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Global Space Design Challenge Summer Programme 2020

Imperial College London

Saturday 11th July - Wednesday 22nd July 2020





Impress your peers and enhance your University Application.
Be the president of your own company, a lead engineer or space scientist at this prestigious STEM event

Are you interested joining a 'Company' as part of An Industrial Simulation?

Space settlements are designed by engineers with the help of doctors, lawyers, scientists and engineers. If you want to be an engineer, space scientist, automation expert or business manager, this course is for you.

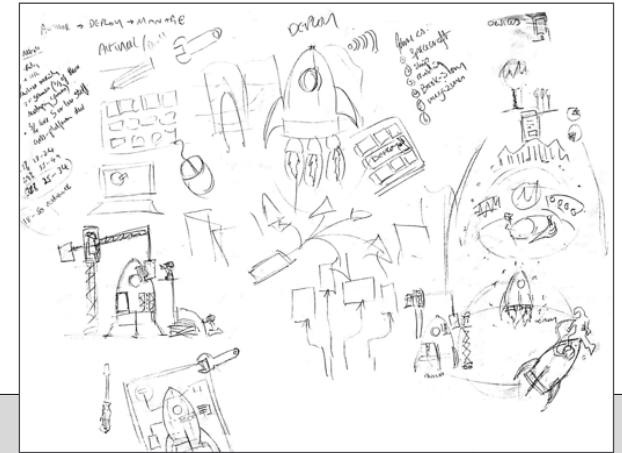


Get ahead of your peers
Stand out from the crowd
Gain a competitive edge with your University Application
Improve your written and verbal presentation skills
Find hidden talents

This is an intensive residential summer programme for the highest achieving students throughout the world. It offers you the chance 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 Center, Florida*





As a participant you will:

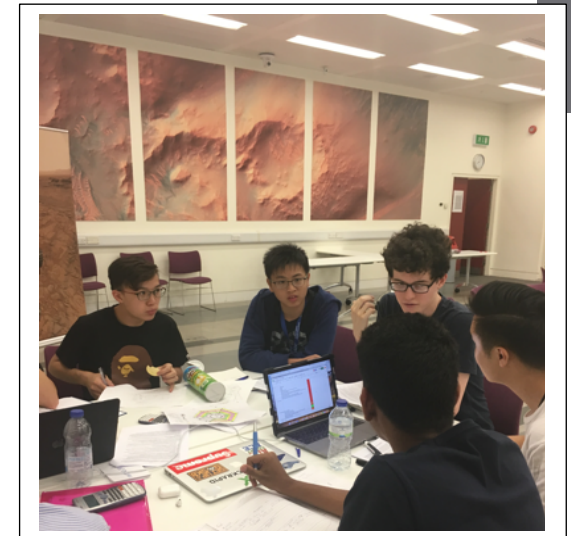
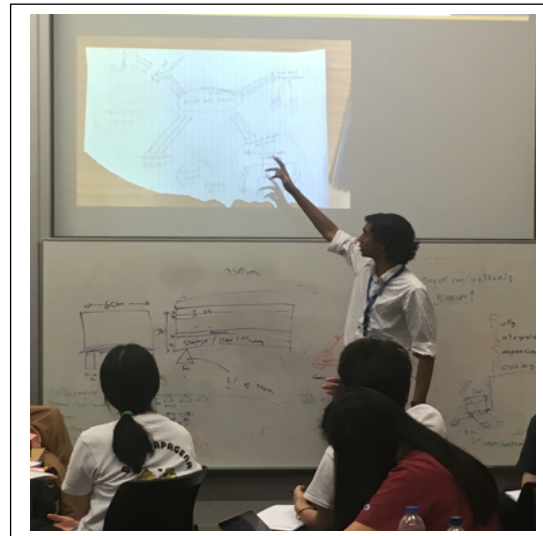
- Be mentored by world-class academics and industry experts
- Take your subject knowledge to the next level through an intensive academic programme of lectures, seminars and practical sessions.
- Access professional advice and guidance with University applications, including customized tours and lectures at both the Universities of Oxford and Cambridge.
- Work as a team design a settlement in space, and experience the joys and challenges of working in a large industrial company
- Enjoy meeting like minded students and make life-long 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 certificate of achievement and competition medal.

