

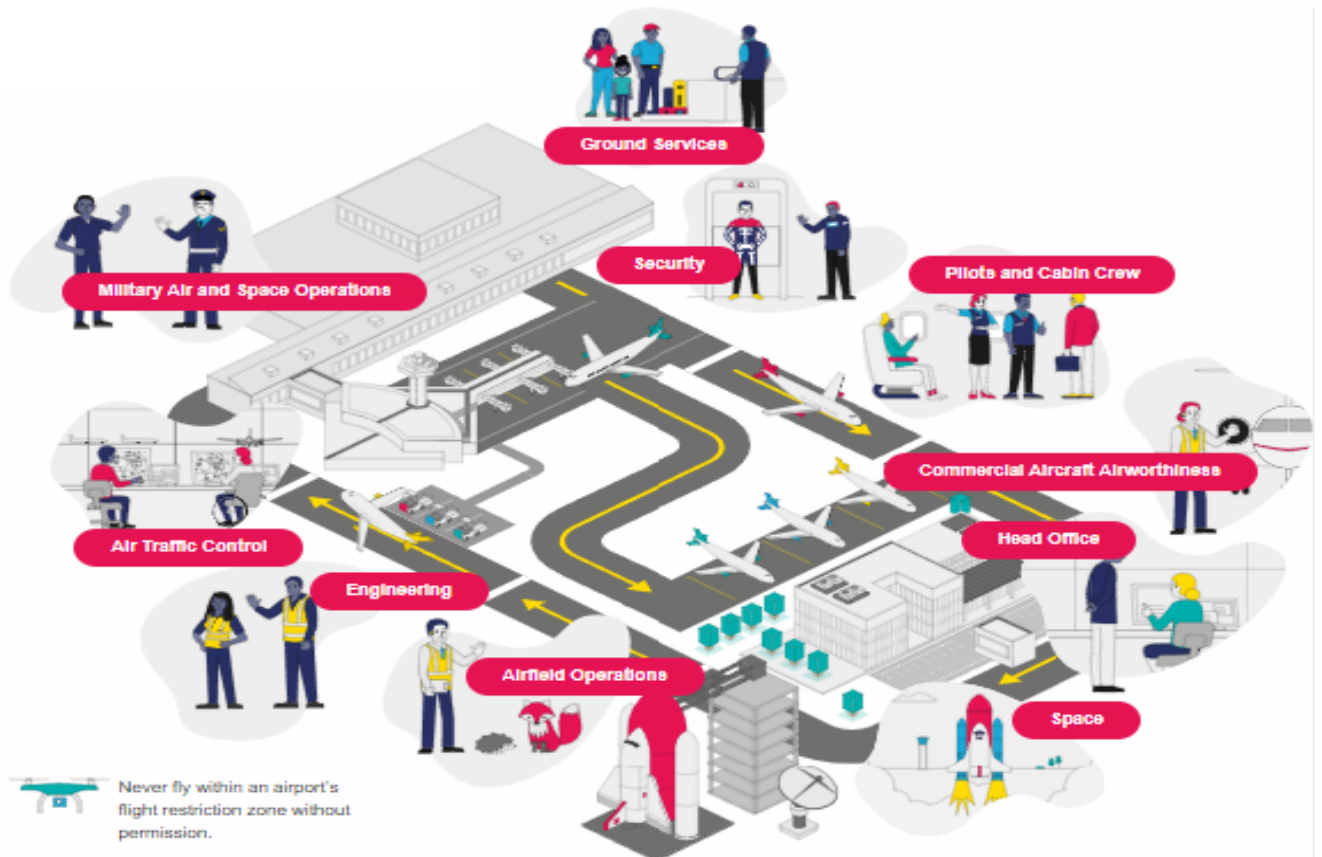
FLIGHT PATH TO SUCCESS

MAGAZINE



YOUR MAGAZINE ABOUT SIXTH FORM
AND
POST 16 EDUCATION

Careers in Aviation and Aerospace

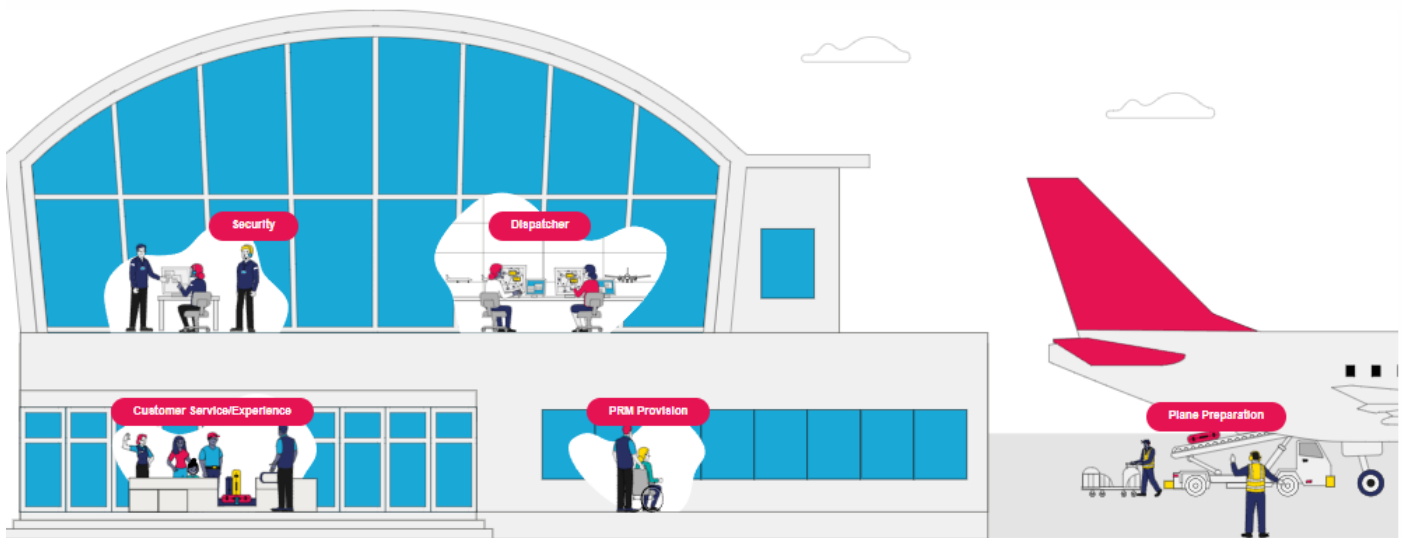


Career Entry Routes

Career entry routes can come through many different pathways, from technical routes studying at University, to Apprenticeships, Graduate programmes even Military routes. By expressing interest in work experience programmes, mentorships, Aviation & Aerospace youth groups such as; Scouts, Cadets and Gliding you gain great insight into the sector. Studying subjects like Science, Technology, Engineering and Maths are a great start to give you options into supporting your future career choices. We hope to see you very soon.

Careers in Aviation and Aerospace

Ground Services



Security

Technical Database Assistant



Technical Database Assistant

Job Title
Technical Database Assistant

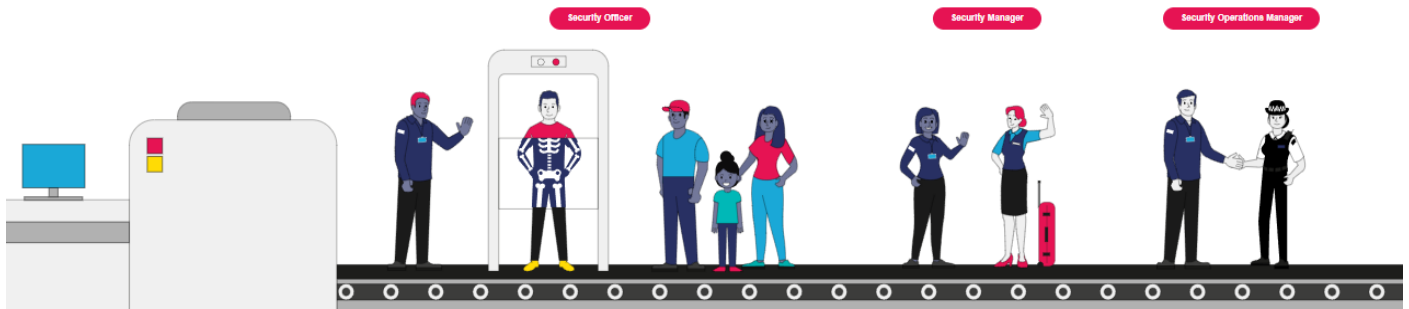
Function
Aviation Security Compliance

Brief Description
Responsible for evaluating, monitoring and interpreting safety occurrence reports

Key Skills
Patience, prioritisation, interpersonal

Entry Routes
University degree

Day in the Life
AVSEC plays a crucial role in keeping aviation safe and secure, helping to develop security policy, monitoring compliance with regulatory requirements and promoting continuous improvement



Security Officer



Security Officer

Job Title

Security Officer

Function

Operations

Brief Description

One of the main customer-facing roles at the airport, Security Officers are part of the team customers rely on to deliver a safe and secure experience in the airport. Security Officers are vigilant and ready to identify potential risks and threats. Security Officers spend time on their feet patrolling the terminal, conducting safety checks on passengers and colleagues, and monitoring access to secure areas.

