

Imperial College
London

2022 GLOBAL SUMMER SCHOOL



 imperial.ac.uk/global-summer-school





7TH BEST UNIVERSITY IN THE WORLD

QS World University Rankings 2022

UNIVERSITY OF THE YEAR

The Times and Sunday Times
Good University Guide

6TH MOST INTERNATIONAL UNIVERSITY IN THE WORLD

Times Higher Education World
University Rankings 2022

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 physics, engineering or medicine and add weight to a future university application.

- » Learn from faculty members 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.



IN NUMBERS GLOBAL SUMMER SCHOOL 2021

470 STUDENTS

50 NATIONALITIES

99%

WOULD RECOMMEND THE
PROGRAMME TO FRIENDS



ACADEMIC PROGRAMME

Imperial's Global Summer School offers a unique experience for students. At its heart is an intensive 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 Physics — you will increase your specialist subject knowledge, gain valuable skills and work with other outstanding students from around the world.

Lessons are delivered in a variety of formats including lectures, seminars and practical sessions, enabling students to gain valuable insight into what it might be like to study their subject at degree level.



“ I wanted to attend Global Summer School because **I wanted to experience what it's like to study at one of my dream universities.** ”

AGNA, HONG KONG, PHYSICS

MASTERCLASSES

Masterclasses run throughout the programme and are designed to prepare you for the university application process in the UK. Topics have previously included:

- » Applying to UK universities
- » How to write a personal statement
- » Interview skills
- » Careers in STEM



ENGINEERING

“ I have a much greater understanding and appreciation of the different types of engineering and how they play a role in my chosen degree subject. ”

ANOUSHKA, ENGLAND, ENGINEERING

TYPICAL PROGRAMME CONTENT

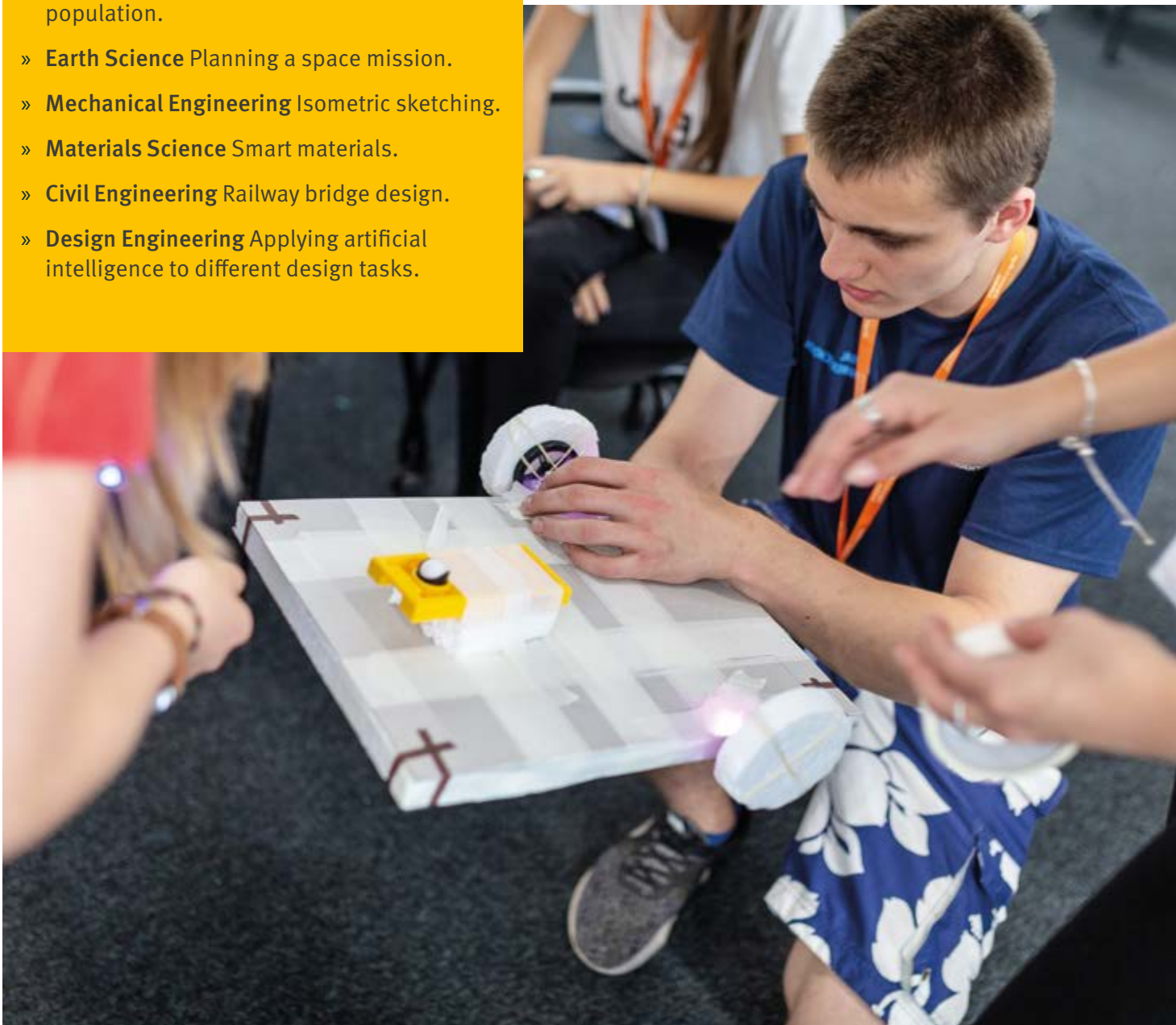
Engineering topics have previously included:

