Imperial College
London

GLOBAL SUMMER SCHOOL

1–13 July or 5–17 August 2019
**WELCOME**

We’re on the lookout for the highest achieving students from all corners of the globe to join us for an unforgettable summer school experience.

Our two-week residential programme in the heart of London is a great way to develop your subject knowledge in science, engineering or medicine and add weight to a future university application.

- Learn from current teachers at a world top ten university* – the only one in the UK to focus solely on science, engineering, medicine and business.
- Take your subject knowledge to the next level through a challenging academic programme that includes lectures, laboratory sessions and a high level of practical work.
- Access professional advice and guidance on applying to study at university in the UK, especially to Imperial College London.
- Stay in real student accommodation on our South Kensington Campus.
- Enjoy a packed evening and weekend social programme to help you make the most of your time in London.

Read on to find out more about what Global Summer School has to offer you.

### 2019 PROGRAMME DATES

1–13 JULY or 5–17 AUGUST

**LOCATION**

Imperial College London,
South Kensington Campus,
London SW7 2AZ

*Imperial is ranked 3rd in Europe and 9th in the world in the Times Higher Education World University Rankings 2019*
Study

Imperial’s Global Summer School offers a unique experience for students. At its heart is an intensive two-week academic programme, giving students a taste of what it is like to learn at a world leading university.

With the choice of three academic streams – Engineering, Medicine and Life Sciences, and Physical Sciences – you will increase your specialist subject knowledge, gain practical skills and work with other outstanding students from across the globe.

ACADEMIC PROGRAMME

You will have over 50 hours of class time across the two-week programme. Teaching takes place from Monday to Friday, usually from 09.30 to 16.30, with a one-hour break for lunch.

Classes are based at the College’s main South Kensington Campus in central London in a range of lecture theatres, laboratories and seminar rooms. You will enjoy access to the same facilities used by our full-time students.

WHAT TO EXPECT

Global Summer School students work under the guidance of experts. In the first week, you will be taught by experienced academic staff in your chosen learning stream. The second week will focus on a team project challenge, led by Imperial College Advanced Hackspace – a community of makers, hackers, inventors and entrepreneurs drawn from across the College. Academic mentors will also be on-hand to support with subject content and offer insights into life as an Imperial student.
MASTERCLASSES
You will have the chance to attend masterclasses designed to prepare you for the university application process in the UK. Topics may include:

- How to apply to a UK university
- How to write a personal statement
- Interview skills

WEEK ONE: KNOWLEDGE BUILDING
You will start the programme in one of three learning streams. When you apply, you can choose which stream interests you the most and we will try to match you to your choice. The streams are:

- Engineering
- Medicine and Life Sciences
- Physical Sciences

Our academic sessions are designed and led by Imperial faculty staff. Through lectures and practical activities, you will learn about different subjects within your stream and gain insights into what it might be like to study within this field at degree level. You will also have the chance to develop a range of practical skills in workshops and laboratories, with guidance from our team of academic mentors.

“I enjoyed going to the lectures and also the laboratories – it really gave me a chance to get more insight into university life.”

PHILIP, HONG KONG
Previous Global Summer School student, current Medical Biosciences with Management student
Engineering

This stream combines elements of engineering and design, including specialist workshops delivered by different departments from Imperial’s Faculty of Engineering. You will be exposed to a range of content across this broad discipline; develop essential engineering skills; and work in groups to find solutions to real engineering challenges.

**TYPICAL PROGRAMME CONTENT**

Sessions in previous years have been led by academic staff from Chemical Engineering, Mechanical Engineering, Civil Engineering, Earth Science and Engineering, Material Sciences and Design Engineering. Sessions covered a range of topics through team challenges and practical experiments.

In 2018, Imperial’s Dyson School of Design Engineering led the final session, testing students’ creativity and practical skills. Working in teams, students learnt how to use simple physical computing tools and prototype mechanical solutions. They used this knowledge to design, build and test sumo wrestling robots.