Key Skills

Teamwork, listening, speaking, staying positive

Entry Routes

Security Officers join from a wide variety of previous roles. Many have experience in frontline customer service roles before Heathrow.

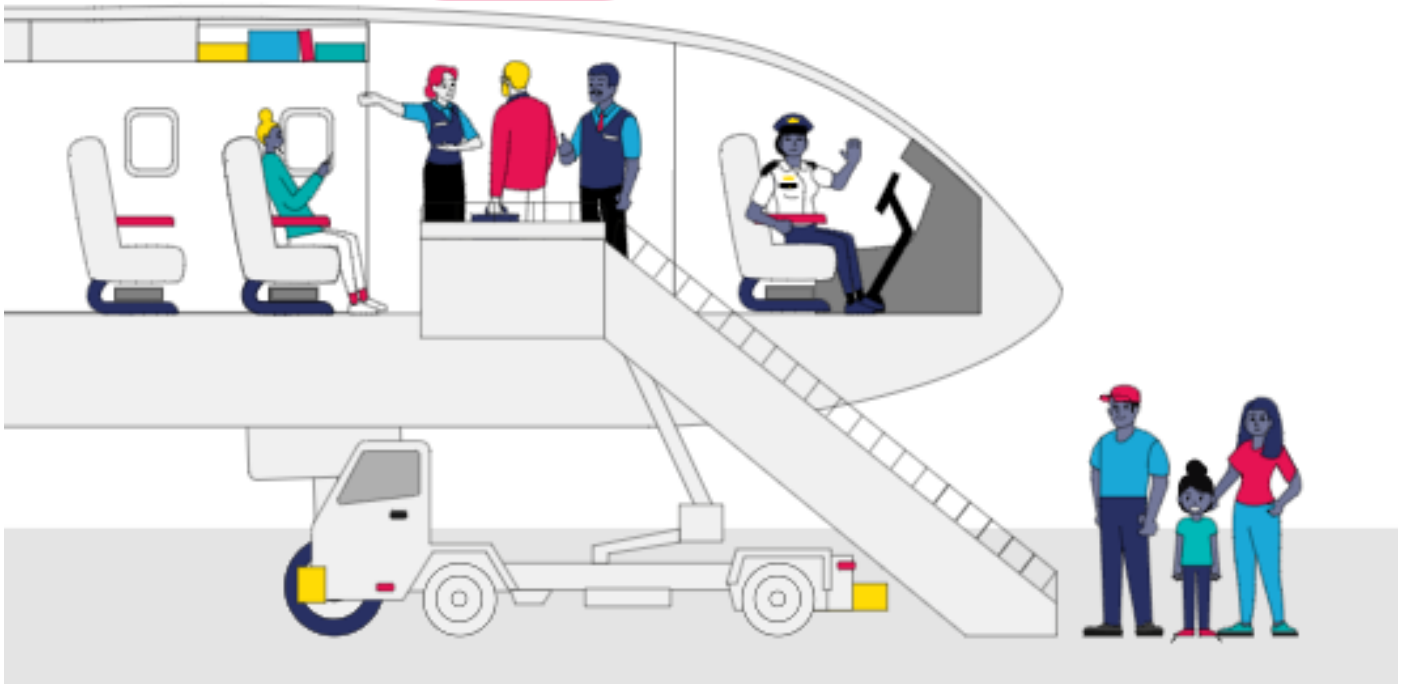
Day in the Life

“Every day is different as a Security Officer, but their main role remains the same, keeping passengers, colleagues and the airport safe.

Security Officers could be on staff posts checking colleagues coming in and out of work, or welcoming passengers through the security checkpoints. This could involve scanning bags and determining if they need to be hand-searched for prohibited items, scanning passengers, directing passengers to the correct areas, or patrolling the airport to make sure everything is safe.

