

GLOBAL SPACE DESIGN CHALLENGE WORLD FINALS  
19th-24th July 2023, Imperial College, London



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BUSINESS AND TEAMWORK THAN  
YOU EVER IMAGINED POSSIBLE



**GLOBAL SPACE DESIGN CHALLENGE  
WORLD FINALS 2023**



# The Programme

The GSDC is a science, design, engineering and business challenge designed as a simulation of life in industry.

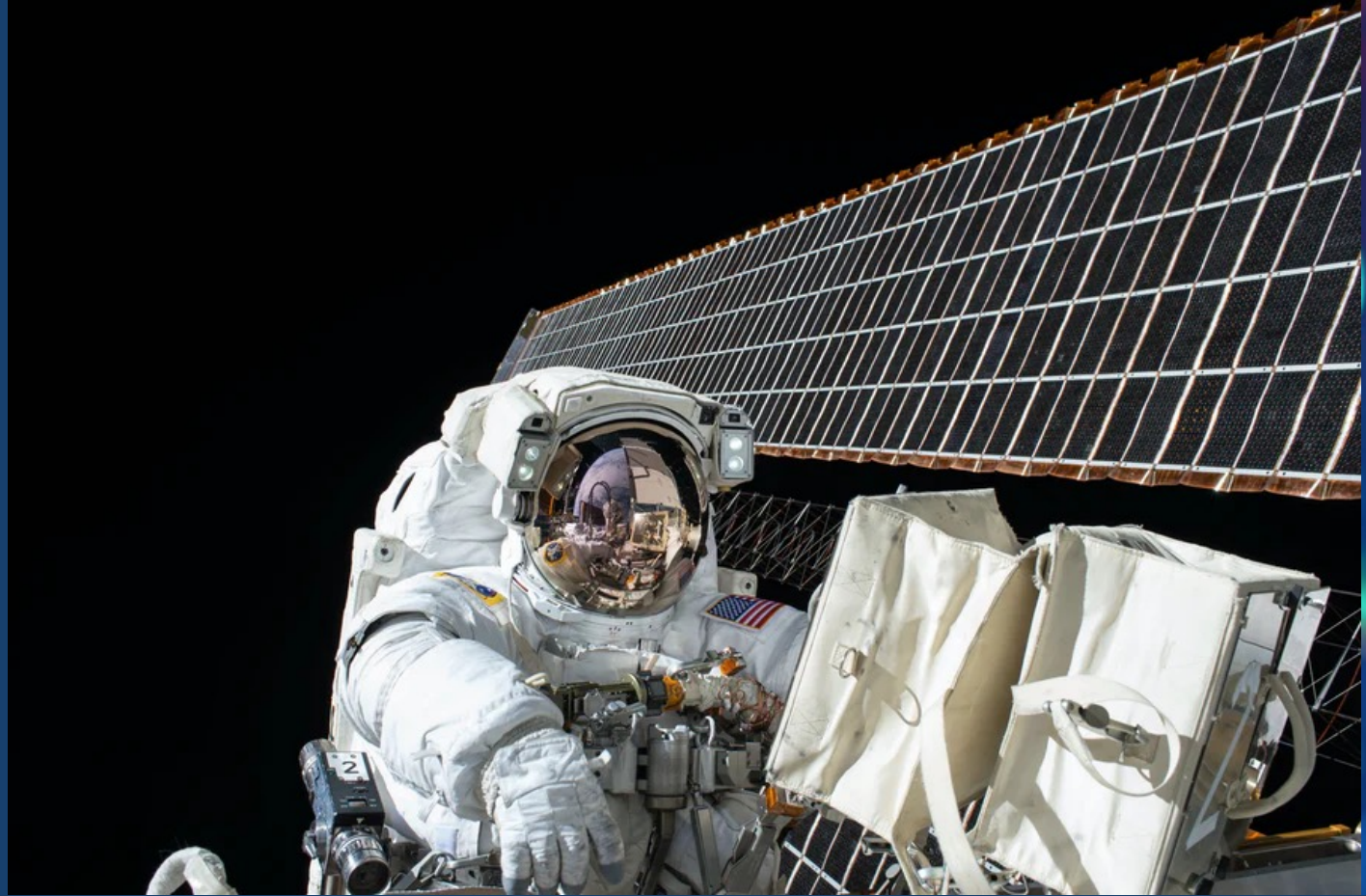
This programme is a four-day, five-night immersive residential course based at Imperial College, London for students aged 15-18 years old. (Younger students by permission)

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

Teams are given a list of requirements for a space settlement and are tasked with producing a detailed design which they present to a panel of judges from industry, academia and business.

