

# Global Space Design Challenge Summer Programme 2021



To apply now,  
call Education Advisers Ltd  
on +44 (0) 1622 813870  
or visit  
[GSDC APPLY](#)



## Imperial College London

Saturday 10th July - Wednesday 21st July 2021

For students aged 15 - 18

# Interested in joining a company as part of an Industrial Simulation?

**Be the president of your own company, a lead engineer or space scientist at this prestigious STEM event**

This is an intensive residential summer programme designed for the highest achieving students throughout the world.

It offers you the opportunity to learn from academics and business leaders at a world-class university - culminating in a two-day challenge patterned after the UK Space Design Competition (UKSDC) and the International Space Settlement Design Competition (ISSDC).

Eight students selected from the winning company of the challenge will be invited to attend either the USDC National Finals or the ISSDC held at NASA's Kennedy Space Centre, Florida\*

Discover hidden talents within yourself  
Stand out from the crowd and impress your peers  
Improve your written and verbal presentation skills  
Gain a competitive edge with your University Application

Space settlements are designed by engineers with the help of doctors, lawyers and scientists.

If you are looking to be an engineer, space scientist, automation expert or business manager, this course is for you!

The background image is a composite. On the left, there is a close-up of the Imperial College London building's facade, showing the name 'Imperial College London' in large, blue, three-dimensional letters. On the right, there is a photograph of a lecture hall. A group of people are standing at the front of the hall, facing a large audience seated at round tables. Two large projection screens are visible at the front, displaying text. The overall scene suggests an academic or professional event.

## As a participant you will:

Be mentored by world-class academics and industry experts

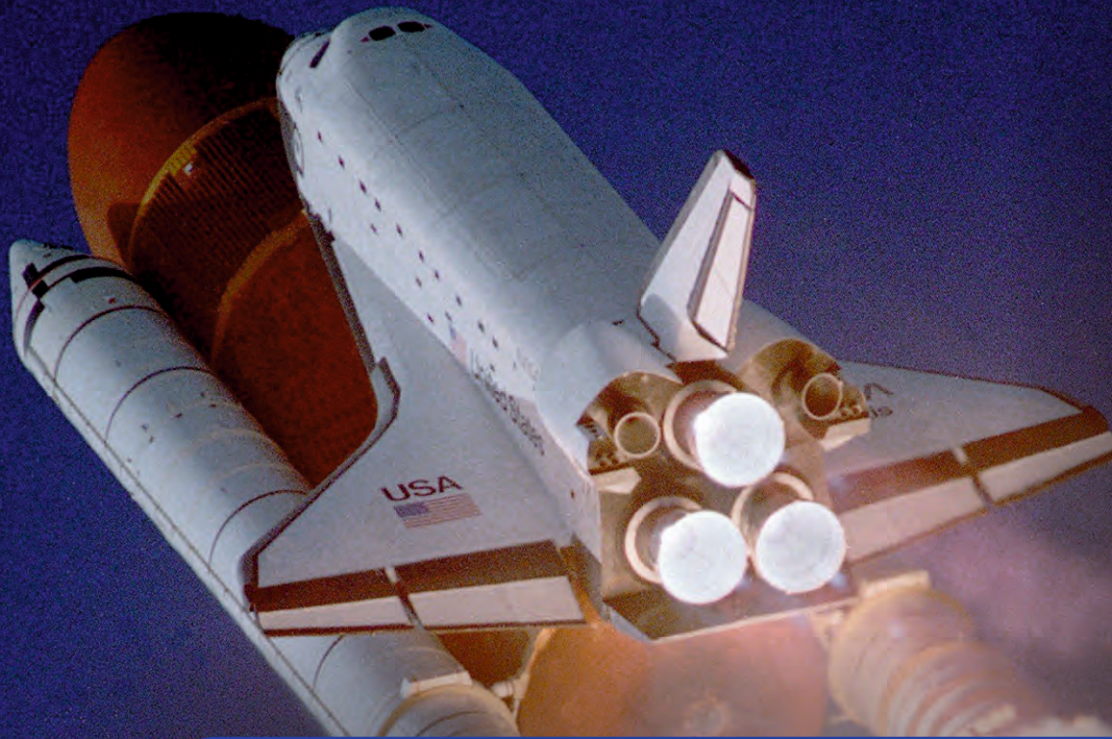
Take your subject knowledge to the next level through an intensive academic programme of lectures, seminars and practical sessions