- » **Chemical Engineering** Providing enough clean drinking water to the global population.
- » **Earth Science** Planning a space mission.
- » **Mechanical Engineering** Isometric sketching.
- » **Materials Science** Smart materials.
- » **Civil Engineering** Railway bridge design.
- » **Design Engineering** Applying artificial intelligence to different design tasks.

Combining elements of engineering and design, this highly interactive stream will expose you to a variety of engineering disciplines.

You'll attend specialist workshops, lectures and seminars to develop key skills and work in groups to find solutions to current engineering challenges.

You will be given unique insight from Imperial academics with different engineering backgrounds, to understand the many applications of engineering disciplines.



MEDICINE AND LIFE SCIENCES

Through a combination of classroom, workshop and laboratory sessions, Medicine and Life Sciences will introduce you to new research techniques and 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

Medicine and Life Sciences topics have previously included:

- » Cancer biology and infectious disease.
- » Investigative medicine and diabetes as a major global health problem.
- » The urinary system.
- » Clinical skills including blood pressure, blood glucose and NEWS scoring.
- » Modern approaches to the identification and isolation of genes.



“ I enjoyed learning new topics, getting hands on experience about what life as a medical student at Imperial would be like, and meeting new people. ”

KASHVI, INDIA,
MEDICINE AND LIFE SCIENCES





PHYSICS

This stream focuses on the physics and mathematics of a central concept in the physical sciences.

Through lectures, workshops and laboratory sessions, you'll learn to look at a problem or physical situation using three different tools: the mathematics of calculus; performing experiments; and simulating the situation using a computer.

You'll then combine your newly honed programming skills with theoretical knowledge to complete a team-based project.