As a participant you will be introduced to and mentored by industry experts and past competitors who have competed worldwide and at NASA's Kennedy Space Center.

You will receive a valuable course certificate of achievement and other awards.



## Our Vision

Global Space Design Challenge is an intensive industry simulations competition for students from around the world.



INVEST IN YOUR FUTURE

# MEET OUR TEAM



**Dr Randall Perry**

SSEF & SDC Founder, He has held a Royal Society Fellowship at Imperial College London and University of Oxford



**Marcus du Sautoy  
FRS, OBE**

Simonyi professor for the public understanding of science, and a professor of mathematics at the University of Oxford



**Professor Richard Ghail**

London. An SSEF Trustee Chair. He is a professor of Engineering at Royal Holloway University formerly a lead ESA investigator for the mission to Venus.



**Dr Helen Oliver**

PhD from the University of Cambridge and a specialist in wearable technology.



**Professor Mark  
Sephton**

Former Head of the Department of Earth Science and Engineering, Imperial College London. Mars sample return scientist for the ESA and SSEF Trustee Board member.

Our team of experts are here to inspire and guide you on your educational journey and to help you develop a successful strategy for your future.



**Ingmar Kamalagharan**  
 Ingmar is the Education and Outreach Manager at the UK Space Agency. He works in partnership with UKSA and ESA and UK space industry to lead events that use space to encourage the uptake of STEM. He has a Masters degree from UCL in Astronomy.



**Jian Hoseri**  
 SSEF Trustee. After completing his Master's degree in Chemical Engineering at Imperial College London, he currently works as a reliability engineer in the petroleum industry.



**Alina Vizireanu**  
 An advocate of exploring the world and beyond. For this she has studied Geospatial Information Systems and Physical Geography to Master's degree at University of Bucharest.



**Sahba El-Shawa**  
 Regional coordinator for the Europe Space Design Competition based in Strasbourg, France. Originally from Jordan, she attended the German-Jordan University for three years before getting her BSc in Mechanical Engineering at the University of British



**Alison Ahearn**  
 A Principal Teaching Fellow at Imperial College, London teaching Civil Engineering, Law and management.



**Jenny Lyons**  
 SSEF Director of Education and Outreach. She has a BSc from University of West Minister in Biological Sciences.



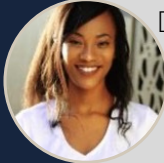
**Dr Elizabeth Day**  
 Lizzie is a geophysics senior teaching fellow. She coordinates courses on Physical Processes, Geophysical Data Processing and Analysis, and the Physics of Planet Earth



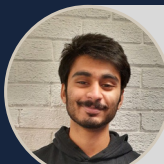
**Dr Riki Hihinashvili**  
 She has earned her PhD degree from Imperial College in physics of porous materials and now lives in Israel where she works as a researcher in a start-up company.



**Trisha Saxena**  
 Graduated from Imperial College in 2019 with a Masters in Physics. While studying she was recognised as the female graduate of the year in 2017.



**Dr Kamogelo Thutoetsile**  
 Has a medical degree from the University of Cambridge. She has a BA in Neuroscience and is particularly interested in Neurosurgery.



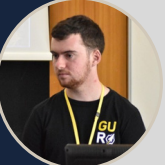
**Shayne Beegadhur**  
 Fourth year Aeronautical Engineering MEng student at Loughborough University. Experienced competitor, volunteer and board member for the UKSDC. Mechanical Systems Director for Conex Research.