Access professional advice and guidance with University applications, including customised tours and lectures at both the Universities of Oxford and Cambridge

Work as a team; designing and a settlement in space and experience the joys and challenges of working in a large industrial company

Enjoy meeting like-minded students and make lifelong friends. In spite of the intensive study programme, there will be opportunities to enjoy social activities and some of the attractions that London has to offer

Receive a valuable course achievement and competition medal



Learn from industry experts and design a futuristic space settlement as an aerospace engineer, designer, medical expert or robotics designer.

## THE CHALLENGE:

The challenge is modelled on the work of the UK Space Design Competition - which has been successfully running educational events in the UK for the past 12 years - founded by Dr. Randall S. Perry.

Dr. Perry is the Senior Research Investigator at Imperial College, London and Honorary Chairman of the Space Science Engineering Foundation (a UK charity).

Start times	Saturday 10th July	Sunday 11th July	Monday 12th July	Tuesday 13th July	Wednesday 14th July
07:00					BREAKFAST
07:30					DEPART FOR OXFORD
08:00		BREAKFAST	BREAKFAST	BREAKFAST	
09:00	ARRIVAL MEET & GREET (Heathrow or Gatwick Airports)   				

Start times	Thursday 15th July	Friday 16th July	Saturday 17th July	Sunday 18th July	
07:45		BREAKFAST			
08:00	BREAKFAST		BREAKFAST	BREAKFAST	
08:30		08.30 DEPART FOR CAMBRIDGE UNIVERSITY  10:30 Tour Cambridge University			
09:00	Satellites and Remote Sensing		RFP	09:00 introduction to the Space Design Competition	
09:30					
10:00					
	Systems and Security Engineering		Company Organisation	10:30 Company Officer Selection  11:00 Department Presentations	
10:30	BREAK		BREAK		
11:00	Robotics		Managing Companies		
12:00		LUNCH	LUNCH	LUNCH	
12:30	LUNCH	WORKSHOP  Computing Workshop	WORKSHOPS  Presenting Skills Writing Skills  Leadership and Communication	Space Design Challenge	
13:00					
13:30					
	Laboratory Workshop High Performance Liquid Chromatography and Mass Spectrophotometry on Organic Chemicals from Space			Space Design Challenge	
14:00					
15:00					
17:00	DINNER	DINNER	DINNER	DINNER	
18:00					
19:00	MOVIE	DEPART FOR LONDON			

Start times	Monday 19th July	Tuesday 20th July	Wednesday 21st July
08:00	BREAKFAST		
09:00	<div>09:00</div> <div>Turn in Designs</div> <div>10:00</div> <div>COMPANY PRESENTATIONS</div> <div>Each Company will have 30 minutes plus 10 minutes judges questions</div> <div>11:30</div> <div>Post It's with Jenny Lyons</div>	<div>10:00</div> <div>Open Top Bus Tour of London</div> <div>London Embankment</div> <div>Buckingham Palace</div> <div>London Bridges</div> <div>Tower of London</div>	FAREWELLS AND DEPARTURES FOR HOME
10:00			
10.30			
11:00			
12:00	LUNCH		
13:00	Judges Presentation and Winning Company Announcement		
14:00	FREE TIME		
15:00			
15:45			
16:00	AWARDS	River Dinner Cruise on Thames and Fun Presentation Awards	
17:00	DINNER		
18:00			