Design a space settlement as an aerospace engineer, designer, medical expert, or robotics designer. Learn from Industry experts, design a futuristic space settlement as part of a management team.



THE CHALLENGE

The challenge is modeled 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 a Senior Research Investigator, Imperial College London, and Honorary Chairman of the Space Science Engineering Foundation, a UK educational charity.



Start times	Saturday 11 th July	Sunday 12 th July	Monday 13 th July	Tuesday 14 th July	Wednesday 15 th July		
07:00					BREAKFAST		
07:30					DEPART FOR OXFORD		
08:00		BREAKFAST	BREAKFAST	BREAKFAST			
09:00	ARRIVAL MEET & GREET (Heathrow or Gatwick Airports)	Introduction to GSDC	Origins – Universe, Galaxy, Solar Systems, Planetary Bodies	Surface Structures and Architecture	09:30 Walking and College Tour of the Oldest College in Oxford and Pitt River Museum		
10:00			Importance of Planetary impacts and Mass Extinctions	Space Structures			
		BREAK				11:30 Mathematics Workshop	
11:00		GSDC TOPICS	Defining Life Astrobiology and The Search For Life In The Solar System and Universe	Electrical and Electronics Engineering			
12:00		Optional	LUNCH				
12.30		12:00 Victoria and Albert Museum	LUNCH				
13:00		Natural History Museum	Space Now And Space In The Future	Exploring Earth's Inner Space Deep Submersibles and Black Smokers		University Admissions	13:15 Crash Course in Thermodynamics and Rocketry
14:00		16:00 Victoria and Albert Museum	Geophysics	WORKSHOP CAD Computer Workshop		WORKSHOP Personal Statement	15:00 Rocket Launch Competition
15:00		Natural History Museum	Astrophysics				
16:00		The Human Body in Space					
17:30	DINNER	DINNER		DINNER			
18:00			DINNER		DINNER		
18:30		Ice Breaker Karaoke		Football Park activities	DEPART FOR LONDON		
19:00							

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

Start times	Monday 20 th July	Tuesday 21 st July	Wednesday 22 nd July
08:00	BREAKFAST		
09:00	09:00 Turn in Designs 10:00 COMPANY PRESENTATIONS Each Company will have 30 minutes plus 10 minutes judges questions 11:30 Post It's with Jenny Lyons	10:00 Open Top Bus Tour of London London Embankment Buckingham Palace London Bridges Tower of London	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 International Space
Design Competition

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

Scot Fisher is an Opto-
Mechanical Engineer Surrey
Satellite Technology Ltd



Kamogelo Thutoestsile

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



Jenny Lyons

Director of Education
Outreach
UK Space Science
Engineering Foundation



ACCOMODATION AND MEALS

All rooms are in Imperial College London, within a short walking distance to the venue. Rooms are two person shared however other options are available on request. Meals included are Breakfast, Lunch and Evening Meal.**

AIRPORT MEET AND GREET

Students will be individually met at airport arrivals by a member of our staff and transfers to accommodation will be provided.***

MENTORS

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

Further Information

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

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



For more information contact us at:

enquiries@gspacedc.com

Call +44 (0) 7986928535/ 7584190961

<https://gspacedc.com>

* the twelve students selected to go to NASA the following year will have additional costs not provided by the Global Space Design Challenge

** Adult rooms available upon request

*** Collection/Return only available from Heathrow or Gatwick Airports

Global Space Design Challenge Ltd, 143 Old Church St, London, SW3 6EB, England Company registration 10789489



GLOBAL SPACE DESIGN CHALLENGE