**Sir Christian Sweeting**  
 Chairman of Palace Investments and is engaged in a number of charitable endeavours.

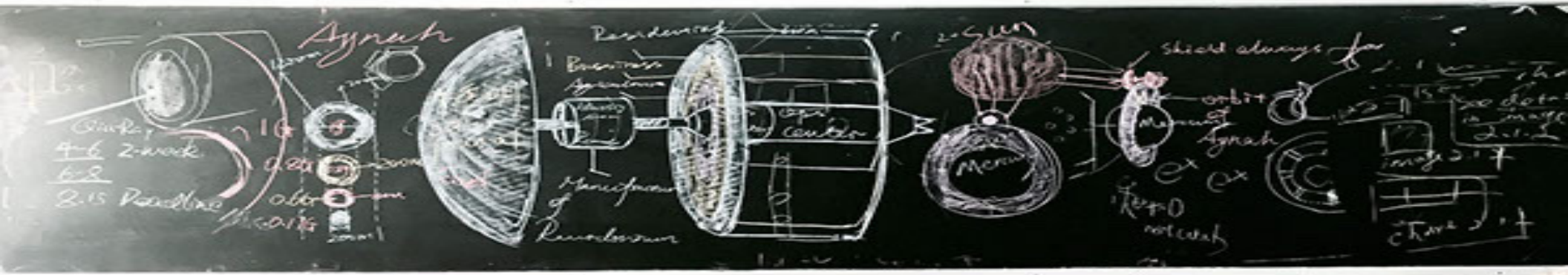


**Dr Elizabeth Luthman**  
 An aeronautics researcher at Imperial College. Her PhD was in hypersonics. She is currently at California Institute of Technology (CALTECH) and JPL.



**James Hayes**  
 Third Year Aerospace Systems Student at the University of Glasgow with work experience in Manufacturing, Mechanical and Quality Control fields. UKSDC Board Member and Lead Engineer at GU Rocketry.





## The GSDC

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 15 years, founded by Dr RS Perry. Dr Perry has held a fellowship at University of Oxford and as an Imperial College London Royal Society Fellow. He is the Honorary Chairman of the Space Science Engineering Foundation and the founder of the UK, EU, Middle East and Africa educational charity.



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# Timetable

## Day One

- Arrival day and an opportunity to explore Imperial College and the surrounding area accompanied by one of our team.

## Day Two

- An Introduction to the GSDC
- Talks from the GSDC team, including Professors and Lecturers from Imperial College, London and University of Oxford, who will give an insight into the competition and show you how your engineering, science and business skills can be used in the GSDC.
- An overview of the challenge with a Technical briefing introducing the different departments within your company.

## Day Three - Day Four

- Students work in companies of up to 50 people and are given a Request for Proposal from a fictional client.
- They work on their detailed designs after electing a President and Heads of Department to run their company.
- Each company will be mentored by Industry experts and Technical Advisors throughout.

## Day Five

- Each Company presents their designs to a panel of Judges from Industry, Academia and Business.
- A winning team will be chosen by the Judges
- Award dinner in the evening

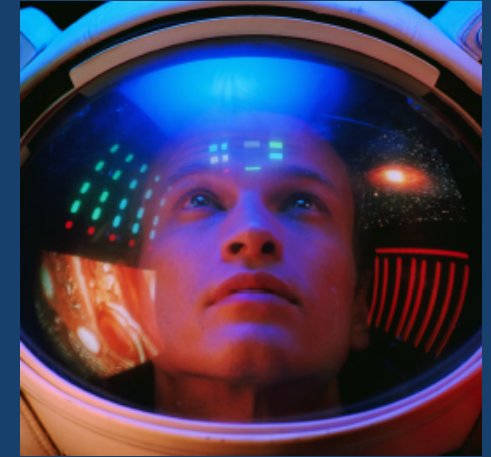
## Day 6

- Breakfast and departure day





## FAQs



How much does it cost and what is included?

The cost of the programme is £2195.00 for UK & EU students and £2695.00 for the rest of the world. Included in the fee:

- campus accommodation at Imperial College for five nights.
- Hot breakfast, dinners and a packed lunch.
- Lectures and mentoring from Academia and Industry experts
- Official certificate of completion.

How do I get to the Imperial Campus?

Imperial College is located less than 20 miles from London Heathrow Airport, with easy transport links by train, underground or taxi. London Gatwick Airport is a short 30 minute train journey to central London and then a quick trip on the underground. We can also arrange for a member of our team to meet you at either Heathrow or Gatwick and bring you directly to your accommodation.

Do I require a visa?

If you hold a UK or EU passport you should not require a visa to attend our programme. If you are from outside the EU, we suggest you search the UK Government website to check requirements. For students that require a visa we can send an official acceptance letter to use in your visa application.

# Who are Education Advisers Ltd?

Education Advisers are an educational consultancy, providing impartial advice on UK placements into UK independent schools and universities.

Many parents approach us for advice on entry to top quartile school and universities and we are delighted to be able to promote the Global Space Design Challenge for 2023 at Imperial College, London - the UK's top science university.

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



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For more information call: +44 (0)1622 813870  
or email:

[steven@educationadvisers.co.uk](mailto:steven@educationadvisers.co.uk)

