careers Service organises a range of employer events throughout the year, giving you access to hundreds of potential employers on campus.
A culture of innovation

If you’re considering a future as an entrepreneur starting up a new business, or you’re a budding innovator aiming to join an existing one, you’ll have every opportunity to develop the knowledge, skills and experience you need to put your ideas into action.

**IMPERIAL ENTERPRISE LAB**
The first port of call for students with an enterprising idea is our Enterprise Lab. The team can connect you to any advice, facilities, initiatives and training you need from across the College. You will also find lots of support to help you make your idea a reality:

- Imperial College Advanced Hackspace enables you to turn your ideas into physical prototypes, with free access to a network of facilities across our campuses, as well as regular hackathons and workshops.
- The Invention Rooms at our White City Campus offers access to workshop technologies and specialist prototyping and manufacturing equipment.
- The Althea-Imperial programme encourages female students with an enterprising idea through a series of exclusive development and mentoring opportunities.
- Climate-KIC’s Greenhouse is a special pre-incubation programme for students with a climate innovation idea.
- ACT Now! is Imperial College Union’s flagship development programme for social entrepreneurs, offering one-to-one support, skills development workshops and enterprise bootcamps.

**SKILLS WORKSHOPS**
The Graduate School delivers a wide range of free enterprise skills courses and workshops for PhD students, covering topics such as idea generation, business models, marketing your research and social enterprise.

**COMPETITIONS**
We run a series of competitions where you can win up to £10,000 of prize money to help fund your ideas, including Dragon’s Den style competitions and the Venture Catalyst Challenge.

**ENTERPRISE SOCIETIES**
Our enterprise societies are a great place to meet potential collaborators, get inspiration and use your enterprise skills for good. Examples include:

- E.quinox, a humanitarian organisation working to bring cost-effective and renewable energy to developing countries
- Imperial Entrepreneurs, a launchpad for the next generation of technology entrepreneurs
- the Imperial App society, facilitating environmental transformation through the development of new apps
- Enactus, which runs a wide variety of social enterprise projects that span the globe

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**SUCCESS STORIES**

**Virtual reality firm**
Improbable, co-founded by Imperial graduate Peter Lipka, has been valued at $1 billion. It uses cloud-based distributed computing to enable the creation of virtual worlds for games and massive-scale simulations of the real world.

**Imperial alumnus Malav Sanghavi**
won the prestigious Vatican Youth Symposium with his cardboard neonatal incubator. Intended for use in the developing world, he developed the incubator while studying at the College with the help of a grant from our Advanced Hackspace.

**Imperial team Motion Metrics**
has created a device to help skiers track their performance. After securing an investor at our Venture Catalyst Challenge, the team won £15,000 in the Santander Universities Entrepreneurship Awards.

**Medical student Olivia Ahn**
won £10,000 of funding in the Althea-Imperial programme for her leak-proof, biodegradable and organic menstrual pad design. She is also developing a machine-learning app to help women better track and predict their periods.

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Gravity Sketch is an app launched by a team of Imperial alumni that aims to simplify the process of 3D design and printing.

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Find out more: www.imperialenterpriselab.com
A global alumni network

Your relationship with the College does not end when you graduate. As an Imperial alumnus, you will join a vibrant community of over 190,000 former students in 200 countries.

It’s a community that includes prestigious prize winners, inventors, business leaders, scientists, engineers, doctors, journalists, researchers and entrepreneurs – united in their shared experience of studying at one of the best universities in the world. Imperial provides lots of support to keep that sense of community alive, from exclusive perks and events to an alumni email address that makes it easy to stay in touch wherever you may be in the world.

Find out more: www.imperial.ac.uk/alumni

A lifetime of benefits

When you leave Imperial, you will be welcomed into a new community of former students, with access to a range of special events and benefits. These include networking opportunities and full access to the Careers Service for up to three years after graduation, as well as discounts on further study.

The Alumni Weekend at the Imperial Festival is the College’s flagship event for alumni. In 2017, over 1,000 alumni and their guests came back to campus for special reunions and tours.

Our global network of alumni groups and associations can help you make professional and social connections.

1 The Alumni Visitor Centre on our South Kensington Campus provides an exclusive space for visiting alumni to relax, meet friends and colleagues, and catch up with the latest College news.
2 A networking event for Mathematics alumni.
3 Recent graduates return to campus to hear an exclusive presentation from a Science Museum curator.

Alumni connect with the Imperial community at a reception in Paris.
Alumni gather at a reception hosted by Imperial’s President, Professor Alice P. Gast, in Frankfurt.
The soaring presence of the Queen’s Tower at our South Kensington Campus is a reminder of the College’s history and heritage.

For our students, it plays a more everyday role as a place to meet, to catch up with friends and to soak up the sun on the steps, flanked by the two stone lions that stand guard at its base.
Study environment

We were ranked top or joint-top for providing an environment conducive to producing ‘world leading’ or ‘internationally excellent’ research in all of the Research Excellence Framework Units of Assessment to which we made submissions. So, no matter where you’re based, at Imperial you’ll be entering an environment designed for success.

Our main teaching base is a site where engineers work alongside clinicians, scientists collaborate with designers and mathematicians rub shoulders with business experts. It’s a place where cutting edge facilities have transformed the interiors of our buildings; and the sharing of knowledge, ideas and experience does not just happen in the classroom or the lab, but also in conversations in the Senior Common Room, over a drink in the h-bar (reserved for postgraduate students and staff) and at cross-faculty events organised by the Graduate School.

There is plenty on campus to stimulate the thought processes. But the wonder of our South Kensington location, which Prince Albert’s nineteenth-century vision transformed into a centre for science, technology and the arts, is that we’re surrounded by so many other inspiring organisations. This includes three world class museums (the Natural History Museum, Science Museum and V&A Museum).

For more information about our neighbourhood, known locally as ‘Albertopolis’, see our aerial photograph over the page.
Imperial and its neighbours are the beating heart of ‘Albertopolis’, the realisation of Prince Albert’s nineteenth-century vision for an area where science and the arts would come together. More than 150 years of history have done nothing to diminish this legacy: today, engineering meets design in our double Master’s degrees with the Royal College of Art; taxonomy meets biodiversity in our joint Master’s course with the Natural History Museum; while the neighbouring Royal Albert Hall ensures all of our students see their time at Imperial come to a spectacular close by hosting all of our graduation ceremonies.

**LIVE, LEARN, BE INSPIRED AND ENTERTAINED ALL IN ONE PLACE...**

Imperial and its neighbours are the beating heart of ‘Albertopolis’, the realisation of Prince Albert’s nineteenth-century vision for an area where science and the arts would come together. More than 150 years of history have done nothing to diminish this legacy: today, engineering meets design in our double Master’s degrees with the Royal College of Art; taxonomy meets biodiversity in our joint Master’s course with the Natural History Museum; while the neighbouring Royal Albert Hall ensures all of our students see their time at Imperial come to a spectacular close by hosting all of our graduation ceremonies.

**FREE**

**SOAK UP THE SUNSHINE...**

in Hyde Park and Kensington Gardens, two of the city’s eight Royal Parks. The former regularly hosts major live music and sporting events while the latter is home to the Serpentine Gallery, displaying modern and contemporary art.

**7 minutes**

**ENJOY PERFORMANCES...**

by some of the world’s finest artists in the stunning Royal Albert Hall, where all Imperial students also graduate. The Proms is one of the highlights in the calendar, with standing places available for as little as £6.

**5 minutes**

**FEED YOUR SPIRIT OF ADVENTURE...**

at events at the Royal Geographical Society.

**4 minutes**

**LEARN GERMAN...**

from scratch or build on existing skills in classes at the Goethe-Institut.

**3 minutes**

**FREE**

**EXPLORE SCIENCE THROUGH THE AGES...**

in the Science Museum, with the original model of DNA and the Apollo 10 command module among the displays.

**3 minutes**

**FREE**

**EXPLORE THE FUTURE OF DESIGN...**

at the annual graduate show for our two unique double Master’s degrees in engineering design, run jointly with the Royal College of Art. Past projects include a pop-up micro factory and an eye-tracking camera.

**6 minutes**

**FREE**

**TAKE A BALLET CLASS...**

at the English National Ballet, catering for all levels, with concessions available for students.

**5 minutes**

**FREE**

**ENTER THE WORLD OF MUSIC...**

through the Royal College of Music’s event series.

**4 minutes**

**FREE**

**SEE NATURAL HISTORY COME TO LIFE...**

in the award-winning Natural History Museum, home to around 70 million specimens, including some collected by Darwin.

**4 minutes**

**FREE**

**ENJOY ART SPANNING 3,000 YEARS OF HISTORY...**

in the world’s largest museum of decorative arts and design, the Victoria and Albert Museum (V&A).

**4 minutes**

**FREE**

**LEARN GERMAN...**

from scratch or build on existing skills in classes at the Goethe-Institut.

**3 minutes**

**FREE**

**EXPLORE SCIENCE THROUGH THE AGES...**

in the Science Museum, with the original model of DNA and the Apollo 10 command module among the displays.

**3 minutes**

**FREE**

**EXPLORE THE FUTURE OF DESIGN...**

at the annual graduate show for our two unique double Master’s degrees in engineering design, run jointly with the Royal College of Art. Past projects include a pop-up micro factory and an eye-tracking camera.

**6 minutes**

**FREE**

**TAKE A BALLET CLASS...**

at the English National Ballet, catering for all levels, with concessions available for students.

**5 minutes**

**FREE**

**ENTER THE WORLD OF MUSIC...**

through the Royal College of Music’s event series.

**4 minutes**

**FREE**

**SEE NATURAL HISTORY COME TO LIFE...**

in the award-winning Natural History Museum, home to around 70 million specimens, including some collected by Darwin.

**4 minutes**

**FREE**

**ENJOY ART SPANNING 3,000 YEARS OF HISTORY...**

in the world’s largest museum of decorative arts and design, the Victoria and Albert Museum (V&A).

**4 minutes**

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**3 minutes**
White City Campus is our major new campus in west London. It’s an on-going development which provides a base for researchers, businesses and partners to work alongside each other to drive forward new ideas, new technologies and innovations for the benefit of society on a local, national and global scale.

Students from the Department of Chemistry will be among the first to take advantage of the site. The new Molecular Sciences Research Hub will be home to the Department’s research and a base for its postgraduate research student community. Expected to open in 2018, it will provide a new way of working for up to 800 molecular scientists, clinicians, engineers and commercial partners.

The new campus also allows us to expand the facilities and support we offer our student entrepreneurs. The Invention Rooms, opening in 2017, will contain an advanced hackspace for members of the College, and a mixture of workshops and interactive spaces where members of the local community can connect with the College’s research through a series of programmes and activities. The I-HUB, our new translation and innovation hub, is already open and providing a place for start-ups and major technology partners to work alongside members of our academic community and gain access to laboratories, incubators and flexible workspace.

Find out more:
www.imperial.ac.uk/silwoodparkcampus

SILWOOD PARK, ASCOT

Students of ecology, evolution and conservation biology will find that the grasslands, marshland, woods and lake of our Silwood Park Campus have plenty to offer.

Located approximately 25 miles west of central London in the village of Sunninghill, near Ascot in Berkshire, our 150 academic and research staff and 160 full-time postgraduates make up a close-knit community of scientists who enjoy ecological field and laboratory facilities, lecture theatres, sports facilities, and a natural sciences library specialising in ecology, evolution, biodiversity, conservation, plant and animal biology, and entomology. There are also five halls of residence on site (see page 46).

The campus Students’ Union and committee within the halls of residence organise a wide range of sports and social events throughout the year, including an annual music festival, Silfest.
STUDY RESOURCES

As a postgraduate student you will spend much of your time studying independently. But that doesn’t mean working in isolation without access to help.

Our study resources are set up with you in mind – to make sure that you not only have access to first-class materials and facilities that you need to advance in your studies, you also have the support required to make the most of them.

LIBRARY SERVICES

The Central Library at South Kensington is the primary home for our print collections and is open 24 hours a day (except Friday 23.00–Saturday 10.00) almost all year round. The long opening hours make it a popular place to study, with computers and wi-fi throughout the building; silent, quiet and group study areas; bookable rooms for project work and presentation practice; and a café serving food until late. You can borrow up to 40 items at any one time, with automatic renewals to help you stay on top of your loans.

Training and support

Our library team are on hand to recommend the best information resources, deliver one-to-one or group training sessions to develop your search skills, and provide advice and guidance on publishing, copyright and plagiarism. We also have subject librarians for every department to provide tailored help and support with research relevant to your subject area. Disabled students can access dedicated services including longer book loans, specialist software and one-to-one sessions.

Campus libraries

There are smaller specialist medical libraries at the Charing Cross, Chelsea and Westminster, Hammersmith, Royal Brompton and St Mary’s Campuses. Each library has books relating to general medicine, as well as its own specialist collection, covering areas such as:

- Medical ethics
- Neuroscience
- Psychiatry
- AIDS
- Emergency medicine
- Plastic surgery
- Paediatrics
- Radiology

Silwood Park Campus has its own life sciences library, specialising in ecology, evolution, biodiversity, conservation, plant and animal biology, and entomology.

IT SUPPORT

Our Service Desk offers year-round support and advice for students experiencing IT problems, from accessing email to using printers. Our Tech Store also provides free and discounted software, including free Microsoft Office 365 software for all students.

Find out more:

www.imperial.ac.uk/library

www.imperial.ac.uk/ict
We encourage all of our students to dive into life on campus. We offer a huge range of organised activities that are designed to inspire, educate, challenge and enrich, as well as giving you an outlet to take a break and have fun away from your studies.

A student braves the bungee on campus as part of Raising And Giving (RAG) week to raise money for charity.
Work hard, play hard

The pace and intensity of postgraduate study at Imperial can be demanding so it's important to find time for outside interests. Our choice of around 350 student-led clubs, societies and projects is one of the largest of any UK university, opening up lots of new ways for you to enjoy your downtime.

**IMPERIAL COLLEGE UNION**
Our students are the creators of life on campus; Imperial College Union is there to help it happen by providing funding, representation, support and space in its dedicated building on our South Kensington Campus. Our postgraduates enjoy their own representation through our Graduate Students’ Union (GSU) and Academic and Well-being Representation Networks, as well as access to hundreds of student-led clubs, societies and projects, an independent Advice Centre and a student media centre.

**SPORT AND FITNESS**
The aim of sport at Imperial is to be as inclusive as possible. We’ve got no shortage of elite athletes, with our competitive clubs collectively achieving first place in London in the British Universities and Colleges Sport (BUCS) leagues 2016–17. Equally important is our range of recreational sporting activities, including mass participation events, our drop-in Impetus programme, and our Give it a Go scheme. Students simply looking to keep fit have free access to gym* and swimming facilities across all our campuses, including at our flagship sports centre Ethos, which is also home to a year-round programme of exercise classes.

If you are aspiring to be, or already are, competing at a national or international level you may be eligible for a sports scholarship to help you continue performing at the highest level.

**THE ARTS**
With four orchestras, six choirs, a wind band and a jazz big band as well as a lunchtime concert series featuring world class performers, Imperial’s extracurricular music opportunities are the envy of many universities. You’ll have plenty of space to refine your talents with ten music practice rooms available free of charge. Artists benefit from free art workshops, an art studio and an on-site gallery to display their work. Drama is also well served, with two drama societies welcoming performers and behind-the-scenes volunteers.

**VOLUNTEERING**
It’s not just through our research that we engage with the world beyond Imperial; our students also have a strong record for making a difference both in the local and global community. The Union’s Community Connections volunteer service partners with over 150 external organisations to offer hundreds of volunteering opportunities, from tutoring in schools to community-based projects. Leadership opportunities also abound, challenging you to find new ways to respond to the needs of the community or to encourage your fellow students as the leader of an existing club, society or project.