Security officers will regularly attend training to ensure they are up to speed with best practices.”

Air Crew



Air Crew

Cabin Crew



Job Title
Cabin Crew

Function
Inflight Customer Experience

Brief Description
onboard customer service and safety

Key Skills
Customer service, problem solving, safety conscious, communication, team work, leadership

Entry Routes
Entry level Cabin Crew (at Heathrow and London City Airport). We also have International Cabin Crew stationed at specific locations such as India and Hong Kong, to enhance our cultural understanding onboard and deliver a better experience for specific nationality customers

Day in the Life
"Cabin crew check in for their flight, attend a briefing to understand who they are working with that flight and who is onboard (number of children, passengers who need special support etc)
Onboard, they do pre-flight checks and set up the aircraft ready for customers. Welcome customers onboard and get them ready to take off by doing safety checks such as seatbelts. Serve food and drink onboard, duty free, charity donation collection. Land in a new destination and potentially stay over night and have time down route to explore!"

Fun Fact
You need to be a specific height to be cabin crew with us 5'2"-6'1", a good swimmer and no visible tattoos!

Job Title

Pilot



Function

Operations

Brief Description

“Commercial pilots are those who are tasked to fly and navigate commercial aircraft and helicopters. Airline Pilots fly aircraft for airlines – full service, charter and low cost – which transport passengers and cargo on a fixed schedule.

They are responsible for transporting passengers who are either going on holiday or travelling for business, and generally work for commercial airlines. Their primary responsibility is to operate the aircraft, but throughout the day, they can find themselves checking the weather, performing pre-flight inspections. Pilots are also responsible for the safety of all crew and passengers onboard the aircraft.”

Key Skills

Some of the core skills commercial pilots must possess include: strong leadership skills, the ability to remain focused and level-headed under pressure, complex problem solving skills, decisiveness as well as excellent communication skills.

Entry Routes

In order to work as a commercial pilot, you need to first gain an Airline Transport Pilot Licence (ATPL). Training for this can take around two years and can cost as much as £100,000.

