

Welcome!

**Careers with Impact:
Meet the Engineers who #ShapeTheWorld**



MAYOR OF LONDON



@INWED1919 @STEMLondonHub @MayorOfLondon
#INWED20 #ShapeTheWorld

Ask your questions!

Ask a question

Ask anonymously

▶

Engineering Sectors

Engineering is one of the few career options that spans *every* sector, from sport to space. So whatever you care most about, there will be some engineering involved.

Health, beauty & lifestyle

Gaming, robots & VR

Construction

Electronics

Energy & sustainability

Nature, animals & the environment

Entertainment

Sport

Transport

Food

Medicine

Space

Art, fashion & design

Why you should consider Engineering?

Engineers are in demand

- Engineers and technicians are the most in demand jobs in the world
- Over 2.65 million UK engineering jobs need filling by 2024

Engineers are paid well

- Engineering apprentices earn significantly more than the national apprentice minimum wage
- The average starting salary for engineering and technology graduates is around 10% higher than the average graduate starting salary.

Engineers make a difference

- Engineers work to improve people's lives
- You can help to solve some of the world's big problems



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

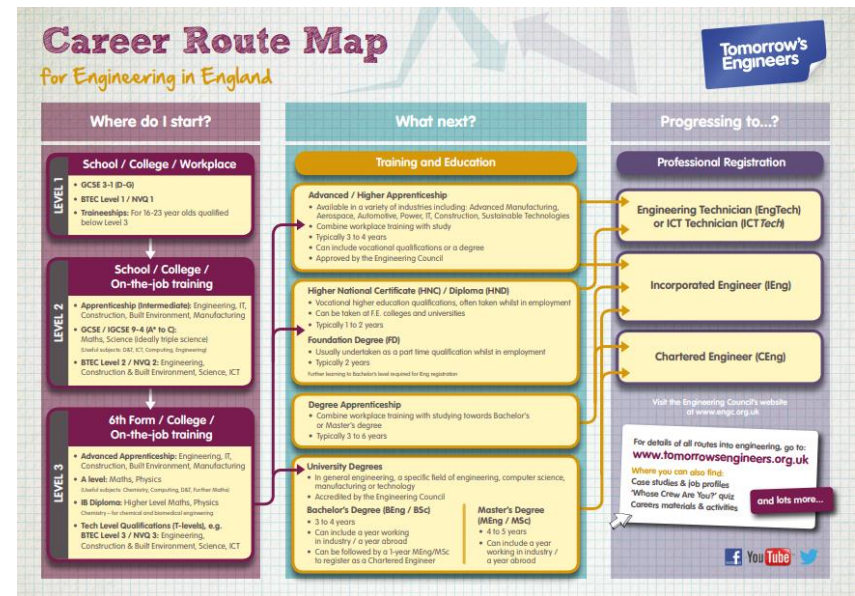
1 NO POVERTY 	2 ZERO HUNGER 	3 GOOD HEALTH AND WELL-BEING 	4 QUALITY EDUCATION 	5 GENDER EQUALITY 	6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY 	8 DECENT WORK AND ECONOMIC GROWTH 	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 	10 REDUCED INEQUALITIES 	11 SUSTAINABLE CITIES AND COMMUNITIES 	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION 	14 LIFE BELOW WATER 	15 LIFE ON LAND 	16 PEACE, JUSTICE AND STRONG INSTITUTIONS 	17 PARTNERSHIPS FOR THE GOALS 	

Routes into Engineering

6th Form / College /
On-the-job training

LEVEL 3

- **Advanced Apprenticeship:** Engineering, IT, Construction, Built Environment, Manufacturing
- **A level:** Maths, Physics
(Useful subjects: Chemistry, Computing, D&T, Further Maths)
- **IB Diploma:** Higher Level Maths, Physics
Chemistry – for chemical and biomedical engineering
- **Tech Level Qualifications (T-levels), e.g. BTEC Level 3 / NVQ 3:** Engineering, Construction & Built Environment, Science, ICT



STEM Ambassadors

- Science, technology, engineering and mathematics (STEM) STEM Ambassadors volunteer and inspire young people in STEM
- Jobs from scientists to designers, technicians and engineers
- Over 30,000 volunteers across the UK.
- STEM Ambassadors can be requested to volunteer in your school, local library, youth group and more

www.stem.org.uk



Meet the Engineers



Virginia



Alexandra



Carolina



Bianca

Virginia Ruiz Albacete

Business Performance analysis Manager

What do I do

- Analyse areas to develop new offshore wind
- Find ways to make projects more competitive and reduce cost for consumers
- Partner with developers in other Countries to support the expansion of renewables
- Ensure projects are economically strong to last many years



My path to engineering

- Electrical & Telecommunications Engineer
- Worked in banking sector for 2 years
- Quit & back to uni: Master in Renewable Energies
- Started again as an intern and loved it!