* A one-off fitness orientation fee applies (£40 in 2017–18) before you can use our high-spec gym equipment. Once completed, you can use the gym at any of our campuses for free.
Supporting our students

We are focused on creating an environment where our postgraduate students can reach their full potential.

So when it comes to your health and well-being, we invest in support at every level to take you from strength to strength.

DEPARTMENTAL SUPPORT
Every department has a comprehensive system of academic and pastoral care, including:
- your course director (for taught students) or academic supervisor (for research students), who will be your primary point of guidance and support throughout your time here;
- a dedicated Postgraduate Tutor and Director of Postgraduate Studies, who are responsible for the overall smooth running of your department’s postgraduate teaching and research;
- a personal tutor (for Master’s students on larger courses) and members of your research group (for research students); and
- a dedicated Departmental Disability Officer for disabled students.

You have the power to make real change to your academic experience by providing feedback via the representative for your course or department, elected each year from amongst the student body.

COLLEGE-WIDE SUPPORT
The academic and pastoral support provided by your department is complemented by a College-wide support network.

Personal support
There are a number of people you can approach for confidential support and practical guidance, including independent advisers in Imperial College Union’s Advice Centre.

Counselling and mental health advice
The Student Counselling and Mental Health Advice Service offers short-term individual counselling to all registered students, as well as Life Skills workshops. The service is free and confidential. It’s also possible to be referred to Student Mental Health Advisers or Study Mentors: Mental Health for advice and further support.

Healthcare
We have an NHS Health Centre and Dental Surgery at our South Kensington Campus providing a range of services; students living outside the registration area are advised to register with a local GP.

Multi-faith Centre
Our multi-faith Chaplaincy in South Kensington has Chaplains from many different religions, as well as prayer rooms and information on places of worship, to support your spiritual and religious life. The Centre also runs mindfulness meditation classes and offers one-to-one support for personal and faith concerns.

Disability Advisory Service
Disabled students and those with a specific learning difficulty or enduring health or mental health condition can access confidential advice and tailored teaching and learning support from our Disability Advisory Service. We encourage you to contact us in advance to discuss your needs: disabilities@imperial.ac.uk

Students with children
The Early Years Education Centre at the South Kensington Campus provides 140 places for children aged six months to five years. Part-time places are available and you may be able to access financial help towards the costs. Please note, a waiting list applies.

STUDENT HUB
The Student Hub brings together many of our key support services in one place on our South Kensington Campus, including: accommodation, admissions, exam arrangements, exchange programmes, student financial support and tuition fees, student records, visas, and well-being.

INTERNATIONAL STUDENT SUPPORT
Dedicated support
Our International Student Support team provides support for all our international students. This includes a year-round programme of social events and trips to help you settle into life in the UK. You will also benefit from a supportive social network of over 45 international and cultural societies within Imperial College Union.

Visa and immigration advice
Our trained advisers can provide expert advice on a wide range of visa and immigration issues, including extending your visa to continue your studies in the UK and working in the UK after you graduate (see page 64).

English language support
Our Centre for Academic English provides free language support while you’re studying, to improve your English in both an academic and social context (see page 65). Classes are held at our South Kensington and Hammersmith Campuses.
Living in London

Students come from all over the world to study in London – and the city thrives on the diversity that this brings. Home to over 300 languages and people of all different cultures, faiths and backgrounds, London is a place for everyone.

LIFE IN THE CAPITAL

If you want a student experience unlike any other then London has plenty to offer. It’s home to world famous theatre, a huge range of iconic music venues and sporting arenas, over 250 festivals per year, restaurants offering cuisine from around the globe and a wealth of historical and cultural attractions.

And with a wide variety of student discounts available, and many of the city’s top attractions free to enjoy, living on a student budget doesn’t have to mean sacrificing your social life!

1st

London is the UK’s best student city and third best in the world

QS Best Student Cities ranking 2017

... being at the heart of a global business community, with lots of opportunities to engage with employers – the reputation of our graduates came in the top ten in a worldwide employer survey.

QS World University Rankings 2018

... you are ideally placed to attend interviews, undertake internships and start building a network of useful business contacts at events and company presentations that could be invaluable to your career.

... opportunities to attend public events run by professional societies which have their headquarters in London, including the British Medical Association and the Royal Society.

... being immersed in a dynamic culture of enterprise and innovation, drawing inspiration from world class institutions such as the Natural History Museum, Science Museum and British Library.

No.1

London retained the top spot as a centre for business, innovation and culture

PwC’s Cities of Opportunities Index 2016

Find out more:
www.imperial.ac.uk/study/living-in-london
Accommodation

Whether you prefer accommodation that’s been designed with postgraduates in mind or you are considering London’s huge range of private housing options, we can help you find a home that’s right for you.

POSTGRADUATE HALLS OF RESIDENCE

GRADPAD
Gradpad accommodation has been designed exclusively for postgraduate students, with halls in two Central London locations:
- Griffon Studios – Battersea
- Wood Lane Studios – White City

Both halls offer self-contained studio apartments and a range of communal facilities, all within easy reach of public transport.

COLLEGE ACCOMMODATION AT SILWOOD PARK
Students studying at our Silwood Park Campus in Ascot can choose from single and couples accommodation in one of Imperial’s five halls of residence.

ACCESSIBLE ACCOMMODATION
Accessible accommodation is available at both GradPad and Silwood Park – contact our Disability Advisory Service at disabilities@imperial.ac.uk.

Get information on facilities, current prices and 360° tours, and find out how to apply:
www.imperial.ac.uk/study/campus-life/accommodation/halls/pg

PRIVATE ACCOMMODATION

London has a wide range of privately rented housing available, but don’t panic if you don’t know where to start as Imperial’s Student Hub team can provide plenty of advice and support, including:
- a Private Housing Guide, with hints and tips on house hunting
- lists of estate agents’ properties
- detailed advice on tenancy agreements
- area guide and postcode maps
- details of estate agents, hostels and hotels
- annual housing events to assist with your search

PROPERTY SEARCH WEBSITE
We run a property search website exclusively for Imperial students. Use Imperial Home Solutions to search for properties and create your own shortlist. You can also connect with potential flatmates via the message board, and access a wide range of housing advice to help you in your search.

www.imperialhomesolutions.co.uk

Popular areas to live

Find out more:
www.imperial.ac.uk/accommodation/privatehousing
YOUR STUDY OPTIONS

Imperial offers many different postgraduate study options. Which route is right for you will depend on a number of factors, including the level of degree you currently hold, which subject you are interested in and your career goals.

This section outlines some of the typical study routes you can follow, with examples of the careers that former students have gone into. As an Imperial degree is highly valued by all kinds of employers across the world, these are provided as a guide only.
Most of our Master’s courses are available on a full-time basis and normally last 12 months with little break. There are also some two- and three-year part-time courses (see pages 70–109).

All courses include a taught programme of lectures, seminars, and labs (if appropriate to your subject). You will also have the chance to master new techniques and skills by completing a significant piece of research.

**SOME OF OUR GRADUATES…**

**Alumni include:**
- R&D engineer
- Marine conservationist
- Clinical trials manager
- Research technician

**Dr Murphy Westwood**
MSc Taxonomy and Biodiversity 2004
Director of Global Tree Conservation at the Morton Arboretum in Chicago, USA

**Juliya Ajude**
MSc Petroleum Engineering 2009
Senior Production Engineer at Statoil, optimising production from oil and gas wells in the Norwegian continental shelf

**POSTGRADUATE CERTIFICATES (PG Cert) AND DIPLOMAS (PG Dip)**

What → Full- or part-time courses which can be taken on their own or, in some cases, can be used to build towards an MSc. A PG Certificate has a credit value of at least 30 ECTS and typically involves nine months’ part-time study. A PG Diploma is similar but typically lasts two years part-time and therefore has a credit value of at least 60 ECTS. See our course list on pages 110–114 to find out where these are available.

**MASTER OF RESEARCH (MRes)**

What → A research-oriented route offering greater independence of learning and increased specialisation for those intending to undertake extensive research. It includes a substantial research project accounting for at least 50 per cent of the programme, and provides a good foundation for doctoral study or a research career.

Career path → Further research either as a research assistant or PhD student. Many of our courses are science-based and therefore lead to scientific positions.

Alumni include:
- R&D engineer
- Marine conservationist
- Clinical trials manager
- Research technician

**MASTER OF SCIENCE (MSc)**

What → Provides in-depth training in a specialist subject as well as an opportunity to hone your expertise and develop your research and/or technical skills. It combines taught material with an element of independent research, normally assessed in the form of a substantial dissertation or report.

Career path → Very flexible, providing the foundation for specialisation or diversification into a different sector/industry. Also often the route onto a graduate training programme or into a more specialised role.

Alumni include:
- Formula 1 aerodynamicist
- Senior research associate
- Digital marketing specialist
- Genetic technologist
- Nuclear engineer
- Ecologist
- TV researcher

**MASTER OF BUSINESS ADMINISTRATION (MBA)**

What → For people in a demanding job who want to accelerate or change their careers. Available within Imperial College Business School as a full-time, online and weekend-only programme.

Career path → Requires three or more years’ prior work experience. The Imperial MBA is ideally suited to those with a strong specialised or technical background, now seeking to progress into strategic and leadership roles.

Alumni include:
- Global sourcing manager
- Strategy consultant
- Investment director
- Risk analyst
- Structural engineer

**MASTER OF PUBLIC HEALTH (MPH)**

What → Combines taught material with a compulsory dissertation and placement as a public health professional. Includes a specialist stream in global health for students who want to understand the health, economic, political, social and biomedical challenges and innovations associated with poor health worldwide.

Career path → Public health practice and related fields.

Alumni include:
- Medical educator
- Public health intelligence analyst
- Policy advisor

**MASTER OF EDUCATION (MED)**

What → Founded in research but also includes taught material and a compulsory dissertation. At Imperial, the MED is offered in Surgical Education.

Career path → Progression in an established career in the field.

Alumni include:
- Surgical registrar
- Consultant anaesthetist
- Doctor
- Medical researcher

**MASTER’S QUALIFICATIONS**

Most of our Master’s courses are science-based as a research assistant or PhD student.

You will also have the chance to master new techniques and skills by completing a significant piece of research.

**What** → Combines taught material with a compulsory dissertation and placement as a public health professional. Includes a specialist stream in global health for students who want to understand the health, economic, political, social and biomedical challenges and innovations associated with poor health worldwide.

**Career path** → Public health practice and related fields.

**Alumni include:**
- Medical educator
- Public health intelligence analyst
- Policy advisor

**Alumni include:**
- Doctor
- Consultant anaesthetist
- Surgical registrar
- Doctor
- Medical researcher
MASTER’S STUDY: WHAT TO EXPECT

STUDY INTENSITY
The pace of Master’s study is usually significantly faster than undergraduate study, requiring a commitment to a sustained period of work right from the start. Most postgraduate students feel under time pressure at some point. This is normal and is a reflection of the intensity and amount of work undertaken. The Graduate Students’ Union and the Graduate School organise lots of events throughout the year to help you maintain a good work–life balance.

As well as attending lectures and seminars, you will be expected to undertake more directed background reading and to arrive at solutions for yourself. The success of your experience will rely on your ability to set your own study targets and motivate yourself. But greater independence doesn’t mean you’ll be on your own – we also have a comprehensive network of academic and pastoral support in place to help you get the most out of your experience.

TEACHING STYLE
Master’s level study involves learning new technical skills and requires you to think about concepts and methods more deeply and critically. You will still attend lectures, seminars and labs (if appropriate to your subject). However, you will be expected to spend much of your time working independently or in groups, and group work may form part of your assessment.

Your lecturers will teach on the course, give you reading lists, make support materials available, set practicals, formal and less formal assessments, offer research projects (although for some courses you may be expected to develop your own ideas), and give you feedback on your progress in various ways. You need to take these opportunities and shape them to your own needs and interests.

RESEARCH PROJECT
We place great emphasis on the integration of our Master’s level courses with our world class research. Your degree will normally include a significant piece of research that will be submitted as a report or dissertation. You may also undergo an oral examination (viva voce) on your work. MRes students may undertake more than one project, with this component accounting for more than 50 per cent of the final degree award.

The quality of your own understanding, thinking and initiative are very important in the research project. You will pose questions and seek answers by using and applying techniques and research skills, analysing data and reviewing literature.

On most courses there is a period of several months with little scheduled teaching when the bulk of the research project is carried out, requiring you to plan your time effectively.

Your project will normally be supervised by an academic member of staff. However, they may delegate some of the day-to-day supervision to a member of their team, such as a PhD student, who can give you more practical advice.

TRAINING AND SUPPORT
Your course director, personal tutor (for larger courses) and lecturers are the first point of contact for help and support in your studies. They can, for example, set up additional study opportunities such as extra reading, teaching or online study. We also encourage you to take advantage of training opportunities like the Graduate School’s MasterClass programme. These courses are specifically designed to develop the personal and professional skills of Master’s students (see page 20). The Library also offers one-to-one and group training sessions (see page 36).

Every department has a staff–student committee, where elected representatives from the student body have input into the teaching that takes place within the department. We also have a College-wide support network to look after your general well-being (see pages 42–43).

All new students are invited to attend Welcome Week at the start of the academic year. This includes a programme of activities, talks and events for postgraduates to introduce you to College life, current students and staff.

DOING PAID WORK WHILE STUDYING
Our degrees are very demanding so we recommend that full-time students do not work during term time. If this is unavoidable (and your visa permits it), we advise you to work no more than 10–15 hours per week, which should be principally at weekends.

For information on funding your studies, including the Postgraduate Loans for Master’s study, see pages 68–69.
Research qualifications

The most common type of research programme is the PhD. The majority of our academic departments offer PhD opportunities. We also offer a new way of training PhD students through our Research Council-funded PhD training centres (see pages 16–17).

Medically qualified professionals who are looking to make a unique contribution to the knowledge in their clinical speciality may be interested in our MD(Res) qualifications.

**SOME OF OUR GRADUATES...**

**Dr Lesley Drake**  
**PhD Epidemiology 1993**  
Executive Director, Partnership for Child Development; Deputy Director, London Centre for Neglected Tropical Diseases

**Dr Veronika Bray**  
**PhD Planetary Science 2009**  
Science team member of NASA’s New Horizons and Cassini missions; Targeting Specialist for NASA’s HiRISE Camera

**Dr Gareth Davies**  
**PhD Physics 1994**  
CEO of Kwiziq.com, a software programme that uses artificial intelligence to teach languages

**Dr Ning Chen**  
**PhD Chemical Engineering 2012**  
Founder of Promegene, which offers gene sequencing technology services to hospitals

**Dr Veronica Bray**  
**PhD Planetary Science 1999**  
Science team member of NASA’s New Horizons and Cassini missions; Targeting Specialist for NASA’s HiRISE Camera

**Dr Jing Chen**  
**PhD Chemical Engineering 2012**  
Founder of Promegene, which offers gene sequencing technology services to hospitals

**PhD**

**What** → This is the most common kind of research programme. Normally it takes three years full-time to complete. The majority of this time is spent carrying out original research.

Most Imperial PhD students attend the College on a full-time basis. However, some choose to attend part-time, involving one to three days of study per week. The study period is intensive and involves a series of milestones of progression, which you must meet along the way (see page 57).

**Career path** → Extremely diverse, both within and outside academia. Often followed by further research as a postdoctoral researcher within a university.

**Split PhD scheme**

Under the Split PhD scheme you may be permitted to carry out some of your research abroad, either in the field or at an overseas institution. Arrangements are normally confined to institutions with which the College has established links and in cases where the research problem requires local field work, for example, the study of a particular aspect of geology or biology. If your proposal for a Split PhD is approved, you will be required to be in physical attendance at the College for a minimum of 12 months out of the normal 36 months duration of a PhD programme.

**Partner Research Institution (PRI) scheme**

If you work in a public research institution, industrial research laboratory or at another university then you may be able to register for a PhD at Imperial but carry out the research where you work, under our Partner Research Institution (PRI) scheme.