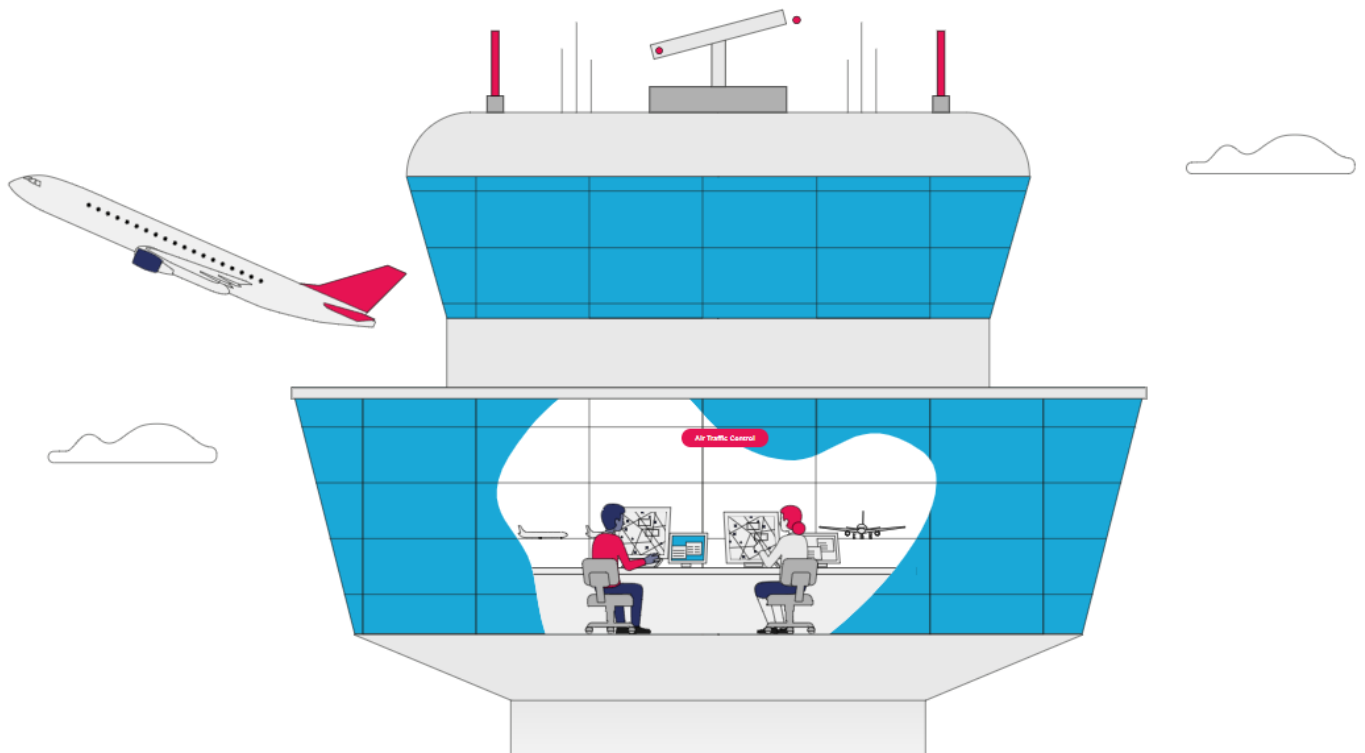
Day in the Life

[Eleanor McBrien MRAeS, Senior First Officer, A320, British Airways – Careers in Aerospace](#)

Fun Fact

Some of the main UK airlines have fully sponsored training programmes, such as British Airways' Future Pilot Programme or the Virgin Atlantic Future Flyers Programme. Places on such schemes are limited and highly contested, but are great opportunities if you manage to secure a spot.





Job Title

Air Traffic Controller

Function

Safe and expeditious flow of air traffic either at an ATC Tower (Aerodrome or Approach control) or at an Area Control Centre (Area Control)

Brief Description

By giving instructions to pilots via radio, controllers help to separate aircraft from each other and help aircraft reach their destinations as quickly and as safely as possible.

Key Skills

Decision making, assimilating information/data, ability to focus/concentrate, team working, ability to follow and apply rules, keeping calm under pressure and good diction in English.

Entry Routes

Selection via ATC employers aptitude testing e.g. via NATS or EuroControl or candidates can self fund courses at an ATC College. Air traffic controller Apprenticeships are now being set up but again may require selection via aptitude testing.

Day in the Life

Most controllers work shift patterns either a morning, afternoon or night shift ranging from 7-9 hours on average for each shift. However, a controller will only usually work up to 2 hours at a time talking to pilots and controlling before there are required to take a break.

Fun Fact

People think ATC is really hard and stressful – but if you have the aptitude and are trained (up to 3 years) then routinely it is not stressful but can be pressured. And – who doesn't want to spend their day telling pilots what to



Job Title

Airfield Operations Officer

Function

Airfield Ops

Brief Description

Safety Audits, standplanning Risk assessment
Bird Hazard Control aerodrome lighting inspections
FOD Inspections and recovery
Control of works, Runway friction testing inspections
Implementing Low Visibility Procedures
Managing and trouble shooting Baggage system



Key Skills

Must Hold Current airside pass
Undergo DFT Criminal Check
1 year experience working airside
Basic Knowledge Airfield Ops
Hold Current Clean driving License