Alexandra Knight

Technical Director, Amey Consulting

What do I do

- Infrastructure Innovation combining data & technology with engineering
- Work in a team with diverse skills
- Manage budgets & timescales

My path to engineering

- Chose engineering to “open doors”
- Initially focussed on bioengineering
- Then chose consultancy for variety
- Worked in defence, energy, transport, medical, sport engineering



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



Carolina Escudero

Business Development Manager – Heavy Transport



What do I do

- Develop low-emission vessel and port projects
- Attend meetings and calls with clients
- Speak about emissions on the marine sector
- Use engineering knowledge and tools (especially Excel!) to determine the best project for a client

My path to engineering

- Originally wanted to be a Doctor or Architect
- Changed from Electronic Engineering
- Started working even before finishing my career
- I moved from Colombia to Sweden, then the Netherlands and then UK! Next stop...who knows?



Bianca Cefalo

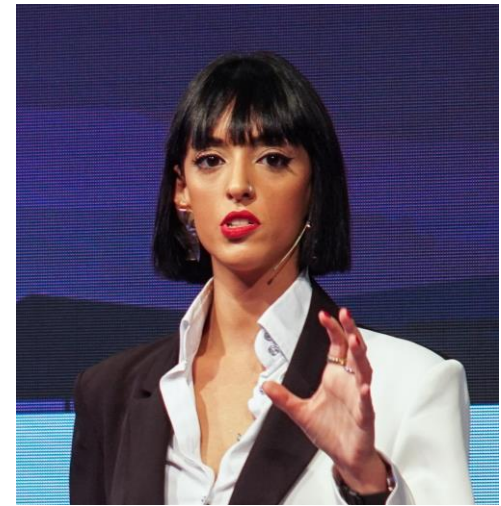
Space Systems Product Manager

What do I do:

- Manage & Develop innovative solutions on next generation telecommunication satellites
- Lead teams across Europe and USA
- Attend Conferences, Meetings and Public Speaking Events with Customers & Space Agencies

My path to engineering:

- Science & Maths High School, Italy
- Bachelor Degree in Aerospace Engineering, Italy
- 1 year Formula SAE Competition, Italy
- Master in Aerospace & Astronautics Engineering, Italy – whilst working with German Space Agency in Berlin



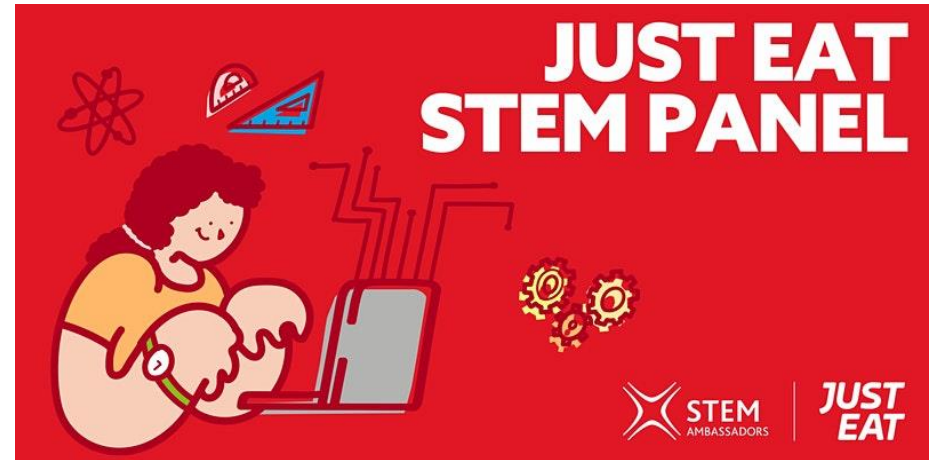
Ask your questions!

Ask a question

Ask anonymously

After the event

- 1) Complete the [feedback form](#)
- 2) JustEat Careers Panel on [9th July](#)
- 3) Find out more about Engineering



Find out more

- This Is Engineering thisisengineering.org.uk
- Engineering: Take a Closer Look engineering.gov.uk
- Tomorrow's Engineers tomorrowsengineers.org.uk
- How do I become an engineer <https://www.tomorrowsengineers.org.uk/students/how-do-i-become-an-engineer/>
- STEM Learning resources: www.stem.org.uk/resources
- Women's Engineering Society www.wes.org.uk/
- International Women In Engineering Day inwed.org.uk

Find out more

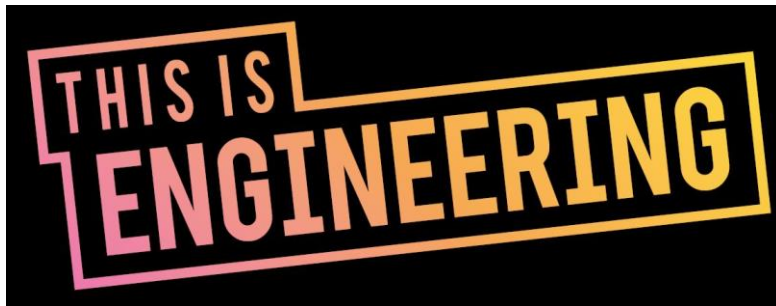


**INTERNATIONAL WOMEN
In ENGINEERING DAY**
23 June 2020

inwed.org.uk

**Tomorrow's
Engineers**

tomorrowsengineers.org.uk



thisisengineering.org.uk



TAKE A CLOSER LOOK

engineering.gov.uk



**INTERNATIONAL WOMEN
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Thank You!

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