You should expect to spend at least two months per year at the College and the qualification is awarded by Imperial only. One of our major PRI schemes is with Singapore’s Agency for Science, Technology and Research (A*STAR), which involves two years of study in Singapore and two years in London.

**EngD**

**What** → A four-year research degree of similar standing to a PhD. Most of your time (50–75 per cent depending on the project) is usually spent on an industrial placement, undertaking research on behalf of your host company. You also spend around nine months taking advanced technical and managerial courses.

**MD(Res)**

**What** → Aimed at clinicians. Often shorter and more focused on clinical research than a PhD.

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1. The experimental rooftop garden at Eastside hall of residence was created in April 2014. The team is carrying out research to test the effectiveness of green roofs in terms of reducing temperature and managing rain water runoff.

2. So much data is generated by experiments at the Large Hadron Collider in Geneva that CERN has chosen to spread the workload to computing centres and researchers around the world, including at Imperial.
YOUR STUDY OPTIONS

RESEARCH PROGRAMMES: WHAT TO EXPECT

Choosing a research programme means embarking on one of the most intensive study experiences of your academic career so far. Working largely independently, under the supervision of our experts, you’ll be focused on making new discoveries and contributing new knowledge in your chosen field.

OUR RESEARCH APPROACH

We place a lot of importance on working across subject boundaries and the need to establish peer groups across departments. To help with this, we organise a range of development activities that bring together students from across the College.

As a global university with many international partners, we can offer you the chance to develop global research skills via our Global Fellows Programmes, which give you the chance to collaborate with peers from our partner institutions.

All of our research programmes are supported by an integrated programme of professional development, to ensure you develop as a well-rounded researcher and gain the skills and experience you need to successfully complete your degree and move forward in your career (see pages 20–21).

We work hard to ensure you have access to both academic and pastoral support throughout your time here, both at departmental level and College-wide (see pages 42–43).

PLANNING YOUR TIME

If you’re studying full-time, you should aim to complete your PhD in 36 months and submit your thesis for examination no later than 48 months from the date of initial registration.

Early stage (0–9 months)

At nine months you will undertake an assessment involving the submission of a written report and an oral examination on that report. The Graduate School provides training in key skills such as presenting, statistics, writing and personal effectiveness that will help you prepare.

Mid-stage (9–18 months)

You will continue with your programme of research and undertake further professional skills training.

Late stage (18–24 months)

You will undertake a late-stage assessment, conducted by your department, to see whether you have a realistic research plan in place for successfully completing the programme.

Throughout the programme you will take a full part in academic life, attending seminars and presenting your research. You may also have the chance to attend national and international conferences.

YOUR THERESIS

The main activity of any research programme is to carry out an original research project under the direction of one or more supervisors, to be written up as a thesis. Your supervisor will read your thesis thoroughly and make constructive comments on both style and intellectual content before you submit it.

Your thesis will be examined by a minimum of two examiners: one from within the College and one from academia, industry or another profession. You will defend your work in an oral examination (viva voce).

The Graduate School provides training in both thesis writing and preparing for the viva.

TEACHING OPPORTUNITIES

Many PhD students are involved with the teaching, supervision and assessment of both undergraduate and Master’s students.

Working as a Graduate Teaching Assistant (GTA) enables you to broaden your knowledge base and gain communication and task management experience. To support our GTAs, the Graduate School and the College’s Educational Development Unit have developed a graduate teaching assistant training programme (STAR). STAR provides PhD students with the chance to obtain Associate Fellowship of the Higher Education Academy – a qualification increasingly sought by employers across the education sector.

These state-of-the-art facilities house some of the animals that the College works with to improve our understanding of the basic biology of infection, injury and chronic disease. Imperial believes that, in cases where no other alternatives exist, the use of animals in research is an essential step for finding new treatments and cures, and vital for improving human and animal health and welfare. Staff are trained to treat animals in the College’s care with the fullest respect and to show due consideration at every level.
We welcome applications from qualified students from around the world.

If you're considering applying to Imperial, use this section to find out more about the process of applying for Master's study or a research programme. You can also find information on funding from the College and external sources.
Applying for Master’s study

1. **CHOOSE A COURSE AND CHECK THE ENTRY REQUIREMENTS**
   Check our course tables (pages 70–109) to see our available programmes. This list may change during the year, so check our website for the most up-to-date options.

   The entry requirements in our course tables reflect the typical standards sought by departments for applicants with UK qualifications. Departments consider a range of factors, and where typical entry requirements are not met but an applicant has significant other relevant merits, achievements and/or experience, they may still submit an application. For guidance on the international qualifications we accept see: [www.imperial.ac.uk/study/pg/apply/requirements/pgacademic](http://www.imperial.ac.uk/study/pg/apply/requirements/pgacademic)

   For information on our English language requirements, and ATAS certificates for overseas applicants, see pages 64–65.

   PLEASE NOTE: the international entry requirements listed online are the College minimum – the requirements for individual departments may vary.

2. **APPLY ONLINE**
   All applicants must apply online at: [www.imperial.ac.uk/study/pg/apply/how-to-apply](http://www.imperial.ac.uk/study/pg/apply/how-to-apply)

   You can normally apply for up to two courses. Your first choice will be processed first. Your second choice will only be considered if your first-choice application is unsuccessful.

   You will need to upload documents with your application. These may include your CV, transcripts, degree certificates, relevant professional qualifications, evidence of your English language ability and contact details for two referees.

   Most courses don’t have a formal closing date, but will close when they are full, so you should apply as early as possible to avoid disappointment.

   We aim to process all applications within six to eight weeks but it may take longer during busy periods.

3. **ATTEND AN INTERVIEW**
   Depending on which course you are applying for, you may be invited to attend an interview. This could be in person or via Skype.

4. **TRACK YOUR APPLICATION**
   Once you have submitted your application, you will be able to track the progress of your application online. We will email you with details of how to do this.

   If we make you an offer of a place, you will be able to accept or decline it online. You will need to do this within the given time limit or we may withdraw your offer. If you wish to defer your place, you will need to send a written request to the appropriate admissions team.

5. **CONSIDER YOUR FUNDING OPTIONS AND PAY YOUR COURSE DEPOSIT**
   You should be aware of funding deadlines, particularly if you are planning to apply for any College awards. See pages 68–69 for more information about funding your studies, including the UK government’s Postgraduate Loans for Master’s study.

   Taught course and research Master’s offer holders need to pay a deposit as part of the offer condition(s). This will be deducted from the balance of your tuition fees.

   For help with your application email: admissions.enquiries@imperial.ac.uk

   PLEASE NOTE: A non-refundable fee applies to Imperial College Business School Master’s applications: £100 for MBA applications and £105 for MSc courses.
Research applications

The process of preparing a research application and searching and applying for funding can be a long one, so give yourself plenty of time to do a good job – ideally at least a year before you intend to start your programme.

1. SEARCH OUR STUDENTSHPES
   Each year we offer a number of funded research projects. These ‘studentships’ come with a named supervisor in a particular department, centre or institute. Before applying, we recommend reading extensively around the project to make sure it’s an area to which you can add value. You also normally have to gain the support of the supervisor before applying, so contact them in advance to introduce yourself and find out what’s expected of potential candidates.

OR

2. PROPOSE YOUR OWN RESEARCH PROJECT
   Many of our departments welcome year-round applications from suitably qualified candidates with their own research ideas:

   Identify a potential supervisor
   Your chosen department may expect you to gain support from a supervisor before applying – visit their website to identify potential supervisors and make sure their expertise fits with your ideas. Contact them directly to discuss your idea. They’ll want to know more about you, so it’s also appropriate to send your CV.

   Research proposal
   Your potential supervisor may ask you to formalise your idea as a research proposal. This should define a clear research question and explain how your work will contribute to and develop (or challenge) existing knowledge in the field. It’s important to tailor your proposal to the department you’re applying to, and be prepared to take the comments of your potential supervisor on board. For more general advice on how to write a good research proposal, see: www.findaphd.com/advice/finding/writing-phd-research-proposal.aspx

3. APPLY
   Our studentships normally have a fixed deadline, so you should make a note of these in advance. Other departments/schemes may restrict applications to particular times.

   You will need to upload documents with your application. These may include your CV, transcripts, degree certificates, relevant professional qualifications, evidence of your English language ability (see page 65) and contact details for two referees. Overseas students may need to apply for an ATAS certificate before they can apply for a Tier 4 visa (see page 64). All students should start looking for funding as soon as possible (see pages 68–69).

4. INTERVIEW
   Most departments interview applicants before making a decision on whether to offer you a place. This could be in person, or via Skype if it is not possible for you to visit the College.

5. TRACK YOUR APPLICATION
   Once you have submitted your application, you will be able to track the progress of your application online. We will email you with details of how to do this. If we offer you a place, you will be able to accept or decline it online.

6. REGISTER ONLINE
   If you accept an offer to study at Imperial, you will be able to register online after meeting all the conditions of your offer.

Search our studentships:
www.imperial.ac.uk/job-applicants/opportunities/phd-vacancies

All applicants need to apply online:
www.imperial.ac.uk/study/pg/apply/how-to-apply

www.findaphd.com/advice/finding/writing-phd-research-proposal.aspx
International applicants

If you’re considering applying to Imperial from overseas, additional entry requirements may apply. This includes the level of English language proficiency that you need to demonstrate.

APPLYING FOR A VISA

International students from outside the European Economic Area (EEA) or Switzerland usually need a Tier 4 (General) student visa to study in the UK. Our International Student Support team can provide up-to-date advice and guidance on applying for this visa before you travel to the UK. If family members (dependants) will be joining you, the team can help with their visa applications too.

This support continues when you’re here, with regular immigration updates and workshops covering a range of topics, such as extending your visa to continue your studies in the UK and working in the UK after you graduate. The team also provides support to help you settle into life in the UK, including a year-round programme of social events and trips.

ACADEMIC TECHNOLOGY APPROVAL SCHEME (ATAS)

Overseas students applying for a Master’s or research programme in certain subjects may be required to apply for an Academic Technology Approval Scheme (ATAS) certificate as a condition of their offer. If this applies to you, please ensure that you make the application as soon as possible as an ATAS application can take at least 20 working days to be processed. When issued, an ATAS certificate is valid for six months to use with your visa application. If you need an ATAS certificate and cannot provide one with your visa application, it will automatically be refused. Find out more about ATAS at: www.gov.uk/academic-technology-approval-scheme

ENGLISH LANGUAGE REQUIREMENTS

All Imperial applicants must prove that they have a sufficiently good level of written and spoken English to meet the demands of our challenging academic environment.

Applicants with a first degree taught in English and awarded by a university in Australia, Canada, Guyana, Ireland, New Zealand, South Africa, UK, USA or the West Indies (when studied in that country) will automatically satisfy the English language requirements for the majority of our programmes. All other students need to demonstrate their proficiency in English as part of the application process. For each test or qualification, you must achieve either the standard or higher College requirement – check our course tables (pages 70–109) to see which level is required for your chosen degree.

We accept a wide range of English language qualifications. We also accept test scores obtained via one of following:

**English language requirements**

<table>
<thead>
<tr>
<th></th>
<th>STANDARD</th>
<th>HIGHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>IELTS</td>
<td>6.5 overall</td>
<td>7.0 overall</td>
</tr>
<tr>
<td></td>
<td>(minimum 6.0 in all elements)</td>
<td>(minimum 6.5 in all elements)</td>
</tr>
<tr>
<td>Pearson</td>
<td>Academic (PTE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>62 overall</td>
<td>69 overall</td>
</tr>
<tr>
<td></td>
<td>(minimum 56 in all elements)</td>
<td>(minimum 62 in all elements)</td>
</tr>
<tr>
<td>TOEFL (iBT)</td>
<td>92 overall</td>
<td>100 overall</td>
</tr>
<tr>
<td></td>
<td>(minimum 20 in all elements)</td>
<td>(minimum 22 in all elements)</td>
</tr>
</tbody>
</table>

PLEASE NOTE Test scores are valid for two years from the date you take the test.

See the full list of accepted qualifications: www.imperial.ac.uk/study/pg/apply/requirements/english

ENGLISH LANGUAGE SUPPORT

The College’s Centre for Academic English runs 12-week and 6-week pre-sessional English courses for postgraduate applicants with an offer conditional on them meeting the English language requirement for their course. Passing the final assessment of either course satisfies the College’s English language requirement. We also run a 3-week pre-sessional course. This is for applicants who have already met our English language requirements but wish to extend their academic language and literacy before they start their degree.

The Centre also provides free English language support while you’re studying. This includes classes and workshops on academic language and language skills; one-to-one consultations with a tutor to work on a piece of your academic writing or an oral presentation; online self-study resources; and a language pair scheme (the Conversation Project) which partners you with a native speaker to practise your social and conversational English. Classes are available at our South Kensington and Hammersmith Campuses.
Funding your studies

Completing a postgraduate qualification at Imperial requires a sustained commitment to your studies right from the start. We recommend budgeting for student life well in advance to make sure that funding issues are not a barrier to you getting the most out of your experience.

Whether you’re considering Master’s or Doctoral study, there are two major costs to consider: tuition fees and living costs.

TUITION FEES
Our postgraduate tuition fees vary per course. You can find the fee for your course(s) of interest on our website, and in the course tables in this prospectus (see terms and conditions on page 115). For the latest updates on how the EU Referendum will affect EU students see: www.imperial.ac.uk/about/imperial-and-the-european-union

Course deposits
If we make you an offer of a place on a Master’s course at Imperial, you will need to pay a deposit as part of the offer condition(s). This will be deducted from your tuition fees.

www.imperial.ac.uk/study/pg/fees-and-funding/tuition-fees

LIVING COSTS
It can be costly to live in any big city, but with sensible planning it’s possible to enjoy London on a budget. The table below shows a rough guide to the amount you should expect to spend to live comfortably. Actual costs will vary according to your lifestyle and how good you are at sticking to a budget. It includes accommodation, utilities, food, travel within London, and personal/leisure costs, but does not include tuition fees or any extra course costs that may apply.

STUDENT DISCOUNTS
Your student card gives you access to all kinds of discounts, from cinema tickets and clothes to meals in restaurants. If you are studying full-time, and living solely with other full-time students, you will also be exempt from Council Tax. Full-time students can also get a 30 per cent discount on certain Transport for London season tickets and travelcards with an 18+ Student Oyster photocard. See: www.tfl.gov.uk/photocard

Approximate living costs

<table>
<thead>
<tr>
<th></th>
<th>WEEKLY</th>
<th>52 WEEKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accommodation and utilities†</td>
<td>£176</td>
<td>£9,152</td>
</tr>
<tr>
<td>Food†</td>
<td>£10</td>
<td>£1,600</td>
</tr>
<tr>
<td>Travel†</td>
<td>£27</td>
<td>£1,080</td>
</tr>
<tr>
<td>Personal and leisure†</td>
<td>£39</td>
<td>£2,028</td>
</tr>
<tr>
<td>Total</td>
<td>£292</td>
<td>£14,860</td>
</tr>
</tbody>
</table>

* Zones 1–3 with 18+ Student Oyster card. 52-week cost is based on the cost of an annual travelcard.
† Figures taken from a survey of Imperial students in 2016.

PhD student Elsa Sotiriadis’s research focuses on the development of a biotechnological screening system that will aid in the discovery and evaluation of new, more effective and affordable compounds for cancer therapy and research.
MASTER’S FUNDING

POSTGRADUATE LOAN FOR MASTER'S STUDY
Home and EU Master’s students may be eligible for a non-means-tested loan from the UK government.

Eligible courses
• Taught and research-based Master’s courses in any subject, including professional Master’s
• One and two year full-time courses
• Part-time courses studied over two to four years, as long as you study at 50% intensity of the equivalent full-time course (e.g. up to two years for the equivalent of a one year full-time course)

As a guide, for 2017–18 students from England, Wales and the EU could apply for up to £10,280; students from Northern Ireland for up to £5,500; and students from Scotland could apply for up to £5,500 for tuition fees and £4,500 towards living costs. 2018–19 figures have not yet been confirmed.