## Selected Guest Speakers



Dr Randall Perry

SSEF & SDC Founder

Senior Research Investigator,  
Imperial College London,  
Royal Society Fellow and  
University of Oxford Fellowship



Marcus du Sautoy

FRS, OBE

Simonyi professor for the  
Public Understanding of Science  
and a Professor of Mathematics  
at the University of Oxford



Dr Richard Ghail

SSEF Trustee Chair

Lecturer in Engineering Geology,  
based in the Department of  
Civil and Environmental  
Engineering,  
Imperial College, London



Trisha Saxena

Alumni of the UKSDC  
and the ISDC

Final year at Imperial College,  
London, studying Physics



Alison Ahearn

Deputy Director,  
Galactic Challenge

Principal Teaching Fellow  
at Imperial College, London



Jeremy Curtis

Head of Education  
and Skills,  
UK Space Agency



Professor Mark Sephton

Head of the Department of  
Earth Science and Engineering,  
Imperial College, London



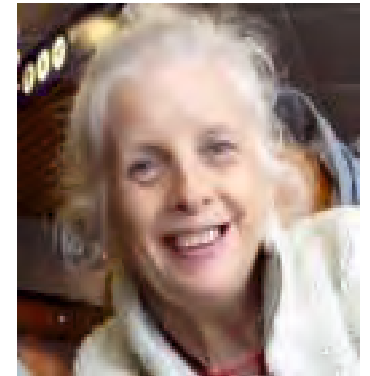
Scot Fisher

Opto-Mechanical Engineer,  
Surrey Satellite Technology Ltd



Kamogelo Thutoestile

Medical Doctor,  
studied at  
University of Cambridge,  
Alumni UKSDC & NASA ISSDC



Jenny Lyons

Director of Education Outreach,  
UK Space Science,  
Engineering Foundation

## Accommodation & Meals

All rooms are based in Imperial College, London, and are a short walking distance to the venue.

Rooms are shared between two people, however, other options are available upon request.

Breakfast, lunch and evening meals are included.\*\*

## Airport Meet & Greet

Students will be met at airport arrivals by a member of our staff. Transfers to accommodation will be provided.\*\*\*

## Mentors

Experienced Space Design alumni are available 24hrs a day for all participants.

## Further information

HEALTH - students will have access to a nurse, GP and hospital facility 24 hours a day.

CLIMATE - Summers have pleasant temperatures with **average** high temperatures around 21 degrees Celsius (70 degrees Fahrenheit) and night temperatures of 11 degrees Celsius (52 degrees Fahrenheit).



# Who are Education Advisers Ltd?

Education Advisers is an educational consultancy which provides impartial advice on placements into UK independent schools and universities. We provide bespoke advice directly to parents and students and also advise via partners such as embassies, for embassy staff's own children or enquiries from education ministries in their home countries.

Education Advisers is widely known for its 12 separate school league tables, published annually on [best-schools.co.uk](http://best-schools.co.uk) (read by more than one million visitors per year, because they are more accurate and comprehensive than any other published league tables.) For this reason, many parents approach us for advice on entry to top quartile schools and universities.

This is why we are using this brochure to promote the Space Design Course at Imperial College, London - the UK's top science university. We also have an additional "follow-on" summer course on STEM subjects at Oxford International College - the UK'S No.1 private school by A Level results in 2019.

We have a variety of fantastic academic summer programmes listed on our summer course website: [bestsummerschools.co.uk](http://bestsummerschools.co.uk)

**Education Advisers Ltd**

**The Old Stables**

**Home Farm, Red Hill,**

**Wateringbury**

**Kent ME18 5NN**

**Tel: +44 (0) 1622 813870 or [info@educationadvisers.co.uk](mailto:info@educationadvisers.co.uk)**



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\*The 12 students selected to visit NASA the following year  
will be liable for additional costs, not provided by the GSDC

\*\*Adult rooms available upon request

\*\*\*Collection/return only available from Heathrow/Gatwick airports