Entry Routes

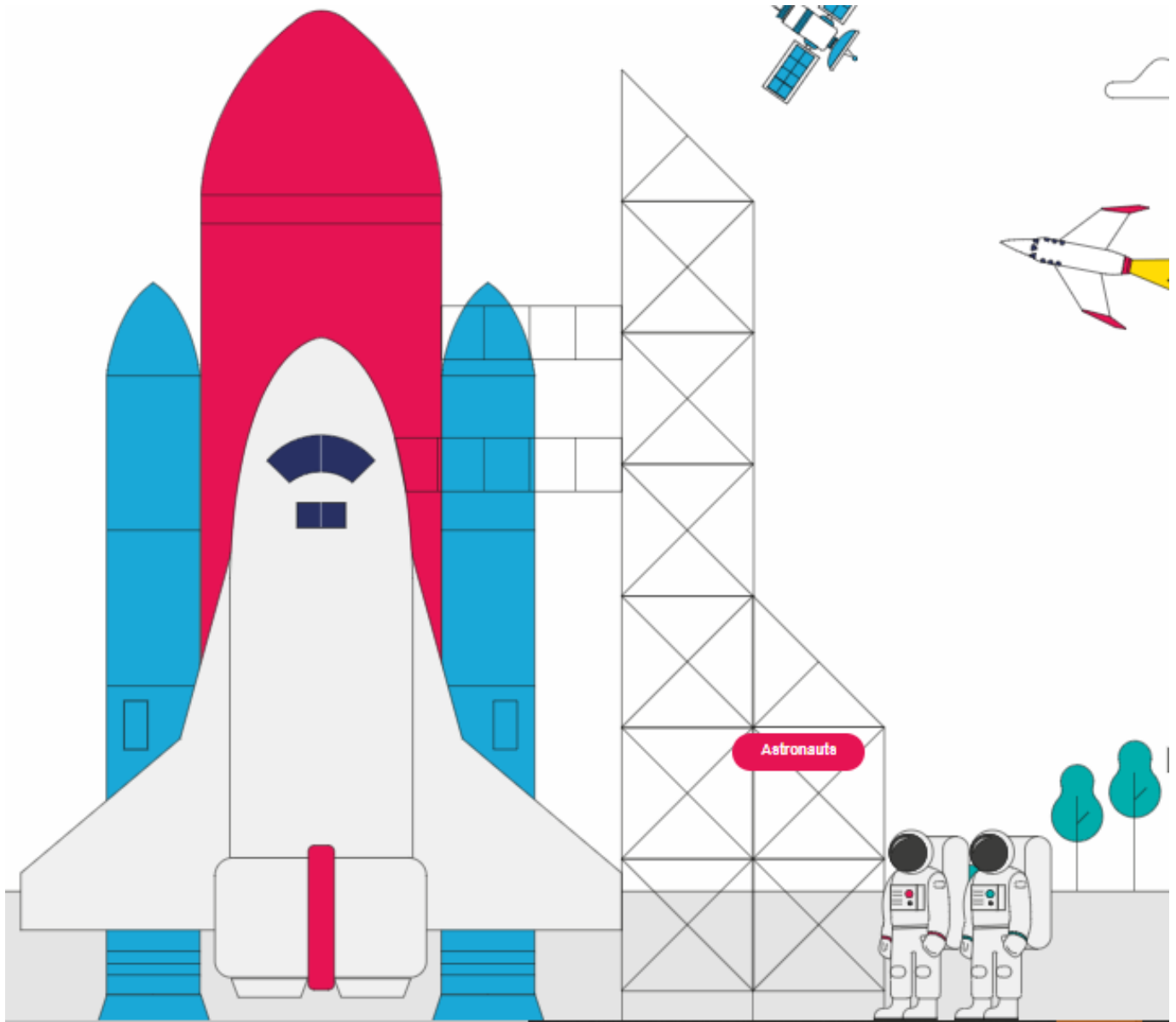
C or above in GCSE Maths / English
IT skills in Word and Excel
Experience in SMS
Experience in H&S

Day in the Life

Capable of using own initiative
Ability to work under pressure
Positive attitude working in a team