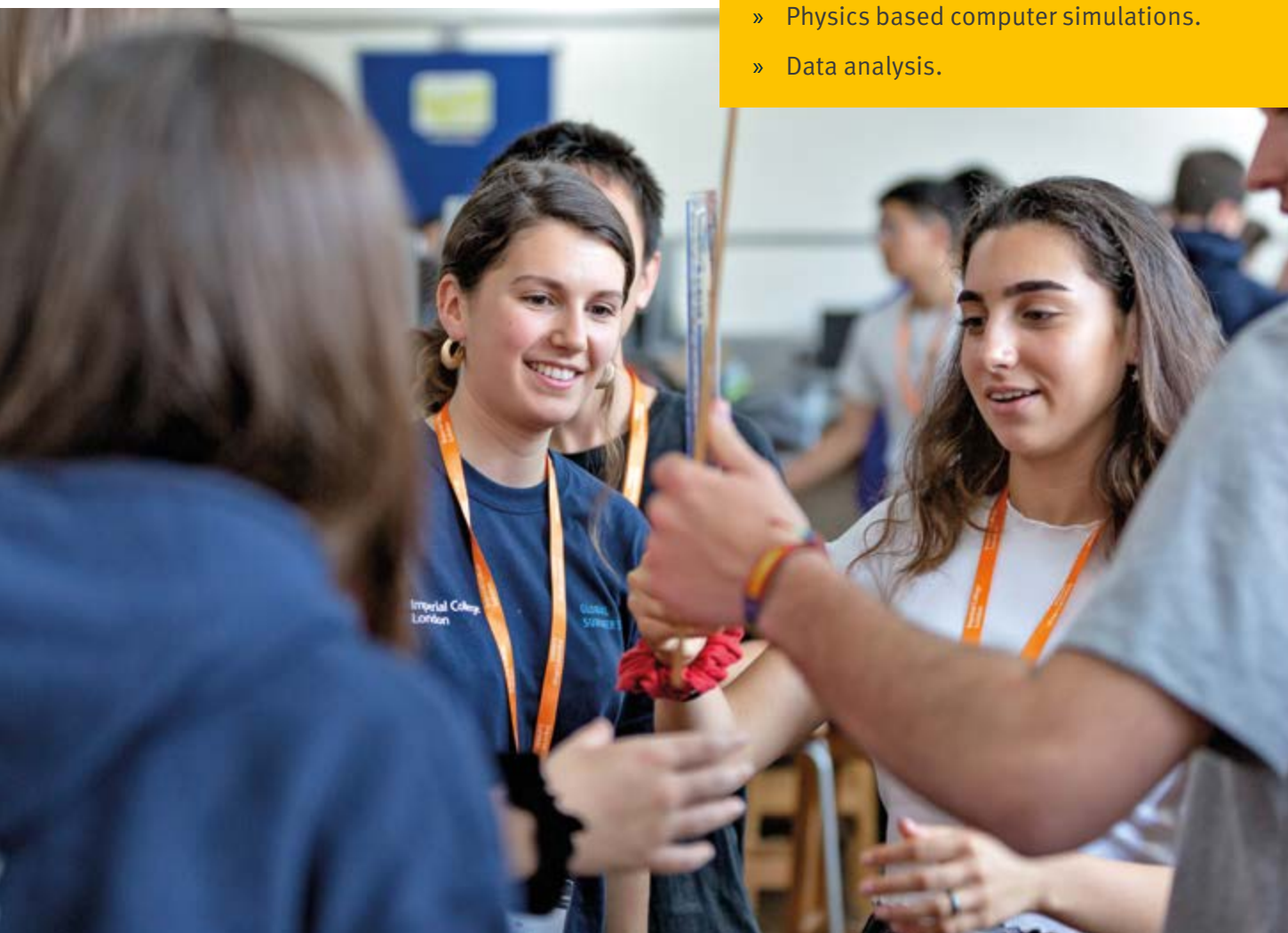
“ I liked the ability I have acquired to understand physics from both a mathematical and computational perspective, and mixing both.”

GERMÁN, SPAIN, PHYSICS

TYPICAL PROGRAMME CONTENT

Physics sessions have previously included:

- » Mathematics of calculus.
- » Error handling and Jupyter introduction.
- » Basic Python.
- » Damping coefficient and gravitational acceleration experiments.
- » NumPy SciPy Matplotlib Python programming language.
- » Physics based computer simulations.
- » Data analysis.



STEM CHALLENGE

In second part of the programme, you will come together with students from other academic streams to share expertise and help to solve a real-world challenge facing our society, with a focus on entrepreneurship.

The STEM Challenge is led by the Imperial Enterprise Lab, a group of industry experts, and is a chance for you to develop vital skills you will need at university such as presentation, communication and group work, whilst working on a project that combines aspects from all academic streams.