Lower level qualifications such as PG Certificates and Diplomas are not eligible, and you are not eligible if you already hold a Master’s qualification or equivalent (including an Integrated Master’s).

Repayment
The earliest you start repaying your loan is the April after you complete or leave your course. Repayments start automatically once you are in employment and earning over a certain threshold (£21,000 for English and Welsh students; £17,775 for students from Scotland and Northern Ireland). Any undergraduate loans you have will be repaid at the same time. Visit our website for more details (see web link left).

ACADEMIC SCHOLARSHIPS
Once you’ve identified your area of interest, it’s worth checking whether your chosen department has any available scholarships. You can search all these in one place using our Scholarships search tool (see below). Be aware that eligibility criteria usually apply. Application deadlines also vary, so start your search early to avoid missing out.

FUNDING A PhD

STUDENTSHIPS AND SCHOLARSHIPS
Studentships represent a major source of funding for UK and EU students.

Research Council-funded studentships
Fully-funded studentships are available through our PhD training centres as a way of encouraging research in a particular area. Funding from UK research councils currently accounts for the biggest share of our research income – see pages 16–17.

President’s PhD Scholarships
Imperial offers 50 full scholarships each year, which are open to the most talented students from around the world. Successful candidates receive funding for their tuition fees and a stipend of £21,000 per year for up to three and a half years to work within their chosen field. We also provide £2,000 per year for up to three years towards costs such as presenting at conferences. See: www.imperial.ac.uk/fees-and-funding/icphd

Departmental studentships
Funding for specific research projects is often available via our departments. These studentships normally cover your tuition fees (at the Home/EU rate) and an annual stipend for living costs.

Consideration for an award is usually based on academic merit or potential, though other criteria may also apply. Use our Scholarships search tool to look for opportunities, check deadlines and find out how to apply for individual awards.

OTHER FUNDING SOURCES
The Alternative Guide to Postgraduate Funding can help you to search for funding opportunities from charities and trusts. This could be anything from a few hundred pounds for specific items to larger amounts towards tuition fees or living costs. Eligibility criteria vary. See: www.imperial.ac.uk/study/pg/alternative-guide-to-funding

Other potential sources of funding include:

• Professional and Career Development bank loans that you can use to help pay for work-related learning. Eligibility criteria apply. See: www.gov.uk/career-development-loans
• Employer sponsorship – students entering further study from or during employment may be able to get help from their employer.
• Teaching assistantships – a number of departments offer paid teaching opportunities for PhD students.
• Sports scholarships for students who are aspiring to be, or already are, competing at national or international level. See: www.imperial.ac.uk/sport/performance-sport

FINDING FUNDING FOR INTERNATIONAL STUDENTS
We encourage international students to contact the Ministry of Education or British Council in their home country for funding advice. See: www.educationuk.org

We also have a number of scholarships available to promote international collaboration.

For more detailed information: www.imperial.ac.uk/study/pg/fees-and-funding/loans/postgraduate-loan-for-masters-study

Search all of our scholarships in one place: www.imperial.ac.uk/fees-and-funding/scholarships-search
Imperial’s Faculty of Engineering is unique in the UK in supporting world class teaching and research across the full range of engineering disciplines – all located on a single campus in South Kensington. It is a real research powerhouse, attracting a concentration of talent from across the globe that creates a stimulating and vibrant culture of discovery.
### Department of Aeronautics

#### MASTER'S COURSES

<table>
<thead>
<tr>
<th>Master's Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>English Req.†</th>
<th>FEE 2018–19¹ (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Advanced Aeronautical Engineering</td>
<td>1Y FT</td>
<td>2.5, preferably first class (H2) Honours, in an aerospace- or mechanical engineering-related degree with some experience of fluid and structural dynamics</td>
<td>✔</td>
<td>Standard</td>
<td>£6,250 PT / £15,000 PT</td>
</tr>
<tr>
<td>MSc Advanced Computational Methods for Aeronautics, Flow Management and Fluid-Structure Interaction</td>
<td>1Y FT</td>
<td>2.5 in engineering, physics, mathematics or computer science</td>
<td>✔</td>
<td>Standard</td>
<td>£6,250 PT / £15,000 PT</td>
</tr>
<tr>
<td>MSc Composites: the Science, Technology and Engineering Application of Advanced Composites</td>
<td>1Y FT</td>
<td>2.5 in engineering (aeronautical or mechanical), materials science, physics or chemistry</td>
<td>✔</td>
<td>Standard</td>
<td>£6,250 PT / £15,000 PT</td>
</tr>
<tr>
<td>MRes Fluid Dynamics across Scales</td>
<td>1Y FT</td>
<td>First class (H1) Honours degree in an engineering, physical sciences or applied mathematics subject</td>
<td>✔</td>
<td>Standard</td>
<td>£6,250 PT / £21,500 PT</td>
</tr>
</tbody>
</table>

#### RESEARCH PROGRAMMES

- **PhD Aeronautics research**
  - 2–4Y FT / 4–6Y FT
  - 2.1 in an appropriate subject.
  - Applicants must also normally hold or be studying for a Master's degree. Please gain support from a supervisor before applying
- **PhD Biomechanics**
  - 2–4Y FT / 4–6Y FT
  - 2.1 in an appropriate subject.
  - Applicants must also normally hold or be studying for a Master's degree
- **PhD Human and Biological Robotics**
  - 2–4Y FT / 4–6Y FT
  - 2.1 in an engineering, physical science or mathematical subject

#### CONTACT DETAILS

Master's courses
- E: msc-admissions@imperial.ac.uk
- D: Peter Vincent via: lisa.kelly@imperial.ac.uk

Research programmes
- E: be.phdadmissions@imperial.ac.uk

CDT in Fluid Dynamics across Scales
- E: fluids@imperial.ac.uk

www.imperial.ac.uk/study/pg/aeronautics

### Department of Bioengineering

#### MASTER’S COURSES

<table>
<thead>
<tr>
<th>Master’s Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>English Req.†</th>
<th>FEE 2018–19¹ (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRes Biomechanics†</td>
<td>1Y FT</td>
<td>2.1 in an engineering, physical science, mathematical or life/biomedical sciences subject</td>
<td>✔</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT / Overseas: £30,000 FT</td>
</tr>
<tr>
<td>MSc Biomedical Engineering</td>
<td>1Y FT</td>
<td>2.1 in an engineering, physical science or mathematical subject</td>
<td>X</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>MSc Human and Biological Robotics</td>
<td>1Y FT</td>
<td>2.1 in an engineering, physical science or mathematical subject</td>
<td>X</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>MRes Medical Device Design and Entrepreneurship</td>
<td>1Y FT</td>
<td>2.1 in an engineering, physical science, mathematical or life/biomedical sciences subject</td>
<td>✔</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>MRes Neurotechnology†</td>
<td>1Y FT</td>
<td>2.1 in an engineering or physical science subject. A biological or medical sciences background may be considered if applicants demonstrate substantial quantitative skills</td>
<td>✔</td>
<td>Standard</td>
<td>See CDT website: <a href="http://www.imperial.ac.uk/neurotechnology/cdt">www.imperial.ac.uk/neurotechnology/cdt</a></td>
</tr>
</tbody>
</table>

#### RESEARCH PROGRAMMES

- **PhD Biomechanics**
  - 2–4Y FT / 4–6Y FT
  - 2.1 in an appropriate subject.
  - Applicants must also normally hold or be studying for a Master's degree
- **MD/Res** Biomedical research†
  - 2–4Y FT / 4–6Y FT
  - 2.1 in an appropriate subject.
  - Applicants must also normally hold or be studying for a Master's degree

#### CONTACT DETAILS

Master's courses
- E: msc.admissions@imperial.ac.uk
- D: be.msc.admissions@imperial.ac.uk

Research programmes
- E: be.phd.admissions@imperial.ac.uk

CDT in Neurotechnology for Life and Health
- E: Kate Hobson: k.hobson@imperial.ac.uk

www.imperial.ac.uk/study/pg/bioengineering

Footnotes:
- † The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
- ‡ See terms and conditions on page one.
- † This fee is provisional and subject to change. The final fee will be based on the UK Research Councils fee, which will be confirmed in Spring 2019, and published on our website: www.imperial.ac.uk/pg/fees-and-funding/tuition-fees

* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
† See terms and conditions on page one.
‡ This fee is provisional and subject to change. The final fee will be based on the UK Research Councils fee, which will be confirmed in Spring 2019, and published on our website: www.imperial.ac.uk/pg/fees-and-funding/tuition-fees
# Department of Chemical Engineering

<table>
<thead>
<tr>
<th>MASTER'S COURSES</th>
<th>DURATION</th>
<th>ENTRY REQUIREMENTS</th>
<th>ATAS</th>
<th>ENGLISH REQ.*</th>
<th>FEE 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Advanced Chemical Engineering</td>
<td>1Y FT</td>
<td>2:1 in an engineering, physical science, mathematical or life/biomedical sciences subject</td>
<td>✓</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT Overseas: £30,000 FT</td>
</tr>
<tr>
<td>MSc Advanced Chemical Engineering with Biotechnology</td>
<td>1Y FT</td>
<td>✓</td>
<td>Standard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSc Advanced Chemical Engineering with Process Systems Engineering</td>
<td>1Y FT</td>
<td>✓</td>
<td>Standard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSc Advanced Chemical Engineering with Structured Product Engineering</td>
<td>1Y FT</td>
<td>✓</td>
<td>Standard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRes Molecular Science and Engineering (delivered by the Institute for Molecular Science and Engineering, see page 15)</td>
<td>1Y FT</td>
<td>2:1 in an engineering or physical sciences subject which includes some mathematics. Grade A in A-level mathematics also required</td>
<td>✓</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT Overseas: £30,000 FT</td>
</tr>
<tr>
<td>PG Cert Process Automation, Instrumentation and Control†</td>
<td>6 months–2Y PT</td>
<td>2:1 in a science or engineering subject and at least one year of industrial experience</td>
<td>✗</td>
<td>Standard</td>
<td>See website for fee details (link under contact details below)</td>
</tr>
<tr>
<td>PG Dip Process Automation, Instrumentation and Control‡</td>
<td>1–3Y PT</td>
<td>✗</td>
<td>Standard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSc Process Automation, Instrumentation and Control‡</td>
<td>2–5Y PT</td>
<td>✓</td>
<td>Standard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## RESEARCH PROGRAMMES

| PhD Carbonates and Carbon research | 4–6Y PT | 2:1 in an appropriate subject. Applicants must also normally hold or be studying for a Master's degree | ✓ | Standard | Home/EU: £12,000 FT Overseas: £29,000 FT |
| PhD Chemical Engineering research | 2–4Y FT† | ✗                  | Standard |               | Home/EU: £4,265† FT Overseas: £31,500 FT |

## CONTACT DETAILS

**Advanced Chemical Engineering**

E: chemeng-msc-admissions@imperial.ac.uk

**Process Automation**

E: msc-paic-admissions@imperial.ac.uk

**Research programmes**

E: chemeng-pgr-admissions@imperial.ac.uk

www.imperial.ac.uk/study/pg/chemical-engineering

* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
† See terms and conditions on page 15.
‡ Applicants should apply to the PG Certificate in the first instance. On successful completion, they have the option to progress to the PG Diploma and then the MSc. This is the only entry point to these higher courses.
§ This fee is provisional and subject to change. The final fee will be based on the UK Research Councils fee, which will be confirmed in Spring 2018, and published on our website: www.imperial.ac.uk/pg/fees-and-funding/tuition-fees

Professor JohnDear and his research group in the Department of Mechanical Engineering using the tensile stress machine to measure the deformation and breaking points of materials.
# Department of Civil and Environmental Engineering

## Master's Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>English Req.</th>
<th>Fee 2018–19* (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Advanced Structural Engineering</strong></td>
<td>1Y FT / 2Y PT</td>
<td>2:1 in a relevant subject (such as civil engineering, other branches of engineering, natural sciences, earth sciences and other numerate disciplines), Relevant industrial/professional experience may also be considered. Grade B in A-level mathematics also required</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 2Y PT; Overseas: £10,000 2Y PT, £10,000 3Y PT</td>
</tr>
<tr>
<td><strong>MSc Earthquake Engineering</strong></td>
<td>1Y FT / 2Y PT</td>
<td>2:1 in a relevant subject (such as civil engineering, other branches of engineering, natural sciences, earth sciences and other numerate disciplines), Relevant industrial/professional experience may also be considered. Grade B in A-level mathematics also required</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 2Y PT; Overseas: £10,000 2Y PT, £10,000 3Y PT</td>
</tr>
<tr>
<td><strong>MSc General Structural Engineering</strong></td>
<td>1Y FT / 2Y PT</td>
<td>Relevant industrial/professional experience may also be considered. Grade B in A-level mathematics also required</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 2Y PT; Overseas: £10,000 2Y PT, £10,000 3Y PT</td>
</tr>
<tr>
<td><strong>MSc Structural Steel Design</strong></td>
<td>1Y FT / 2Y PT</td>
<td>Relevant industrial/professional experience may also be considered. Grade B in A-level mathematics also required</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 2Y PT; Overseas: £10,000 2Y PT, £10,000 3Y PT</td>
</tr>
</tbody>
</table>

### Environmental Engineering

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>English Req.</th>
<th>Fee 2018–19* (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MSc Environmental Engineering</strong></td>
<td>1Y FT / 2Y PT</td>
<td>2:1 in a relevant subject (such as civil engineering, other branches of engineering, natural sciences, earth sciences and other numerate disciplines), Relevant industrial/professional experience may also be considered. Grade B in A-level mathematics also required</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 2Y PT; Overseas: £10,000 2Y PT, £10,000 3Y PT</td>
</tr>
<tr>
<td><strong>MSc Environmental Engineering and Business Management</strong></td>
<td>1Y FT / 2Y PT</td>
<td>2:1 in a relevant subject (such as civil engineering, other branches of engineering, natural sciences, earth sciences and other numerate disciplines), Relevant industrial/professional experience may also be considered. Grade B in A-level mathematics also required</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 2Y PT; Overseas: £10,000 2Y PT, £10,000 3Y PT</td>
</tr>
<tr>
<td><strong>MSc Hydrology and Business Management/Water Resources Management</strong></td>
<td>1Y FT / 2Y PT</td>
<td>2:1 in an engineering or science subject. Grade A in A-level mathematics also required</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 2Y PT; Overseas: £10,000 2Y PT, £10,000 3Y PT</td>
</tr>
</tbody>
</table>

### Fluid Mechanics

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>English Req.</th>
<th>Fee 2018–19* (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MSc Engineering Fluid Mechanics for the Offshore, Coastal and Built Environments</strong></td>
<td>1Y FT / 2Y PT</td>
<td>2:1 in an engineering or science subject. Grade A in A-level mathematics also required</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 2Y PT; Overseas: £10,000 2Y PT, £10,000 3Y PT</td>
</tr>
</tbody>
</table>

### Geotechnics

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>English Req.</th>
<th>Fee 2018–19* (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MSc Soil Mechanics</strong></td>
<td>1Y FT / 2Y PT</td>
<td>(such as civil engineering, other branches of engineering, natural sciences, earth sciences and other numerate disciplines), Relevant industrial/professional experience may also be considered. Grade B in A-level mathematics also required</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 2Y PT; Overseas: £10,000 2Y PT, £10,000 3Y PT</td>
</tr>
<tr>
<td><strong>MSc Soil Mechanics and Business Management/Engineering Geotechnics</strong></td>
<td>1Y FT / 2Y PT</td>
<td>(such as civil engineering, other branches of engineering, natural sciences, earth sciences and other numerate disciplines), Relevant industrial/professional experience may also be considered. Grade B in A-level mathematics also required</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 2Y PT; Overseas: £10,000 2Y PT, £10,000 3Y PT</td>
</tr>
</tbody>
</table>