“"I learned many new things... Global Summer School reassured me that I wanted to do Civil Engineering and that I wanted to come here and study.””

VASILIKI, GREECE
Previous Global Summer School student, current Civil Engineering student
Through a combination of classroom, workshop and laboratory sessions, the Medicine and Life Sciences stream will introduce you to key research techniques and new subject content. You will also learn key clinical skills in practical workshops led by health professionals at one of Imperial’s affiliated hospitals.

**TYPICAL PROGRAMME CONTENT**

In previous years, sessions included learning research and programming skills in epidemiology with the Schistosomiasis Control Initiative; studying the physiology of the urinary system through case studies and practical experiments; and exploring the cell biology of cancer through laboratory research.

In 2018, based in one of Imperial’s teaching laboratories, students learnt about the process of urine production, transfer and storage through a physiology lesson, practical experiment and an interactive case study which focussed on endocrinology and diabetes. Students then explored genetic codes and analysed the different types of mutations and inheritance patterns, before trying their hands at constructing a genogram.
The Physical Sciences stream focuses on the physics and mathematics of a central concept in the physical sciences. During the week you will participate in lectures, workshops and laboratory sessions, gaining theoretical knowledge and practical skills.

**TYPICAL PROGRAMME CONTENT**

In 2018, students studied oscillations as one of the most fundamental and far-reaching concepts in all of the physical sciences. Students collected data in a laboratory session and learnt computer programming skills. In teams, students worked on physics-based computer simulations, creating project presentations.

“One of the experiments we conducted was a very simple experiment about oscillations, but what was good about it was that they went further and showed us how to analyse it like a physicist would. It’s a different way of thinking which they introduced us to. We were shown how computing opens up a new way of analysis, and how it’s a very important skill.”

GAUTAM, DUBAI
Previous Global Summer School student, Global Summer School mentor in 2018, current Physics student
WEEK TWO: TEAM CHALLENGE

In week two, you will join a project group with students from other learning streams to work together to solve a real-world challenge. This is a chance for you to share expertise, show originality, and develop some of the key skills that you will use at university, including teamwork, presentation and communication skills.

We want to test your creativity, so we work with Imperial College Advanced Hackspace (ICAH) to design the real-world challenges for you to solve during the week. They are a community of makers, hackers, inventors and entrepreneurs, who will work with you to ideate, plan and prototype a solution to the given challenge. Previous project themes have included robotics for health, wearable technology, space and future vision.

Members of ICAH will also be involved in judging at the final showcase event, where groups will present their solutions, posters and prototypes in front of an audience of students and parents. Prizes are given to the best projects and you will also receive a certificate of participation, awarded by Imperial College London.
Live

All of our Summer School students stay in our halls of residence on campus. This provides a chance to experience what it is like to live away from home during your first year at university, something most of our new undergraduates experience.

**ON-SITE ACCOMMODATION**
You will be allocated a room in our Prince’s Gardens hall of residence on our South Kensington Campus.
- Most students will stay in a twin en-suite room with one other Global Summer School student of the same gender.
- All rooms are in single-sex clusters.
- Prayer facilities are available on campus.

Staying on-site means you’ll be a short walk from classes and a range of other campus facilities.

**MEALS INCLUDED**
The programme cost includes three freshly-prepared meals per day, served in one of our on-site catering outlets.

For full day trips, you will be provided with a packed lunch. Some meals may also be provided off-campus at the weekend or for evening trips. We can cater for a range of diets with advance notice.

**STUDENT SAFETY**
Your safety is of great importance to us.
- All halls of residence have swipe card or fob entry, CCTV and 24-hour manned security offices.
- A residential team of pastoral mentors provide round-the-clock support and supervision in each hall of residence.
- Key members of staff hold qualifications in child protection.
- Summer School staff and mentors supervise all organised trips.

“\[quote image\] The buildings were super nice. We were in halls so that was great, I got to see what my room would be like.”

**ANNE, FRANCE**
Previous Global Summer School student, current Mechanical Engineering student
Enjoy

Our packed programme of social activities and events will show you why London so richly deserves its title as the world’s best student city*.