Fun Fact

Every day is different



Job Title

Orbital Mission Safety Analyst

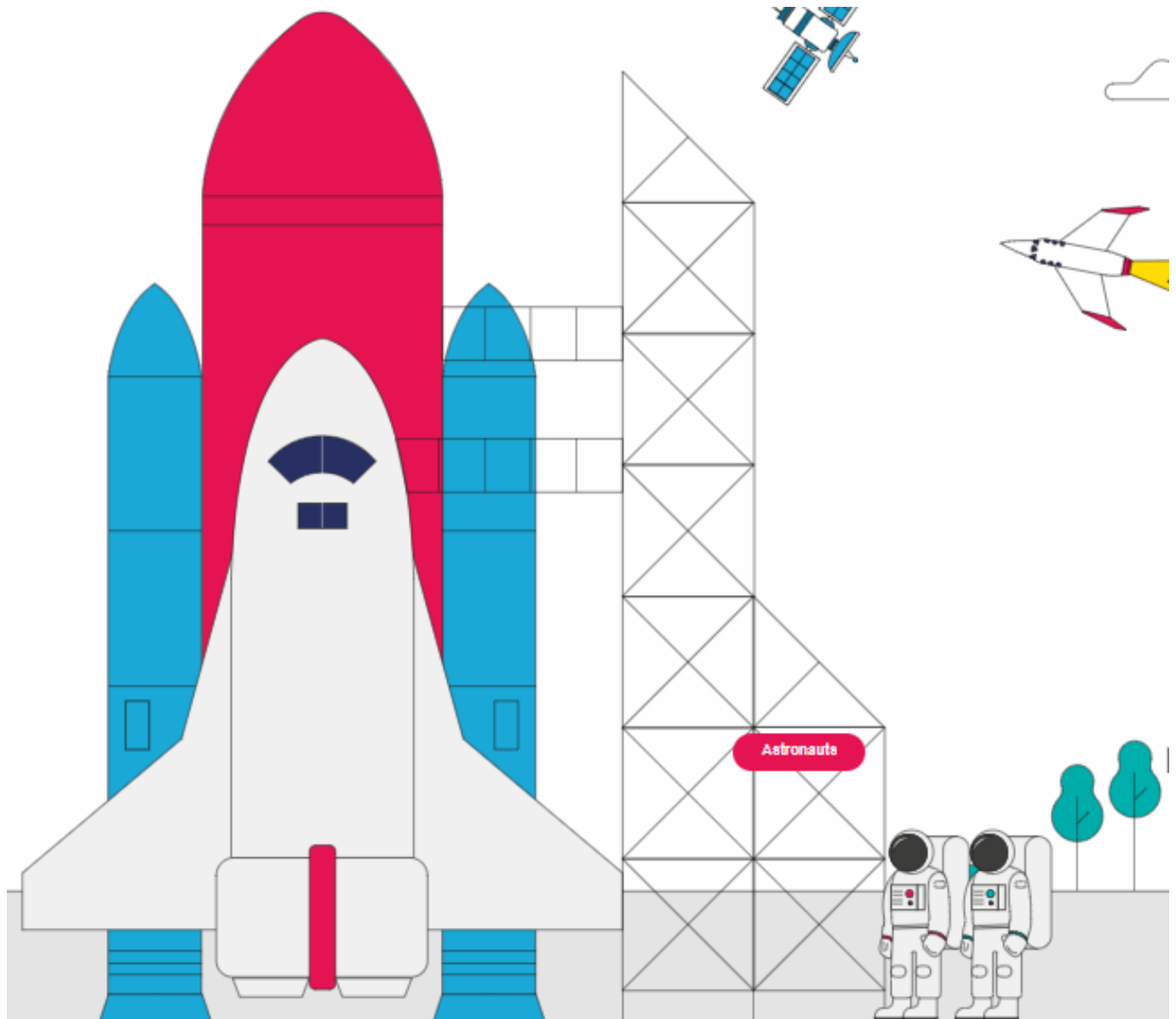
Function

Mission Safety Analyst sits within the CSP – Space regulation under Engineering Division and will contribute experts on technical aspects in the licence process

Brief Description

Assesses the technical evidence provided as part of licensing applications for UK space missions and will provide their expertise mainly on in-orbit analysis of an orbital licence and will perform several analyses considering safety, security and sustainability aspects of the satellite in orbit.

Some of these analyses include – Lifetime estimation in-orbit, performing probability of collision, financial impact of Collision probability, computing critical number of conjunctions, collision avoidance maneuverers etc. Mission analyst is responsible for identifying any critical risks associated to technical aspects of the space mission that would reject issuing a licence under UK regulations and provide recommendations to other personal in different divisions in space regulation department.



Key Skills

Overall good level of knowledge on Space system engineering, good understanding of general astrodynamics principals, Guidance Navigation Control (GNC), space communication, mission operation, ground system etc.

Other technical non and technical skills: Software skills (e.g. Python, C+, MATLAB, Fortran etc.), project management skills, good team skills, good communication skills, have excellent written and verbal communication skills with the ability to present complex technical information in a clear and concise manner to a variety of audiences, possess self-drive to keep moving things forward

Entry Routes

Generally, a degree in a STEM subject. Many employers have graduate trainee programmes to recruit people directly from university and on the job, training is provided. Internships with any space industry while in university. Master thesis conducted on subjected related to space.

Accredited apprenticeship within the space industry.

On top of that Data Analysis, software engineering focused courses, sometimes postgraduate studies/PhD in specific aspects relating to overall space mission analysis is beneficial.

Lift Off – with the Civil Aviation Authority

Aviation & Aerospace Virtual Work Experience



STEM
OPPORTUNITIES IN AVIATION & AEROSPACE



The CAA has Virtual Work Experience Programme in partnership with Springpod

[STEM | Careers in Aviation and Aerospace - STEM \(srgry.uk\)](#)

[STEM | CAA Virtual Work Experience Programme – VWE - STEM \(srgry.uk\)](#)