### Transport

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>English Req.</th>
<th>Fee 2018–19* (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MSc Transport</strong></td>
<td>1Y FT / 2Y PT</td>
<td>2:1 in a relevant subject (such as civil engineering, other branches of engineering, natural sciences, earth sciences and other numerate disciplines), Relevant industrial/professional experience may also be considered. Grade B in A-level mathematics also required</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 2Y PT; Overseas: £10,000 2Y PT, £10,000 3Y PT</td>
</tr>
<tr>
<td><strong>MSc Transport and Business Management</strong></td>
<td>1Y FT / 2Y PT</td>
<td>2:1 in a relevant subject (such as civil engineering, other branches of engineering, natural sciences, earth sciences and other numerate disciplines), Relevant industrial/professional experience may also be considered. Grade B in A-level mathematics also required</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 2Y PT; Overseas: £10,000 2Y PT, £10,000 3Y PT</td>
</tr>
</tbody>
</table>

### PhD Sustainable Civil Engineering

- **DURATION**: 4Y FT
- **Entry Requirements**: See the CDT website for details: www.imperial.ac.uk/sustainable-civil-engineering
- **ATAS**: Standard
- **Fee 2017–18**: Home/EU: £4,265 FT; Overseas: £31,500 FT

### PhD Civil Engineering Research

- **DURATION**: 2–4Y FT / 4–6Y PT
- **Entry Requirements**: 2:1 in an appropriate subject. Applicants must also normally hold or be studying for a Master’s degree. Please gain support from a supervisor before applying
- **ATAS**: Standard
- **Fee 2017–18**: Home/EU: £4,265 FT; Overseas: £31,500 FT

### PhD Industrial Doctorate Centre

- **DURATION**: 4Y FT
- **Entry Requirements**: See the CDT website for details: www.imperial.ac.uk/sustainable-civil-engineering
- **ATAS**: Standard
- **Fee 2017–18**: Home/EU: £4,265 FT; Overseas: £31,500 FT

### PhD Water Engineering Research (delivered in the IDC in Engineering for the Water Sector)

- **DURATION**: 4Y FT
- **Entry Requirements**: See www.stream-idc.net/studying.php
- **ATAS**: Standard
- **Fee 2017–18**: Home/EU: £4,265 FT; Overseas: £31,500 FT

### Contact Details

- **Master’s courses**: cvpgo@imperial.ac.uk
- **Sustainable Civil Engineering**: cdt.sustainablecivil@imperial.ac.uk
- **All other research programmes**: Sarah Willis: s.willis@imperial.ac.uk

- **www.imperial.ac.uk/study/pg/civil-engineering**
- **www.imperial.ac.uk/study/pg/fees-and-funding/tuition-fees**
- **www.imperial.ac.uk/study/pg/civil-engineering**

* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
† See terms and conditions on page 115.
† Joint course with University College London (UCL).
§ This fee is provisional and subject to change. The final fee will be based on the UK Research Councils fee, which will be confirmed in Spring 2018, and published on our website: www.imperial.ac.uk/pg/fees-and-funding/tuition-fees
¥ Industrial Doctorate Centre led by Cranfield University, in partnership with Imperial College London, University of Exeter, University of Sheffield and Newcastle University.

For more information about our courses: www.imperial.ac.uk/study/pg
## Department of Computing

**MASTER’S COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>English Req.</th>
<th>Fee 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRes Advanced Computing</td>
<td>2Y FT</td>
<td>2:1 with a substantial computing component†</td>
<td>✔️ Standard</td>
<td>Home/EU: £16,000 FT</td>
<td></td>
</tr>
<tr>
<td>MSc Advanced Computing</td>
<td>2Y FT</td>
<td>2:1 in any subject†</td>
<td>✔️ Standard</td>
<td>Overseas: £16,000 FT</td>
<td></td>
</tr>
<tr>
<td>MSc Computing Science</td>
<td>2Y FT</td>
<td>2:1 in any subject†</td>
<td>✔️ Standard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSc Computing (Artificial Intelligence/Computational Management/Machine Learning/Secure Software Systems/Software Engineering/Visual Computing and Robotics)</td>
<td>2Y FT</td>
<td>2:1 in a science or engineering subject, including computing†</td>
<td>✔️ Standard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**RESEARCH PROGRAMMES**

<table>
<thead>
<tr>
<th>Programme</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>English Req.</th>
<th>Fee 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD Computing research</td>
<td>2–4Y FT</td>
<td>First class (1:1) Honours in a 4-year MEng undergraduate degree, or a distinction at Master’s level</td>
<td>✔️ Standard</td>
<td>Home/EU: £4,265 FT</td>
<td></td>
</tr>
<tr>
<td>PhD HIPEDS – Advanced Computing: High Performance Embedded and Distributed Systems (delivered by our CDT of the same name, see page 17)</td>
<td>4Y FT</td>
<td>✔️ Standard</td>
<td>See CDT website: wp.doc.ic.ac.uk/hipeds</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CONTACT DETAILS**

- Master’s courses
  - Email: doc-mscadmissions@imperial.ac.uk
- Research programmes
  - Email: phd-admissions@imperial.ac.uk

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## Dyson School of Design Engineering

**MASTER’S COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>English Req.</th>
<th>Fee 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA / Global Innovation Design²</td>
<td>2Y FT</td>
<td>2:1 in any subject. Applicants must show aptitude or great potential in design or technology-led innovation. In exceptional circumstances applicants without this degree qualification but with excellent professional experience or outstanding creative or technical abilities will be considered</td>
<td>X Higher</td>
<td>Home/EU and Overseas: Fees set and charged by the Royal College of Art. See <a href="http://www.rca.ac.uk/schools/school-of-design">www.rca.ac.uk/schools/school-of-design</a></td>
<td></td>
</tr>
<tr>
<td>MSc Innovation Design Engineering²</td>
<td>2Y FT</td>
<td>2:1 in any subject. Applicants must show aptitude or great potential in design or technology-led innovation. In exceptional circumstances applicants without this degree qualification but with excellent professional experience or outstanding creative or technical abilities will be considered</td>
<td>X Standard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**RESEARCH PROGRAMMES**

<table>
<thead>
<tr>
<th>Programme</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>English Req.</th>
<th>Fee 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD Design Engineering research</td>
<td>2–4Y FT</td>
<td>2:1 in an appropriate subject. Applicants must also normally hold or be studying for a Master’s degree. Please gain support from a supervisor before applying</td>
<td>✔️ Standard</td>
<td>Home/EU: £4,265 FT</td>
<td></td>
</tr>
<tr>
<td>PhD HiPEDS – Advanced Computing: High Performance Embedded and Distributed Systems (delivered by our CDT of the same name, see page 17)</td>
<td>4Y FT</td>
<td>✔️ Standard</td>
<td>See CDT website: wp.doc.ic.ac.uk/hipeds</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CONTACT DETAILS**

- Master’s courses
  - Email: doc-mscadmissions@imperial.ac.uk
- Research programmes
  - Email: phd-admissions@imperial.ac.uk

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* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
* See terms and conditions on page 115.
* Applicants must provide Graduate Record Examination (GRE) scores for Quantitative Reasoning and Verbal Reasoning. As well as entering the scores on the application form, applicants must ask the GRE organisation to send validating certificates to the Department. Only the first scores submitted will be considered. While there is no minimum requirement for GRE scores, a strong application would include scores higher than 150 for Quantitative Reasoning and higher than 165 for Verbal Reasoning. See www.ets.org/gre
* This fee is provisional and subject to change. The final fee will be based on the UK Research Councils fee, which will be confirmed in Spring 2018, and published on our website: www.imperial.ac.uk/pg/fees-and-funding/tuition-fees

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For more information about our courses: www.imperial.ac.uk/study/pg
For more information about our courses: www.imperial.ac.uk/study/pg/electrical-engineering
FACULTY OF ENGINEERING

Department of Materials

<table>
<thead>
<tr>
<th>MASTER'S COURSES</th>
<th>DURATION</th>
<th>ENTRANCE REQUIREMENTS</th>
<th>ATAS</th>
<th>FEE 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Advanced Materials Science and Engineering</td>
<td>1Y FT</td>
<td>Minimum 2:1 in an engineering or science subject (e.g. materials, mechanical, civil or chemical engineering, physics or chemistry)</td>
<td>✓ Standard</td>
<td>Home/EU: £12,500 FT Overseas: £16,000 FT</td>
</tr>
<tr>
<td>MSc Advanced Nuclear Engineering</td>
<td>1Y FT</td>
<td>2:1 in an appropriate subject.</td>
<td>Standard</td>
<td>Home/EU: £4,265 FT Overseas: £23,500 FT</td>
</tr>
</tbody>
</table>

RESEARCH PROGRAMMES

| PhD | Materials research | 2-4Y FT / 4-6Y PT | ✓ Standard | See CDT website: www.cdt-acm.org |
| PhD Advanced Characterisation of Materials (delivered by our joint EPSRC CDT with UCL of the same name, see page 17) | 4Y FT | See the Advanced Characterisation of Materials CDT website for details: www.cdt-acm.org/how-to-apply | Standard | |
| PhD Nuclear Energy (delivered by our IG TCD in Nuclear Energy, see page 17) | 1Y + 3Y FT | See the Nuclear Energy CDT website for details: www.imperial.ac.uk/nuclear-ctd/programme | ✓ Standard | See CDT website: www.imperial.ac.uk/nuclear-ctd |

CONTACT DETAILS

All programmes 
E mtpgadmit@imperial.ac.uk
www.imperial.ac.uk/study/pg/materials

* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
† This fee is provisional and subject to change. The final fee will be based on the UK Research Councils fee, which will be confirmed in Spring 2018, and published on our website: www.imperial.ac.uk/pg/fees-and-funding/tuition-fees

Department of Mechanical Engineering

<table>
<thead>
<tr>
<th>MASTER'S COURSES</th>
<th>DURATION</th>
<th>ENTRANCE REQUIREMENTS</th>
<th>ATAS</th>
<th>FEE 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Advanced Mechanical Engineering</td>
<td>1Y FT / 2Y PT / 3Y PT</td>
<td>First class (1st) Honours degree in engineering or science</td>
<td>✓ Standard</td>
<td>Home/EU: £12,500 FT, £6,250 2Y PT, £4,167 3Y PT Overseas: £30,000 FT, £15,000 2Y PT, £10,000 3Y PT</td>
</tr>
<tr>
<td>MSc Sustainable Energy Futures (delivered by Energy Futures Lab, see page 16)</td>
<td>1Y FT</td>
<td>2:1 in engineering or physical sciences</td>
<td>X Higher</td>
<td>Home/EU: £12,500 FT Overseas: £30,000 FT</td>
</tr>
</tbody>
</table>

RESEARCH PROGRAMMES

| PhD Mechanical Engineering Research | 3-4Y PT | 2:1 in an appropriate subject. | ✓ Standard | Home/EU: £4,265 FT Overseas: £23,500 FT |
| PhD (MD) Electrical Engineering Research | 3-4Y PT | Applicants must also normally hold or be studying for a Master’s degree. Please gain support from a supervisor before applying | ✓ Standard | |
| PhD Non-Destructive Evaluation CDT CDT | 2-4Y FT | See the Non-Destructive Evaluation CDT website for details: www.rcnde.ac.uk/home-cdt | ✓ Standard | See CDT website: www.rcnde.ac.uk/home-cdt |

We also have PhD opportunities available in the EPSRC CDT in Diamond Science and Technology, of which Imperial is a partner institution. For details see: www.warwick.ac.uk/fac/sci/dst

CONTACT DETAILS

Sustainable Energy Futures 
E macinau@imperial.ac.uk
All other programmes 
E Kate Lewis, Postgraduate Administrator: kate.lewis@imperial.ac.uk
www.imperial.ac.uk/study/pg/mechanical-engineering

* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
† See terms and conditions on page 115.
‡ This fee is provisional and subject to change. The final fee will be based on the UK Research Councils fee, which will be confirmed in Spring 2018, and published on our website: www.imperial.ac.uk/pg/fees-and-funding/tuition-fees

For more information about our courses: www.imperial.ac.uk/study/pg/
Five core scientific disciplines – chemistry, life sciences, mathematics, physics and environmental policy – form the backbone of the Faculty's teaching and research activities. Our research harnesses the breadth of our expertise to meet the changing needs of society, industry and healthcare, and to address the global challenges of climate change, energy, global health and security.
Faculty of Natural Sciences courses

Department of Chemistry

<table>
<thead>
<tr>
<th>MASTER'S COURSES</th>
<th>DURATION</th>
<th>ENTRY REQUIREMENTS</th>
<th>ATAS</th>
<th>ENGLISH REQ.*</th>
<th>FEE 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRes Biointerface Imaging Sciences</td>
<td>Y FT</td>
<td>2:1 in a science, technology, engineering or medicine subject</td>
<td>☑</td>
<td>Standard</td>
<td>Home/EU: £14,100 FT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2:1 in chemistry or an engineering subject. A modest level of background chemistry or engineering knowledge is assumed</td>
<td></td>
<td></td>
<td>Overseas: £16,910 FT</td>
</tr>
<tr>
<td>MRes Biointerface Chemistry and Imaging</td>
<td>Y FT</td>
<td>2:1 in any subject with more than 50% physical science content (e.g. chemistry, physics, mathematics, biophysics, biochemistry, bioengineering)</td>
<td>☑</td>
<td>Standard</td>
<td>Home/EU: £14,100 FT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2:1 in a relevant subject, such as chemistry, pharmacy, physics, biochemistry and medicine</td>
<td></td>
<td></td>
<td>Overseas: £16,910 FT</td>
</tr>
<tr>
<td>MRes Nanomaterials</td>
<td>Y FT</td>
<td>2:1 in any subject with more than 50% physical science content (e.g. chemistry, physics, mathematics, biophysics, biochemistry, bioengineering)</td>
<td>☑</td>
<td>Standard</td>
<td>Home/EU: £11,000 FT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2:1 in a relevant subject, such as chemistry, physics, mathematics, biochemistry and engineering</td>
<td></td>
<td></td>
<td>Overseas: £13,500 FT</td>
</tr>
<tr>
<td>MRes Plant Biotechnology Research</td>
<td>Y FT, 2 PT</td>
<td>2:1 in any subject with more than 50% physical science content (e.g. chemistry, physics, mathematics, biophysics, biochemistry, bioengineering)</td>
<td>☑</td>
<td>Standard</td>
<td>Home/EU: £11,000 FT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2:1 in a relevant subject, such as chemistry, pharmacy, physics, biochemistry and medicine</td>
<td></td>
<td></td>
<td>Overseas: £13,500 FT</td>
</tr>
</tbody>
</table>

Home/EU: £1,000 FT, £3,500 FT, £3,500 PT, £3,500/0 FT, £3,500/0 PT
Overseas: £3,500 PT, £3,500 PT

For more information about our courses: www.imperial.ac.uk/study/pg

Centre for Environmental Policy

<table>
<thead>
<tr>
<th>MASTER'S COURSES</th>
<th>DURATION</th>
<th>ENTRY REQUIREMENTS</th>
<th>ATAS</th>
<th>ENGLISH REQ.*</th>
<th>FEE 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Environmental Technology</td>
<td>2 Y FT</td>
<td>2:1 in an appropriate subject. Applicants must also normally hold or be studying for a Master's degree. Please gain support from a supervisor before applying</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £11,500 Y FT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2:1 in an appropriate subject. Applicants must also normally hold or be studying for a Master's degree. Please gain support from a supervisor before applying</td>
<td></td>
<td></td>
<td>Overseas: £13,000 FT</td>
</tr>
<tr>
<td>MSc Sustainable Investment and Management</td>
<td>Y FT/2 PT</td>
<td>2:1 in any science, engineering or social sciences subject</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £11,500 Y FT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2:1 in any science, engineering or social sciences subject</td>
<td></td>
<td></td>
<td>Overseas: £13,000 FT</td>
</tr>
</tbody>
</table>