Included in the cost of the Global Summer School is a busy evening and weekend social programme, conducted under the supervision of our pastoral mentors. The types of activities that our social programme typically includes are:

- a day trip to Brighton, a popular UK seaside resort;
- visits to nearby museums and galleries;
- sightseeing tours of London;
- trip to a West End musical;
- on-campus activities, including sports.

“We got to see a lot of London. We didn’t only see South Kensington: we went to Covent Garden, saw a musical, went to Brighton – we got to see a lot.”

VASILIKI, GREECE
Previous Global Summer School student, current Civil Engineering Student

*Ranked 1st in the world in the QS Best Student Cities 2018.
Our Campus

Our South Kensington campus is surrounded by some of London’s most famous cultural treasures including Hyde Park, Kensington Gardens, Natural History Museum, Science Museum, V&A, and the Royal Albert Hall.

“I was just blown away by how modern it is. It’s a really nice campus in a really good location; it was very convenient to travel to places.”

KRISTY, UK
Previous Global Summer School Student, current Biomedicine student
ROYAL ALBERT HALL
World-famous concert hall where Imperial students graduate.

QUEEN’S TOWER
The heart of our South Kensington Campus.

ETHOS SPORTS CENTRE
Gym facilities including swimming pool and climbing wall for Imperial students.

PRINCE’S GARDENS
Where you’ll stay while you’re here.

HYDE PARK
Home to the Serpentine Lake and 350 acres of parkland.

SCIENCE MUSEUM
Covering all areas of science and technology.

VICTORIA & ALBERT MUSEUM
The world’s largest museum of decorative arts and design.

NATURAL HISTORY MUSEUM
Home to more than 80 million specimens.
Applications for the Global Summer School open on 8 January 2019.

**WHO ARE WE LOOKING FOR?**
We're looking for applicants who demonstrate the following qualities:
- enthusiasm for science, technology, engineering and mathematics;
- excellent academic ability, demonstrated by a majority of predicted or received A*-A grades at GCSE level or equivalent, with a minimum of a grade A in maths and science;
- strong English language skills;
- clear motivation for attending the Global Summer School.

**WHAT IS THE AGE REQUIREMENT?**
To enrol on the Global Summer School you:
- must be 16 years old on or before 31 August 2019.
- you should not reach 18 years old before or during your Global Summer School session.

**HOW MUCH DOES IT COST?**
The cost of one residential place on the 2019 Global Summer School is £4,590. This all-inclusive fee covers:
- tuition, course materials, masterclasses and a certificate of participation awarded by Imperial;
- full board, on-site accommodation, including three meals per day;
- use of selected campus facilities;
- evening and weekend social programme;
- airport transfers for Gatwick and Heathrow on the first and last days of the programme.

**HOW DO I APPLY?**
**ALL APPLICATIONS MUST BE MADE ONLINE VIA THE GLOBAL SUMMER SCHOOL WEBSITE.**

You will need to supply:
- Details about your academic grades and English language ability
- A short personal statement
- Parent and teacher reference details

Please note:
- Places are limited and will fill on a first-come, first-served basis
- Entry criteria apply
- Your place will not be confirmed until full payment is received within 14 days of an unconditional offer being made

For further application guidance and to apply online, visit:

www.imperial.ac.uk/global-summer-school
The programme had students from all over the world, but the one thing that unified us was our interest in science.”

GAUTAM, DUBAI
Previous Global Summer School student, Global Summer School mentor in 2018, current Physics student
IN NUMBERS: GLOBAL SUMMER SCHOOL 2018

295 students

50 countries represented

96% would recommend the programme to friends

Honesty, it was one of the best experiences of my life.”
SUNNY, SOUTH KOREA
Previous Global Summer School student, current Material Engineering student.

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Global Summer School 2018

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APPY ONLINE NOW

www.imperial.ac.uk/global-summer-school

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The information in this brochure is current at the time of printing, January 2019, and is subject to change.