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# Global Space Design Challenge Online Programme 2020

Imperial College London

Friday 17<sup>th</sup> July - Sunday 19<sup>th</sup> 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.

This is an intensive online 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.

The programme is patterned after the UK Space  
Design Competition (UKSDC) and the  
International Space Settlement Design Competition  
(ISSDC).



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



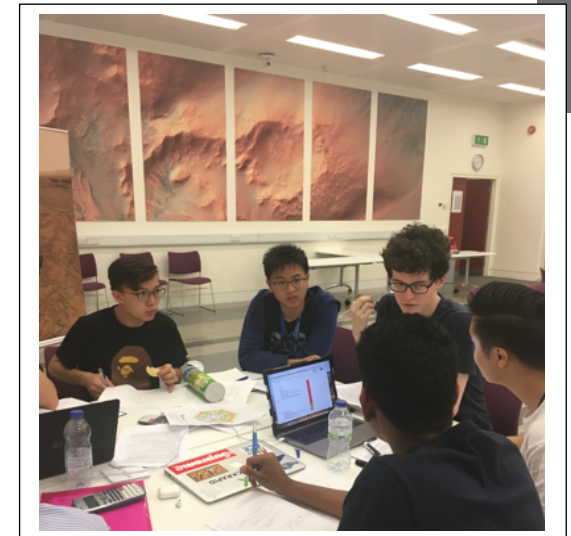
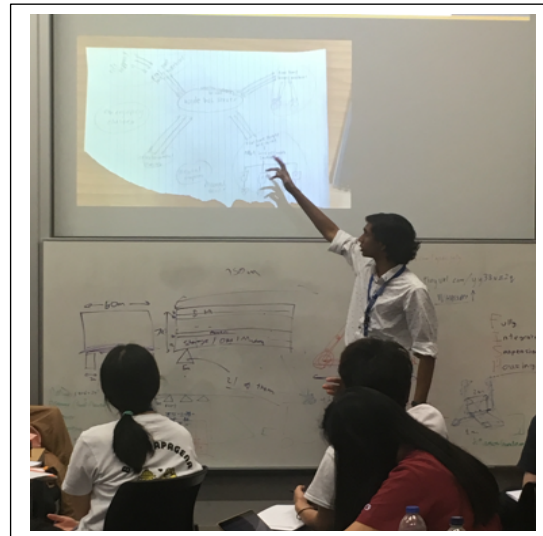


Design a space settlement as an aerospace engineer, designer, medical expert, or robotics designer. Learn from Industry experts, design a futuristic space settlement as part of a management team.



## 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	Friday 17 <sup>th</sup> July	Saturday 18 <sup>th</sup> July	Sunday 19 <sup>th</sup> July	
08:00		Introduction to the Space Design Challenge	Submit Design Presentations	
08:20				
08:25				
08:30		Quiz	Introduction of Judges	
08:45				
08:55				
09:00		How Companies Work	Space Bus Z presentation	
09:25				
09:30			Vesta Constructors presentation	
09:45				
09:55		Structural Engineering or Human Engineering		
10:00				
10:25				
10:30	Introduction to Programme and Companies		Stratus Aerospace	
10:45				
10:55				
11:00	Communication	Automation Engineering or Operation Engineering	Imperial Space Systems	
11:15				
11:25			Judges Deliberation and the Jenny Lysons Hour	
11:30		Management		
11:55				
12:00	Presenting	Company Virtual Headquarters – meet team members		
12:25				
12:30	RFP	Officer Selection	Judges Presentation	
12:55				
13:00	How to win and what are the rules?			Winning Company Announcement
13:15				
13:25				
13:30		Receive RFP and begin work		

## 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**

Scott 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





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**GLOBAL SPACE DESIGN CHALLENGE**