Home/EU: £11,500 FT, £13,000 FT
Overseas: £13,000 FT

RESEARCH PROGRAMMES

PhD Environmental research
2-6 Y FT
Applicants must also normally hold or be studying for a Master’s degree. Please gain support from a supervisor before applying

Home/EU: £4,297 FT
Overseas: £11,500 FT

CONTACT DETAILS

All programmes
E enquiries.env@imperial.ac.uk

www.imperial.ac.uk/study/pg/environmental-policy

* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
† See terms and conditions on page 115.
‡ This fee is provisional and subject to change. The final fee will be based on the UK Research Councils fee, which will be confirmed in Spring 2016, and published on our website: www.imperial.ac.uk/pg/fees-and-funding/tuition-fees

For details see: www.imagingcdt.com

For more information about our courses:
www.imperial.ac.uk/study/pg
**Department of Life Sciences**

<table>
<thead>
<tr>
<th>MASTER'S COURSES</th>
<th>DURATION</th>
<th>ENTRY REQUIREMENTS</th>
<th>ATAS</th>
<th>ENGLISH REQ.</th>
<th>FEE 2018–19† (per year)</th>
<th>HOME/EU</th>
<th>OVERSEAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Applied Biosciences and Biotechnology</td>
<td>1Y FT</td>
<td>2:1 in biochemistry, biology or a related subject</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £10,900 FT</td>
<td>Overseas: £25,300 FT</td>
<td>Overseas: £25,300 FT</td>
</tr>
<tr>
<td>MSc Bioinformatics and Theoretical Systems Biology</td>
<td>1Y FT</td>
<td>2:1 in a biological, physical, computational or mathematical subject</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £9,800 FT</td>
<td>Overseas: £22,600 FT</td>
<td>Overseas: £22,600 FT</td>
</tr>
<tr>
<td>MSc Conservation Science</td>
<td>1Y FT</td>
<td>2:1 in any subject. Applicants without the relevant level of qualification but substantial field experience may be considered</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £10,900 FT</td>
<td>Overseas: £25,300 FT</td>
<td>Overseas: £25,300 FT</td>
</tr>
<tr>
<td>MSc Ecological Applications</td>
<td>1Y FT</td>
<td>2:1 in a science-based subject</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £9,800 FT</td>
<td>Overseas: £22,600 FT</td>
<td>Overseas: £22,600 FT</td>
</tr>
<tr>
<td>MSc Ecology, Evolution and Conservation</td>
<td>1Y FT / 2Y PT</td>
<td></td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £9,800 FT</td>
<td>Overseas: £22,600 FT</td>
<td>Overseas: £22,600 FT</td>
</tr>
<tr>
<td>MRes Ecosystem and Environmental Change</td>
<td>1Y FT / 2Y PT</td>
<td>2:1 in a science-based subject and, ideally, experience in environmental research or policy, and a strong interest in a research career in this field</td>
<td>✓</td>
<td>Standard</td>
<td>Home/EU: £9,800 FT</td>
<td>Overseas: £22,600 FT</td>
<td>Overseas: £22,600 FT</td>
</tr>
<tr>
<td>MRes Molecular and Cellular Biosciences</td>
<td>1Y FT</td>
<td>2:1 in a bioscience-based subject, and a commitment to a career in biosciences research</td>
<td>✓</td>
<td>Standard</td>
<td>Home/EU: £10,900 FT</td>
<td>Overseas: £25,300 FT</td>
<td>Overseas: £25,300 FT</td>
</tr>
<tr>
<td>MRes Molecular Plant and Microbial Sciences</td>
<td>1Y FT</td>
<td>2:1 in a science-based subject</td>
<td>✓</td>
<td>Standard</td>
<td>Home/EU: £9,800 FT</td>
<td>Overseas: £22,600 FT</td>
<td>Overseas: £22,600 FT</td>
</tr>
<tr>
<td>MRes Plant Chemical Biology: Multidisciplinary Research for Next Generation Agri-Sciences</td>
<td>1Y FT / 2Y PT</td>
<td>2:1 in a physical sciences-based subject</td>
<td>✓</td>
<td>Standard</td>
<td>Home/EU: £11,100 FT</td>
<td>Overseas: £26,600 FT</td>
<td>Overseas: £26,600 FT</td>
</tr>
<tr>
<td>MRes Structural Molecular Biology</td>
<td>1Y FT</td>
<td>2:1 in a physical sciences-based subject</td>
<td>✓</td>
<td>Standard</td>
<td>Home/EU: £9,800 FT</td>
<td>Overseas: £22,600 FT</td>
<td>Overseas: £22,600 FT</td>
</tr>
<tr>
<td>MRes Systems and Synthetic Biology</td>
<td>1Y FT</td>
<td>2:1 in a physical, engineering, mathematical, or life/biomedical sciences-based subject</td>
<td>✓</td>
<td>Standard</td>
<td>Home/EU: £9,800 FT</td>
<td>Overseas: £22,600 FT</td>
<td>Overseas: £22,600 FT</td>
</tr>
<tr>
<td>MSc Taxonomy and Biodiversity</td>
<td>1Y FT / 2Y PT / 3Y PT</td>
<td>2:1 in any area of biology or a related subject</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £9,800 FT</td>
<td>Overseas: £22,600 FT</td>
<td>Overseas: £22,600 FT</td>
</tr>
<tr>
<td>MRes Tropical Forest Ecology</td>
<td>1Y FT / 2Y PT</td>
<td>2:1 in a science-based subject</td>
<td>✓</td>
<td>Standard</td>
<td>Home/EU: £12,800 FT</td>
<td>Overseas: £26,600 FT</td>
<td>Overseas: £26,600 FT</td>
</tr>
</tbody>
</table>

**RESEARCH PROGRAMMES**

| PhD | Life Sciences research\* | 2–4Y FT / 4–6Y PT | 2:1 in an appropriate subject. Applicants must also normally hold or be studying for a Master's degree | ✓ | Standard | Home/EU: £4,265 FT | Overseas: £9,300 FT |
| MSc + PhD | Theoretical Systems Biology and Bioinformatics (the Wellcome Trust PhD training programme) | Y + Y FT | 2:1 in a biological, physical, computational or mathematical subject | X | Standard | See our website: www.imperial.ac.uk/life-sciences/graduate/research/phd-opportunities |
| MRes/BBRC Doctoral Training | | | | ✓ | Standard | | |
| MSc + PhD | Biosystematics Partnership\* (see page 17) | Y + Y FT | 2:1 in an appropriate subject. Applicants must also normally hold or be studying for a Master's degree | X | Standard | | |

**CONTACT DETAILS**

Bioinformatics and Theoretical Systems Biology; Biosystematics; Taxonomy and Biodiversity

E: james.ferguson@imperial.ac.uk

Research programmes

E: james.ferguson@imperial.ac.uk

www.imperial.ac.uk/study/pg/life-sciences

§ This fee is provisional and subject to change. The final fee will be based on the UK Research Councils fee, which will be confirmed in Spring 2018, and published on our website: www.imperial.ac.uk/pg/fees-and-funding/tuition-fees

*The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.

†See terms and conditions on page 119.

‡ Applicants not applying for a +3 studentship must gain support from a supervisor before applying.

For more information about our courses:

www.imperial.ac.uk/study/pg
Department of Mathematics

<table>
<thead>
<tr>
<th>MASTER'S COURSES</th>
<th>DURATION</th>
<th>ENTRY REQUIREMENTS</th>
<th>ATAS</th>
<th>ENGLISH REQ.</th>
<th>FEE 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Advanced Computational</td>
<td>1 Y FT / 2 Y PT</td>
<td>2+1 in engineering, physics, mathematics or computer science</td>
<td>✓</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 PT, Overseas: £30,000 FT, £15,000 PT</td>
</tr>
<tr>
<td>Methods for Aeronautics, Flow Management and Fluid-Structure Interaction (hosted by Department of Aeronautics)</td>
<td>1 Y FT / 2 Y PT</td>
<td>2+1 in engineering, physics, mathematics or computer science</td>
<td>✓</td>
<td>Standard</td>
<td>Home/EU: £12,500 FT, £6,250 PT, Overseas: £30,000 FT, £15,000 PT</td>
</tr>
<tr>
<td>MSc Applied Mathematics</td>
<td>1 Y FT / 2 Y PT</td>
<td>2+1 in mathematics, applied mathematics or a related subject such as engineering or physics</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £10,000 FT, £5,000 PT, Overseas: £26,000 FT, £13,000 PT</td>
</tr>
<tr>
<td>MSc Mathematics and Finance</td>
<td>1 Y FT / 2 Y PT</td>
<td>2+1 in mathematics or a physical science with a substantial mathematics component</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £10,000 FT, £5,000 PT, Overseas: £26,000 FT, £13,000 PT</td>
</tr>
<tr>
<td>MSc Pure Mathematics</td>
<td>1 Y FT / 2 Y PT</td>
<td>2+1 in mathematics with a substantial pure mathematics component</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £10,000 FT, £5,000 PT, Overseas: £26,000 FT, £13,000 PT</td>
</tr>
<tr>
<td>MSc Statistics</td>
<td>1 Y FT</td>
<td>2+1 in mathematics, applied mathematics, statistics or a related subject such as engineering or physics</td>
<td>X</td>
<td>Standard</td>
<td>Home/EU: £11,500 FT, Overseas: £26,000 FT</td>
</tr>
<tr>
<td>MRes Stochastic Analysis and Mathematical Finance</td>
<td>1 Y FT</td>
<td>2+1 in mathematics, engineering or finance (with a substantial mathematics component). Evidence of aptitude for research preferred</td>
<td>✓</td>
<td>Standard</td>
<td>Overseas: £26,000 FT</td>
</tr>
</tbody>
</table>

RESEARCH PROGRAMMES

| PhD Mathematics research         | 3–6 Y FT    | Applicants must also normally hold/be studying for a Master’s degree             | ✓    | Standard     | Home/EU: £4,360 FT, Overseas: £11,200 FT |
| MRes Mathematics of Planet Earth (delivered by our joint CDT with Reading, see page 17) | 1 Y FT / 2 Y PT | See the Mathematics of Planet Earth CDT website for details: www.mpecdt.org/admissions | ✓    | Higher       | www.mpecdt.org |
| MRes Stochastic Analysis and Mathematical Finance | 1 Y FT | See the Mathematics of Planet Earth CDT website for details: www.mpecdt.org/admissions | ✓    | Higher       | www.mpecdt.org/admissions |

* We also have PhD opportunities available in the following Centres for Doctoral Training, of which Imperial is a partner institution: London School of Geometry and Number Theory (joint with UCL and King’s College London): www.lsgnt-cdt.ac.uk and Financial Computing and Analytics (joint with UCL and LSE): www.financialcomputing.org. Please apply directly to the relevant CDT.

CONTACT DETAILS

- Applied and Pure Mathematics
  - MathSMSc@imperial.ac.uk
- Mathematics and Finance
  - MathFin@imperial.ac.uk
- Statistics
  - StatsSMSc@imperial.ac.uk
- Stochastic Analysis and Mathematical Finance
  - MRes.IMathSMSc@imperial.ac.uk
- Mathematics research
  - MathPhD@imperial.ac.uk

www.imperial.ac.uk/study/pg/mathematics

‡ This fee is provisional and subject to change. The final fee will be based on the UK Research Councils fee, which will be confirmed in Spring 2018, and published on our website: www.imperial.ac.uk/pg/fees-and-funding/tuition-fees
## Department of Physics

### Master’s Courses

| MRes | Controlled Quantum Dynamics | 1Y FT | First class (1st) honours degree in physics | ✔️ Standard | Home/EU: £12,700 FT Overseas: £25,500 FT |
| MSc | Optics and Photonics | 1Y FT / 2Y PT | 1:1 in physics, mathematics or electrical engineering, or evidence of appropriate qualifications | ✔️ Standard | Home/EU: £10,500 FT, £5.250 PT Overseas: £26,500 FT, £13,250 PT |

| MRes | Photonics | 1Y FT | 1:1 in physics, electrical or electronic engineering, or a relevant science subject | ✔️ Standard | Home/EU: £10,500 FT Overseas: £25,700 FT |
| MSc | Physics | 1Y FT | First class (1st) honours degree in physics with a strong mathematical component. Other scientific subjects with significant mathematics and physics content may be considered | ✔️ Standard | Overseas: £26,000 FT |

| MSc | Physics with Extended Research | 2Y FT | First class (1st) honours degree in physics or mathematics with theoretical physics options | ✔️ Standard | Home/EU: £27,900 FT Overseas: £50,400 FT |

| MRes | Plastic Electronic Materials | 1Y FT | First class (1st) honours degree in physics or engineering with strong mathematical content | ✔️ Standard | Home/EU: £19,500 FT Overseas: £30,700 FT |
| MSc | Quantum Fields and Fundamental Forces | 1Y FT / 2Y FT | First class (1st) honours degree in physics or mathematics with theoretical physics options | ✔️ Standard | Home/EU: £10,500 FT, £5,250 PT Overseas: £26,500 FT, £13,250 PT |

### Research Programmes

| PhD | Physics research | 2–4Y FT / 4–6Y FT | 1:1 in an appropriate subject. Applicants must also normally hold or be studying for a Master’s degree | ✔️ Standard | Home/EU: £4,265* FT Overseas: £24,500 FT |

| MRes + PhD | Controlled Quantum Dynamics (delivered by our CDT of the same name, see page 17) | 1Y + 3Y FT | Check the website of your chosen CDT for details (see page 17) | ✔️ Standard | See CDT website: www.imperial.ac.uk/controlled-quantum-dynamics |

| MRes + PhD | Physics (based in the Photonics Research Group) | 1Y + 3Y FT | First class (1st) honours degree in physics. Other scientific subjects may be considered | ✔️ Standard | See website: www.imperial.ac.uk/photonics |

| MRes + PhD | Plastic Electronic Materials (delivered by our CDT of the same name, see page 17) | 1Y + 3Y FT | Check the website of your chosen CDT for details (see page 17) | ✔️ Standard | See CDT website: www.imperial.ac.uk/plastic-electronics-cdt |

### Duration of course (years)

| FT | Full-time study |
| PT | Part-time study |

### ATAS Academic Technology Approval Scheme (see page 64)

For more information about our courses: www.imperial.ac.uk/study/pg
The Faculty of Medicine is at the forefront of translating biomedical discoveries for the benefit of local, national and global patient populations. With research funding in excess of £170 million a year, our Academic Health Science Centre partnership with Imperial College Healthcare NHS Trust, close connections with healthcare partners and multidisciplinary collaborations with the other College Faculties, we’re perfectly placed to provide a world class teaching, research and training environment.
Faculty of Medicine

courses

Institute of Clinical Sciences

RESEARCH PROGRAMMES

<table>
<thead>
<tr>
<th>PhD Clinical Sciences research</th>
<th>DURATION</th>
<th>ENTRY REQUIREMENTS</th>
<th>ATAS</th>
<th>ENGLISH REQ.*</th>
<th>FEE 2018–19 £ (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3–4 Y FT</td>
<td>2:1 in an appropriate subject</td>
<td>x</td>
<td>Standard</td>
<td>Home/EU: £5,900 FT, Overseas: £37,200 FT</td>
<td></td>
</tr>
<tr>
<td>MRes Bacterial Pathogenesis</td>
<td>Y FT</td>
<td>2:1 in an appropriate subject</td>
<td>x</td>
<td>Standard</td>
<td>Home/EU: £10,600 FT, Overseas: £32,500 FT</td>
</tr>
</tbody>
</table>

CONTACT DETAILS

Research programmes
E studentst@imperial.ac.uk

www.imperial.ac.uk/study/pg/clinical-sciences

* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
† See terms and conditions on page 115.
‡ This is a stream within the Biomedical Research MRes, which is run by the Department of Surgery and Cancer (see pages 100–101).