You will work with project leaders to evolve an idea to answer the challenge question, considering how it can be developed as a business, product, initiative, or concept. You will then be introduced to pitching before working in teams to develop a pitch for the final showcase event.



“ I loved the collaboration and solving of a relevant problem. ”

NICK, SINGAPORE, MEDICINE AND LIFE SCIENCES



ACCOMMODATION

During the programme you will stay in our Prince's Gardens halls of residence on campus in South Kensington.

This provides a chance to experience what it is like to live away from home during your first year at university and means that you're only a short walk from classes and a range of other campus facilities.

Accommodation will be offered in mixed-sex clusters, with single sex clusters available if required. Students will stay in a twin room with one other Global Summer School student of the same gender. Students are only permitted to access the accommodation cluster they have been allocated.

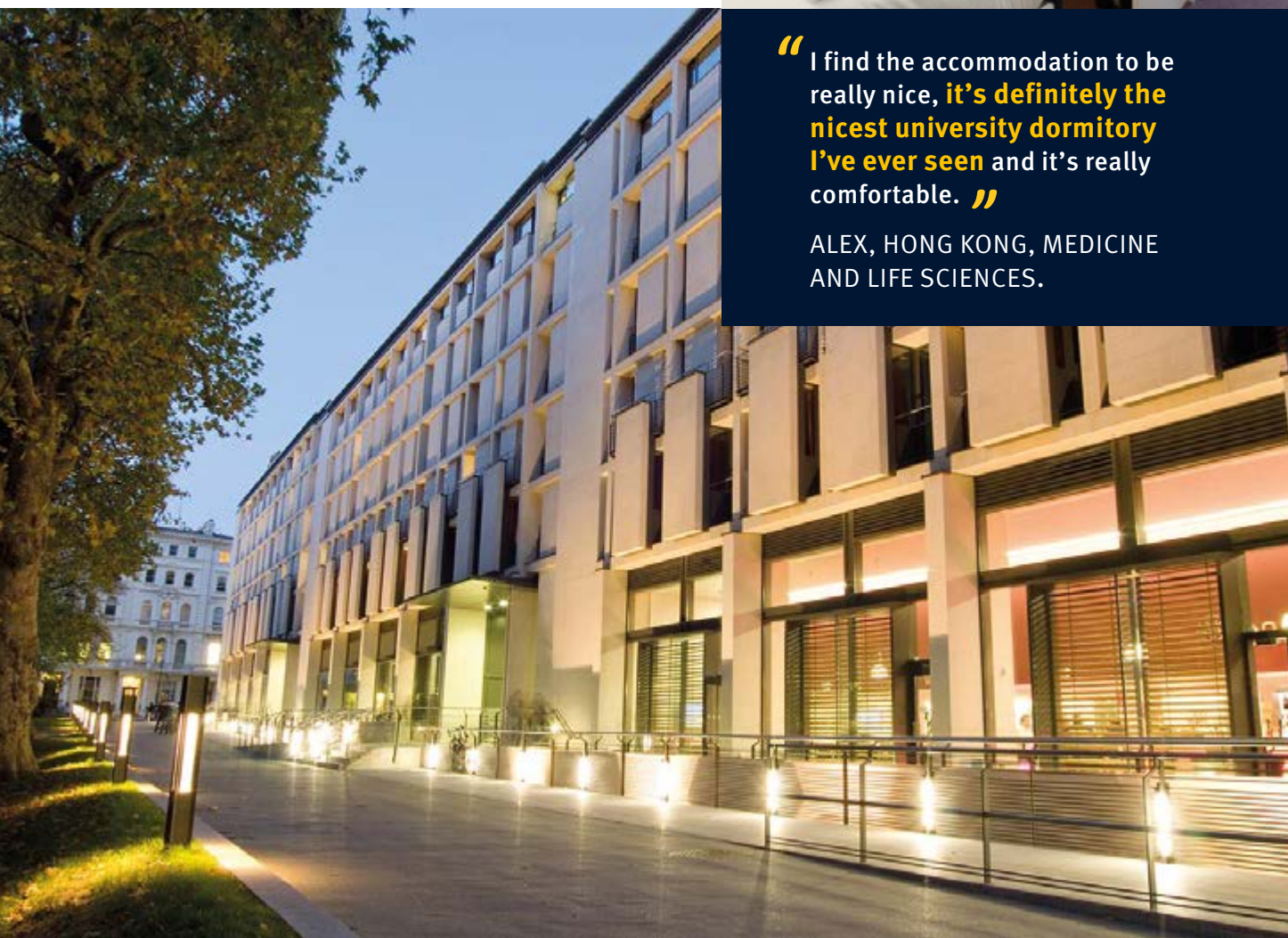
All rooms include:

- » En-suite shower and toilet facilities with toiletries
- » Free Wi-Fi (Sky Cloud)
- » Linen (sheets, pillow and blanket) and towels
- » Kettle with tea and coffee



“ I find the accommodation to be really nice, **it's definitely the nicest university dormitory I've ever seen** and it's really comfortable. ”

ALEX, HONG KONG, MEDICINE AND LIFE SCIENCES.





MEALS INCLUDED

The programme cost includes three freshly prepared meals per day. 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.

“ **London is a very international city.** It’s a great place to meet with other people from all around the world. ”

JORGE, UK, ENGINEERING

STUDENT SAFETY AND SUPPORT

Your safety is of great importance to us.

- » All halls of residence have swipe card entry, CCTV and 24-hour manned security offices.
- » Prayer facilities are available on campus.
- » A residential team of pastoral mentors provide round-the-clock support and supervision in each hall of residence.
- » Key members of staff hold safeguarding qualifications.
- » Global Summer School staff and mentors supervise all organised trips.





Hyde Park

Home to the Serpentine Lake and 350 acres of parkland

Royal Albert Hall

World-famous concert hall where Imperial students graduate

Ethos Sports Centre

Where you'll participate in sports activities

Queen's Tower

The heart of our South Kensington Campus



Prince's Gardens

Where you'll stay while you're here

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

OUR CAMPUS

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

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. Social activities and excursions in previous years have included:

- » 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.



“ My favourite social activity was going to Brighton because **I had the chance to go and discover another city.** ”

CHIARA, ITALY, PHYSICS



* Ranked 1st in the world in the QS Best Student Cities 2022.

APPLY

Applications for the Global Summer School are now open.



Programme dates

4–16 July or 8–20 August 2022

Who we are 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 9-7 grades (A*–A) at GCSE level or equivalent, with a minimum of a grade 7 (A) in maths and science;
- » strong English language skills;
- » clear motivation for attending the Global Summer School.

Age requirements

To enrol on the Global Summer School you:

- » must be 16 years old at the start of the programme;
- » you should not reach 18 years old before or during your Global Summer School session.

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

Programme fee

The cost of one residential place on the 2022 Global Summer School is £5,295. 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.



For further application guidance and to apply online visit imperial.ac.uk/global-summer-school



2022 PROGRAMME

Dates: 4–16 July or 8–20 August

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

The information in this brochure is current at the time of production, February 2022, and is subject to change. All images were taken during the 2019 programme, prior to any Covid restrictions.

This brochure presents information about the 2022 Global Summer School programme, as it would operate under normal circumstances. We may have to make changes should restrictions still be in place as a result of COVID-19. Please keep an eye on our website for information about potential changes to our courses and teaching delivery.

HOW TO APPLY

For full details of the application process, please visit

imperial.ac.uk/be-inspired/global-summer-school/applying

STEP ONE

Complete an online application form and submit academic information including academic and English language qualifications.

STEP TWO

We will contact your parent or guardian, and teacher and ask them for a reference.

STEP THREE

Your application will be reviewed and, if you are successful, you will receive a conditional offer. You will then have seven days to upload your supporting documents.

STEP FOUR

Your documents will be checked and if they meet the necessary criteria, you will receive a formal unconditional offer.

STEP FIVE

To confirm your place, you will need to make full payment of the programme fee within 14 days or receiving your unconditional offer.

APPLY ONLINE NOW



imperial.ac.uk/global-summer-school