Department of Medicine

MASTER’S COURSES

<table>
<thead>
<tr>
<th>MRes Experimental Neurosciences</th>
<th>DURATION</th>
<th>ENTRY REQUIREMENTS</th>
<th>ATAS</th>
<th>ENGLISH REQ.*</th>
<th>FEE 2018–19 £ (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRes Functional Genomics</td>
<td>Y FT</td>
<td>2:1 in an appropriate subject</td>
<td>x</td>
<td>Standard</td>
<td>Home/EU: £10,600 FT, Overseas: £32,500 FT</td>
</tr>
<tr>
<td>MSc Human Molecular Genetics</td>
<td>Y FT</td>
<td>2:1 in biochemical sciences, genetics or a related subject</td>
<td>x</td>
<td>Higher</td>
<td>Home/EU: £10,600 FT, Overseas: £32,500 FT</td>
</tr>
</tbody>
</table>

CONTACT DETAILS

Human Molecular Genetics
E Deborah Jones, Course Administrator: deborah.jones@imperial.ac.uk

All other programmes
E dom.researchdegrees@imperial.ac.uk

www.imperial.ac.uk/study/pg/medicine

* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
† See terms and conditions on page 115.
‡ This is a stream within the Biomedical Research MRes, which is run by the Department of Surgery and Cancer (see pages 100–101).

When completing your application please indicate your stream choice in the first line of your personal statement.

RESEARCH PROGRAMMES

<table>
<thead>
<tr>
<th>MRes Clinical Research</th>
<th>DURATION</th>
<th>ENTRY REQUIREMENTS</th>
<th>ATAS</th>
<th>ENGLISH REQ.*</th>
<th>FEE 2018–19 £ (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRes Clinical Research</td>
<td>Y FT</td>
<td>2:1 in an appropriate subject</td>
<td>x</td>
<td>Standard</td>
<td>Home/EU: £11,800 FT, Overseas: £33,500 FT</td>
</tr>
<tr>
<td>MSc Functional Genomics</td>
<td>Y FT</td>
<td>2:1 in chemistry, biochemistry or a related biomedical sciences subject. Applicants who don’t meet these requirements but have substantial relevant industrial experience may be considered, subject to successful completion of an entrance exam</td>
<td>x</td>
<td>Standard</td>
<td>Home/EU: £11,800 FT, Overseas: £33,500 FT</td>
</tr>
</tbody>
</table>

CONTACT DETAILS

imperial.college.ac.uk

www.imperial.ac.uk/study/pg/medicine

* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
† See terms and conditions on page 115.
‡ This is a stream within the Biomedical Research MRes, which is run by the Department of Surgery and Cancer (see pages 100–101).

When completing your application please indicate your stream choice in the first line of your personal statement.

† Applicants should apply for the MRes in Clinical Research as the umbrella course and specify their preferred pathway in their application.
‡ Applicants must gain support from a supervisor before applying.
# National Heart and Lung Institute

**MASTERS COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>ENGLISH REQ.</th>
<th>FEE 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG Cert Cardiovascular and Respiratory Healthcare</td>
<td>9 months PT</td>
<td>2:1 in a relevant medical, biomedical or healthcare subject.</td>
<td>X</td>
<td>Higher</td>
<td></td>
</tr>
<tr>
<td>PG Dip Cardiovascular and Respiratory Healthcare</td>
<td>9 months PT / 21 months PT</td>
<td>Applicants who don’t meet this requirement but have substantial relevant clinical experience may also be considered</td>
<td>X</td>
<td>Higher</td>
<td></td>
</tr>
<tr>
<td>MSc Genes, Drugs and Stem Cells – Novel Therapies</td>
<td>4 months PT</td>
<td>2:1 in an appropriate science subject</td>
<td>X</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>PG Cert Genomic Medicine</td>
<td>4 months FT / 1Y FT</td>
<td>2:1 in a relevant medical, biomedical or healthcare subject</td>
<td>X</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>MSc Genomic Medicine</td>
<td>1Y FT / 2Y PT</td>
<td></td>
<td>X</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>MSc Innovations in Cardiovascular Science</td>
<td>4 months FT</td>
<td>Normally a degree in medicine or equivalent, and two or more years' post-graduate work experience in a clinical setting</td>
<td>X</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>MSc Medical Ultrasonography§</td>
<td>1Y FT / 2Y PT</td>
<td>2:1 in medicine or a biological sciences subject</td>
<td>X</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>MSc Medical Ultrasonography (Echocardiography)§</td>
<td>1Y FT</td>
<td></td>
<td>X</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>MRes Respiratory and Cardiovascular Science§</td>
<td>1Y FT</td>
<td>2:1 in an appropriate science subject</td>
<td>X</td>
<td>Standard</td>
<td></td>
</tr>
</tbody>
</table>

**RESEARCH PROGRAMMES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>ENGLISH REQ.</th>
<th>FEE 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD Clinical Medicine research§</td>
<td>2–4Y FT / 4–6Y FT</td>
<td>Normally applicants need to either hold an MBBS degree or hold or be studying for a Master’s degree, and have a 2:1 in an appropriate subject</td>
<td>X</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>MRes Clinical Medicine research§</td>
<td>2–4Y FT / 4–6Y FT</td>
<td>MBBS degree</td>
<td>X</td>
<td>Standard</td>
<td></td>
</tr>
</tbody>
</table>

**CONTACT DETAILS**

- E NHTL Education Manager: nhil.edcentre@imperial.ac.uk
- www.imperial.ac.uk/study/pg/nhil

* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
* See terms and conditions on page 119.
† The degree title awarded will be Medical Ultrasonography or Medical Ultrasonography (Echocardiography) according to the subjects studied.
§ This is a stream within the Biomedical Research MRes, which is run by the Department of Surgery and Cancer (see pages 100–101).
When completing your application please indicate your stream choice in the first line of your personal statement.
- Applicants must gain support from a supervisor before applying.

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# School of Public Health

**MASTERS COURSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>ENGLISH REQ.</th>
<th>FEE 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Epidemiology</td>
<td>1Y FT</td>
<td>2:1 in mathematics or statistics, medicine (human or veterinary) or biological sciences</td>
<td>X</td>
<td>Higher</td>
<td></td>
</tr>
<tr>
<td>MPH Public Health</td>
<td>1Y FT</td>
<td>2:1 in a science subject or MBBS degree. Suitable applicants are likely to have a background in medicine, health sciences, biological sciences or environmental sciences. Mature applicants with relevant academic or professional experience will also be considered</td>
<td>X</td>
<td>Higher</td>
<td></td>
</tr>
<tr>
<td>MRes Epidemiology, Evolution and Control of Infectious Diseases§</td>
<td>1Y FT</td>
<td>2:1 in an appropriate science subject</td>
<td>X</td>
<td>Standard</td>
<td></td>
</tr>
</tbody>
</table>

**RESEARCH PROGRAMMES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>ENGLISH REQ.</th>
<th>FEE 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD Clinical Medicine research§</td>
<td>2–4Y FT / 4–6Y FT</td>
<td>Normally applicants need to either hold an MBBS degree or hold or be studying for a Master’s degree, and have a 2:1 in an appropriate subject</td>
<td>X</td>
<td>Higher</td>
<td></td>
</tr>
</tbody>
</table>

**CONTACT DETAILS**

- E msc-epidemiology@imperial.ac.uk
- E mph-queries@imperial.ac.uk

* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
† See terms and conditions on page 119.
‡ Two streams are available: Global Health, and Health Services and Systems.
§ This is a stream within the Biomedical Research MRes, which is run by the Department of Surgery and Cancer (see pages 100–101).
When completing your application please indicate your stream choice in the first line of your personal statement.
- Applicants must gain support from a supervisor before applying.

---

*Duration of course (years)*
*FT* Full-time study
*PT* Part-time study
*ATAS Academic Technology Approval Scheme (see page 64)*
## Department of Surgery and Cancer

### MASTER'S COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>FEE 2018–19 (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRes Anaesthesiology, Pain Medicine and Intensive Care*</td>
<td>1Y FT</td>
<td>2:1 in an appropriate science subject</td>
<td>X Standard</td>
<td>Home/EU: £15,400 FT</td>
</tr>
<tr>
<td>MRes Biomedical Research</td>
<td>1Y FT</td>
<td>X Standard</td>
<td></td>
<td>Overseas: £12,400 FT</td>
</tr>
<tr>
<td>MRes Cancer Biology</td>
<td>1Y FT</td>
<td>X Standard</td>
<td></td>
<td>Home/EU: £10,600 FT</td>
</tr>
<tr>
<td>MRes Cancer Biology (Cancer Informatics)†</td>
<td>1Y FT</td>
<td>X Standard</td>
<td></td>
<td>Overseas: £12,500 FT</td>
</tr>
<tr>
<td>MRes Data Science</td>
<td>2Y FT</td>
<td>X Standard</td>
<td></td>
<td>Home/EU: £15,400 FT</td>
</tr>
<tr>
<td>PG Cert Health Policy (Leading Innovative Change)</td>
<td>10 months PT</td>
<td>2:1 in any subject, with at least two years' healthcare experience</td>
<td>X Standard</td>
<td>Overseas: £12,500 FT</td>
</tr>
<tr>
<td>PG Dip Health Policy</td>
<td>21 months PT</td>
<td>X Standard</td>
<td></td>
<td>See website for fee details (link under contact details below)</td>
</tr>
<tr>
<td>MSc Healthcare and Design</td>
<td>2Y PT</td>
<td>2:1 in any subject, with either a clinical background or other healthcare experience</td>
<td>X Standard</td>
<td>Home/EU: £6,900 PT</td>
</tr>
<tr>
<td>MRes Medical Robotics and Image-Guided Intervention†</td>
<td>1Y FT</td>
<td>2:1 in a science or engineering subject. Applicants with a lower degree qualification but at least three years' work experience may be considered</td>
<td>X Standard</td>
<td>Home/EU: £10,600 FT</td>
</tr>
<tr>
<td>MRes Microbiology in Health and Disease*</td>
<td>1Y FT</td>
<td>2:1 in an appropriate science subject</td>
<td>X Standard</td>
<td>Home/EU: £10,400 FT</td>
</tr>
<tr>
<td>PG Cert Patient Safety</td>
<td>8 months PT</td>
<td>2:1 in a healthcare-related subject or policy management-related subject and/or an MBBS</td>
<td>X Higher</td>
<td>Overseas: £12,500 FT</td>
</tr>
<tr>
<td>PG Dip Patient Safety</td>
<td>16 months PT</td>
<td>X Higher</td>
<td>X Higher</td>
<td>See website for fee details (link under contact details below)</td>
</tr>
<tr>
<td>MSc Patient Safety</td>
<td>24 months PT</td>
<td>X Higher</td>
<td>X Higher</td>
<td>Home/EU: £5,300 FT</td>
</tr>
<tr>
<td>PG Dip Reproductive and Developmental Biology</td>
<td>6 months PT</td>
<td>2:1 in a biological science subject</td>
<td>X Standard</td>
<td>Home/EU: £5,300 FT</td>
</tr>
<tr>
<td>MSc Reproductive and Developmental Biology</td>
<td>1Y FT</td>
<td>2:1 in an appropriate science subject</td>
<td>X Standard</td>
<td>Home/EU: £10,400 FT</td>
</tr>
<tr>
<td>PG Dip Surgical Education</td>
<td>9 months PT</td>
<td>2:1 in a science, engineering, computing, healthcare or education subject plus basic computing experience and three years' relevant experience</td>
<td>X Higher</td>
<td>Home/EU: £6,480 FT</td>
</tr>
<tr>
<td>MD Ed Surgical Education</td>
<td>1Y FT / 2Y FT</td>
<td>X Higher</td>
<td>X Higher</td>
<td>Overseas: £26,000 FT</td>
</tr>
<tr>
<td>PG Cert Surgical Innovation</td>
<td>16 months PT</td>
<td>2:1 in a healthcare-related subject plus at least a year's clinical experience, preferably with some surgical training, or at least a year's experience in a relevant surgery-related area</td>
<td>X Standard</td>
<td>See website for fee details (link under contact details below)</td>
</tr>
<tr>
<td>MSc Surgical Innovation</td>
<td>2Y PT</td>
<td>X Standard</td>
<td></td>
<td>Home/EU: £5,300 FT</td>
</tr>
</tbody>
</table>
| MRes Toxological Science       | 1Y FT    | 2:1 in an appropriate science subject                                               | X Standard | Overseas: £12,500 FT   

### RESEARCH PROGRAMMES

<table>
<thead>
<tr>
<th>Degree</th>
<th>Duration</th>
<th>Entry Requirements</th>
<th>ATAS</th>
<th>FEE 2017–18 (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD Clinical Medicine</td>
<td>2–4Y FT</td>
<td>Normally applicants need to either hold an MBBS degree or hold or be studying for a Master's degree, and have a 2:1 in an appropriate subject</td>
<td>X Standard</td>
<td>Home/EU: £5,900 FT</td>
</tr>
<tr>
<td>MD(Res) Clinical Medicine</td>
<td>2–4Y FT</td>
<td>Normally applicants need to either hold an MBBS degree or hold or be studying for a Master's degree, and have a 2:1 in an appropriate subject</td>
<td>X Standard</td>
<td>Overseas: £31,200 FT</td>
</tr>
</tbody>
</table>

### CONTACT DETAILS

**All programmes**

- Alison Cambrey, Postgraduate Education Manager: a.cambrey@imperial.ac.uk
- www.imperial.ac.uk/study/pg/surgery-and-cancer

*The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
† See terms and conditions on page 115.
* These are specialist streams within the Biomedical Research MRes. When completing your application please indicate your stream choice in the first line of your personal statement. Other streams exist within other Faculty of Medicine departments.
§ This is a specialist stream within the Cancer Biology MRes.
∂ Run by the Institute of Global Health Innovation, see page 15.
¶ This is the complete fee for the course, not a yearly fee.
¶ This is the complete fee for the course, not a yearly fee.
* Applicants must gain support from a supervisor before applying.

For more information about our courses: www.imperial.ac.uk/study/pg
At Imperial College Business School, we find innovative solutions to global challenges and drive business advantage through the fusion of business and technology.

Our MBA and MSc programmes equip brilliant minds with the skills required to become the next generation of business leaders.
# Imperial College Business School courses

## Imperial College Business School

<table>
<thead>
<tr>
<th>MASTER'S COURSES</th>
<th>DURATION</th>
<th>ENTRY REQUIREMENTS</th>
<th>ATAS</th>
<th>ENGLISH REQ.*</th>
<th>FEE 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA Full Time MBA</td>
<td>Y FT</td>
<td>For entry requirements for all of our MBA and Master’s courses, please see: <a href="http://www.imperial.ac.uk/business-school/programmes">www.imperial.ac.uk/business-school/programmes</a></td>
<td>X</td>
<td>Higher</td>
<td>£31,000 FT</td>
</tr>
<tr>
<td>MBA Executive MBA</td>
<td>23 months PT</td>
<td></td>
<td>X</td>
<td>Higher</td>
<td>Home/EU and Overseas:</td>
</tr>
<tr>
<td>MBA Global Online MBA</td>
<td>2Y PT</td>
<td></td>
<td>X</td>
<td>Higher</td>
<td>TBC – will be published online once confirmed.</td>
</tr>
<tr>
<td>MBA Weekend MBA</td>
<td>21 months PT</td>
<td></td>
<td>X</td>
<td>Higher</td>
<td>Home/EU and Overseas:</td>
</tr>
<tr>
<td>MSc Business Analytics</td>
<td>Y FT</td>
<td></td>
<td>X</td>
<td>Higher</td>
<td>Home/EU and Overseas:</td>
</tr>
<tr>
<td>MSc Climate Change, Management and Finance</td>
<td>Y FT</td>
<td>(delivered in partnership with the Grantham Institute, see page 14)</td>
<td>X</td>
<td>Higher</td>
<td>TBC – will be published online once confirmed.</td>
</tr>
<tr>
<td>MSc Economics and Strategy for Business</td>
<td>Y FT</td>
<td></td>
<td>X</td>
<td>Higher</td>
<td>Home/EU:</td>
</tr>
<tr>
<td>MSc Finance</td>
<td>Y FT</td>
<td></td>
<td>X</td>
<td>Higher</td>
<td>Overseas:</td>
</tr>
<tr>
<td>MSc Finance and Accounting</td>
<td>Y FT</td>
<td></td>
<td>X</td>
<td>Higher</td>
<td>Home/EU:</td>
</tr>
<tr>
<td>MSc Innovation, Entrepreneurship and Management</td>
<td>Y FT</td>
<td></td>
<td>X</td>
<td>Higher</td>
<td>Overseas:</td>
</tr>
<tr>
<td>MSc International Health Management</td>
<td>Y FT</td>
<td></td>
<td>X</td>
<td>Higher</td>
<td>Home/EU and Overseas:</td>
</tr>
<tr>
<td>MSc Management</td>
<td>Y FT</td>
<td></td>
<td>X</td>
<td>Higher</td>
<td>Home/EU and Overseas:</td>
</tr>
<tr>
<td>MSc Risk Management and Financial Engineering</td>
<td>Y FT</td>
<td></td>
<td>X</td>
<td>Higher</td>
<td>Home/EU and Overseas:</td>
</tr>
<tr>
<td>MSc Strategic Marketing</td>
<td>Y FT</td>
<td></td>
<td>X</td>
<td>Higher</td>
<td>Home/EU and Overseas:</td>
</tr>
</tbody>
</table>

* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
† See terms and conditions on page 119.
‡ Courses start in September, with the following exceptions: Executive MBA (February); Global Online MBA (January and September); Weekend MBA (April); Climate Change, Management and Finance, International Health Management, and Strategic Marketing (all October).
§ Candidates will spend three weeks at our South Kensington Campus – one at the start of the first year and two at the start of the second year.
¥ This fee is fixed for both years and not subject to inflation.
\* This fee is provisional and subject to change. The final fee will be based on the UK Research Councils fee, which will be confirmed in Spring 2018, and published on our website: [www.imperial.ac.uk/pg/fees-and-funding/tuition-fees](http://www.imperial.ac.uk/pg/fees-and-funding/tuition-fees)

## DOCTORAL PROGRAMME

<table>
<thead>
<tr>
<th>DOCTORAL PROGRAMME</th>
<th>DURATION</th>
<th>ENTRY REQUIREMENTS</th>
<th>ATAS</th>
<th>ENGLISH REQ.*</th>
<th>FEE 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRes + PhD</td>
<td>1+4 Y FT</td>
<td>For entry requirements for the doctoral programme, please see: <a href="http://www.imperial.ac.uk/business-school/programmes/doctoral-degree">www.imperial.ac.uk/business-school/programmes/doctoral-degree</a></td>
<td>X</td>
<td>Higher</td>
<td>Home/EU:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Overseas:</td>
</tr>
</tbody>
</table>

For more information about our courses: [www.imperial.ac.uk/study/pg](http://www.imperial.ac.uk/study/pg)
Housed within our Centre for Languages, Culture and Communication, the Science Communication Unit delivers two taught Master’s courses that combine academic analysis with the development of practical and intellectual skills for students aiming for a career in science media, museums and policy.

Dr Stephen Webster was part of a team that produced a piece of musical theatre based on the life of Charles Darwin, which premiered in the Royal Albert Hall.

MSc Science Communication student Madeleine Finlay co-edits our student-run magazine I, Science, which was nominated for Best Specialist Publication by the Student Publication Association in 2017.

Alumnus Greg Foot (MSc Science Media Production 2006) is a BBC science presenter and an Engagement Fellow for The Wellcome Trust.
Science Communication Unit courses

Science Communication Unit

**Master’s courses**

<table>
<thead>
<tr>
<th>MASTER’S COURSES</th>
<th>DURATION</th>
<th>ENTRY REQUIREMENTS</th>
<th>ATAS</th>
<th>ENGLISH REQ.*</th>
<th>FEE 2018–19† (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Science Communication</td>
<td>FT/PT</td>
<td>2:1 in a scientific or science-related subject</td>
<td>X Higher</td>
<td>Higher</td>
<td>Home/EU: £9,600 FT, £6,800 PT, Overseas: £21,600 FT, £10,800 PT</td>
</tr>
<tr>
<td>MSc Science Media Production</td>
<td>FT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Research programmes**

<table>
<thead>
<tr>
<th>RESEARCH PROGRAMMES</th>
<th>DURATION</th>
<th>ENTRY REQUIREMENTS</th>
<th>ATAS</th>
<th>ENGLISH REQ.*</th>
<th>FEE 2018–19‡ (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD Science Communication research</td>
<td>2–4 FT / 4–6 PT</td>
<td>2:1 in an appropriate subject. Applicants must also normally hold or be studying for a Master’s degree. Please gain support from a supervisor before applying</td>
<td>X Higher</td>
<td>Higher</td>
<td>Home/EU: £4,265 FT, Overseas: £21,600 FT</td>
</tr>
</tbody>
</table>

**Contact details**

Master’s courses
E Liam Watson: liam.watson@imperial.ac.uk
Research programme
E Felicity Mellor: f.mellor@imperial.ac.uk

www.imperial.ac.uk/study/pg/science-communication

* The College has two levels of English language requirements: Standard and Higher. See page 65 for the requirements of each level.
† See terms and conditions on page 115.
‡ This fee is provisional and subject to change. The final fee will be based on the UK Research Councils fee, which will be confirmed in Spring 2018, and published on our website: www.imperial.ac.uk/pg/fees-and-funding/tuition-fees
¥ This fee is provisional and subject to review. The final fee will be published on our website once confirmed.

---

Martin Baron, from The Washington Post, visited the College to take part in a roundtable discussion with students and staff from our Science Communication Unit.

For more information about our courses:
www.imperial.ac.uk/study/pg
### A–Z directory

<table>
<thead>
<tr>
<th>TYPE</th>
<th>TITLE</th>
<th>DURATION</th>
<th>DEPARTMENT</th>
<th>CAMPUS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc</td>
<td>Advanced Computational Methods for Aeronautics, Flow Management and Fluid-Structure Interaction</td>
<td>1Y FT</td>
<td>Aeronautics</td>
<td>South Kensington</td>
<td>72</td>
</tr>
<tr>
<td>MSc</td>
<td>Advanced Computing</td>
<td>1Y FT</td>
<td>Computing</td>
<td>South Kensington</td>
<td>78</td>
</tr>
<tr>
<td>PhD</td>
<td>Advanced Computing: High Performance Embedded and Distributed Systems</td>
<td>4Y FT</td>
<td>Computing</td>
<td>South Kensington</td>
<td>78</td>
</tr>
<tr>
<td>MSc</td>
<td>Advanced Materials Science and Engineering</td>
<td>1Y FT</td>
<td>Materials</td>
<td>South Kensington</td>
<td>82</td>
</tr>
<tr>
<td>MSc</td>
<td>Advanced Mechanical Engineering</td>
<td>1Y FT</td>
<td>Mechanical Engineering</td>
<td>South Kensington</td>
<td>85</td>
</tr>
<tr>
<td>MSc</td>
<td>Advanced Nuclear Engineering</td>
<td>1Y FT</td>
<td>Nuclear Engineering</td>
<td>South Kensington</td>
<td>82</td>
</tr>
<tr>
<td>PhD</td>
<td>Aeronautics research</td>
<td>2–4 Y FT</td>
<td>Aeronautics</td>
<td>South Kensington</td>
<td>72</td>
</tr>
<tr>
<td>PG Cert</td>
<td>Allergy</td>
<td>9 months PT</td>
<td>Medicine</td>
<td>St Mary’s</td>
<td>96</td>
</tr>
<tr>
<td>MRes</td>
<td>Anaesthetics, Pain Medicine and Intensive Care</td>
<td>1Y FT</td>
<td>Surgery and Cancer</td>
<td>Varies by project</td>
<td>100</td>
</tr>
<tr>
<td>MRes</td>
<td>Aquaculture and Aquatic Animal Production</td>
<td>1Y FT</td>
<td>Biological Sciences and Aquatic Animal Production</td>
<td>South Kensington</td>
<td>81</td>
</tr>
<tr>
<td>MSc</td>
<td>Applied Biosciences and Biotechnology</td>
<td>1Y FT</td>
<td>Life Sciences</td>
<td>South Kensington</td>
<td>88</td>
</tr>
<tr>
<td>MSc</td>
<td>Applied Mathematics</td>
<td>1Y FT</td>
<td>Mathematics</td>
<td>South Kensington</td>
<td>91</td>
</tr>
<tr>
<td>MRes</td>
<td>Artificial Intelligence in Healthcare</td>
<td>1Y FT</td>
<td>Medicine</td>
<td>Varies by project</td>
<td>96</td>
</tr>
<tr>
<td>MRes</td>
<td>Biomedical Operations &amp; Management</td>
<td>1Y FT</td>
<td>Business School</td>
<td>South Kensington</td>
<td>89</td>
</tr>
<tr>
<td>MRes</td>
<td>Biomedical Research</td>
<td>2–4 Y FT</td>
<td>Biomedical Research</td>
<td>South Kensington</td>
<td>73</td>
</tr>
<tr>
<td>MSc</td>
<td>Bionanotechnology</td>
<td>2–4 Y FT</td>
<td>Chemistry</td>
<td>South Kensington</td>
<td>86</td>
</tr>
<tr>
<td>MSc</td>
<td>Bioinformatics and Theoretical Systems Biology</td>
<td>1Y FT</td>
<td>Life Sciences</td>
<td>South Kensington</td>
<td>86</td>
</tr>
<tr>
<td>MSc</td>
<td>Biomedical Engineering</td>
<td>1Y FT</td>
<td>Biomedical Engineering</td>
<td>South Kensington</td>
<td>73</td>
</tr>
<tr>
<td>MSc</td>
<td>Biomedical Research</td>
<td>2–4 Y FT</td>
<td>Biomedical Research</td>
<td>South Kensington</td>
<td>73</td>
</tr>
<tr>
<td>MSc</td>
<td>Biophysics</td>
<td>2–4 Y FT</td>
<td>Biomedical Research</td>
<td>South Kensington</td>
<td>105</td>
</tr>
<tr>
<td>PhD</td>
<td>Biophysics</td>
<td>2–4 Y FT</td>
<td>Biomedical Research</td>
<td>South Kensington</td>
<td>105</td>
</tr>
<tr>
<td>MSc</td>
<td>Biostatistics</td>
<td>1Y FT</td>
<td>Biological Sciences</td>
<td>South Kensington</td>
<td>88</td>
</tr>
<tr>
<td>MRes</td>
<td>Biotechnology</td>
<td>1Y FT</td>
<td>Biological Sciences</td>
<td>South Kensington</td>
<td>105</td>
</tr>
<tr>
<td>MSc</td>
<td>Business Analytics</td>
<td>1Y FT</td>
<td>Business School</td>
<td>South Kensington</td>
<td>104</td>
</tr>
<tr>
<td>MRes</td>
<td>Cancer Biology</td>
<td>1Y FT</td>
<td>Surgery and Cancer</td>
<td>Hammersmith</td>
<td>100</td>
</tr>
<tr>
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For more information about our courses: [www.imperial.ac.uk/study/pg](http://www.imperial.ac.uk/study/pg)
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<tr>
<td>MSc</td>
<td>Structural Steel Design</td>
<td>1Y / 2Y FT / 3Y FT</td>
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<td>South Kensington</td>
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<td>1Y FT</td>
<td>Surgery and Cancer</td>
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<td>Centre for Environmental Policy</td>
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<tr>
<td>MSc</td>
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<tr>
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<td>Surgery and Cancer</td>
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<td>EngD</td>
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<td>77</td>
</tr>
</tbody>
</table>

1 These are special streams within the Biomedical Research MRes, run by the Department of Surgery and Cancer (pages 100–101).
2 When applying for a PhD position, please indicate your stream choice in the first line of your personal statement.
3 Applicants should apply for the MRes in Clinical Research as the umbrella course and specify their preferred pathway in their application.
4 Can be a springboard to a PhD within the CDT of the same name – see the Research programmes on pages 92–93.
5 Apply through the University of Sheffield (see ucas admissions Sheffield.ac.uk).
6 The PG Certificate is a condition of direct entry to the MSc.
7 This is a specialist stream within the Cancer Biology MRes.
8 Double degree course within the Royal College of Art (RCA) – all applications must be made direct to the RCA.
9 The degree title awarded will be Medical Ultrasonography or Medical Ultrasound (Echocardiography) according to the subjects studied.
10 This is a stream within MSc Physics. Students choosing this stream graduate with an MSc in Physics with Nanophotonics.
11 Applicants should apply to the PG Certificate in the first instance. On successful completion, they have the option to progress to the PG Diploma and then the MSc. This is the only entry point to these higher courses.
12 Offers two streams: Global Health and Health Services and Systems.
13 Joint course with UCL.

**TERMS AND CONDITIONS**

**The Small Print**

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**Provision of courses**

Details of courses may change following publication. For up-to-date information, please check the relevant pages on the Postgraduate Study website: www.imperial.ac.uk/study/pg

**Tuition fees**

For courses lasting more than one year, the fee beyond the first year will increase by an amount linked to inflation unless specified otherwise – please see our tuition fee web pages for details: www.imperial.ac.uk/study/pg/fees-and-funding/tuition-fees

The College expects that EU students will continue to pay fees at the Home rate as long as the UK remains in the EU, and for the duration of their course provided this remains lawful. Please check the web link above for the latest updates to tuition fee information for EU students.

**Payment terms**

All new self-funded applicants to postgraduate taught and research Master’s programmes are required to pay a deposit as a condition of their offer. The deposit is set at 10% of the annual programme fee and will automatically be deducted from the full fee invoice. An invoice for the deposit, which will clearly show the date by which payment must be made, will be sent to the applicant via email within five working days of their acceptance of a conditional offer. The College normally starts invoicing for the balance of fees from spring onwards, and an invoice for the balance will be sent to the applicant via email shortly after full and final (unconditional) acceptance by the College. For sponsored applicants, receipt of the original of an official letter from the sponsoring organisation, indicating what the sponsorship covers and addressed to Imperial College London, will be required. In such cases, different arrangements for payment may apply.

**Data protection**

The College processes the personal data of applicants in order to manage the admissions process. The personal data of registered students is processed for administrative purposes, in the interest of students’ safety and wellbeing, for fulfilling the College’s legal obligations and for other legitimate reasons. Any processing of personal data will be made in accordance with the College’s Data Protection Policy and the Data Protection Act 1998. For further details please see: www.imperial.ac.uk/legal/services/office/dataprotection

**Faculty statistics**

Staff and student statistics on pages 71, 85, 95, 103 and 107 are total staff and student numbers per Faculty by headcount. All figures relate to the academic year 2016–17, with the exception of the research income statistics which relate to the financial year 2015–16.

**THANK YOU**

Principal photography: Thomas Angus, Fi Gaylor; Dave Guttridge/The Photographic Unit; Layton Thompson. Arranged and directed by Imperial College London.

Imperial is grateful to all the people who help us provide our students with their best shots in this year’s prospectus. The following additional photographs were provided courtesy of: p4 Joe McGorry, British Society for Haematology; p8 Chase Stone; p12 ESA; p15 Paul Grundy; p20 Caroline Purday; p24 Improvable; p25 Motion Metrics, Guillaume Coupe; p35 Research Information Network; p40 Alexander Yip; p45 London on View; p46 Berkeley First/GradPad; p54 Dr Veronika Bray; p55 STFC; p71 Queen’s Hospital; p85 ESA/At-M; p95 Royal Free London NHS Foundation Trust; p97 alexmackennaught.com; Madeleine Finlay

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