

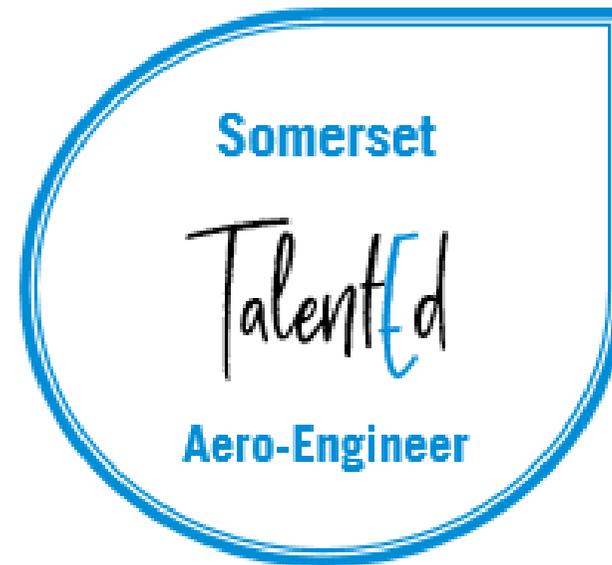
be concerned with improving flight safety, fuel efficiency, speed and weight, reducing system costs, using advanced technologies to meet customer needs or to reduce the environmental impact of air travel.

As part of the of the Academy Programme you will visit local and regional Aero-engineering companies, undertaking hands on activities, talking to current employees and apprentices to gain first-hand knowledge about the many specialisms within this fast-moving sector. Each session will take place in a different company so you get to experience a wide range of opportunities & gain understanding of the industry.

The programme will give you the information and an insight in to how Aero-Engineering Companies work and what an aero-engineer's job is. We can give you help and support to choose an appropriate training path to becoming an Aero-Engineer.

If you are interested in joining this Somerset Talented Academy, please let your tutor know or email Julie Young at: jayoung@somerset.gov.uk

The Somerset Talented Academies are brought to you by:



Have you ever considered working as an Aero-Engineer?

- There are many opportunities for you if you enjoy practical engineering projects, research and design and working with data.
- Jobs are widely available in the UK and abroad, as part of a very advanced aerospace industry, which is at the forefront of technological and scientific development.
- There are many opportunities for career development – you can specialise in certain areas like aerodynamics, propulsion or avionics or work in other areas like commercial sales, training or lecturing. You may have the opportunity to become a Chartered Engineer, which shows that a certain level of experience and knowledge has been reached.

What does working as an Aero-Engineer mean?

Specialist tasks vary according to the role, specialist area and employer but they may include:

- Applying science and technology principles to create aircraft, components and support equipment
- Researching and designing specifications and plans
- Assembling airframes, engine, instruments and other equipment
- Maintaining aircraft
- Measuring and improving the performance of aircraft, components and systems
- Collating information, interpreting data and taking part in projects.

Work is carried out in offices, factories, hangars or aeronautical laboratories.

What qualities and skills do you need to work as an Aero-Engineer?

The following attributes will help you settle into a successful career

in Aerospace Engineering:

- Problem solving and analytical skills
- Ability to work as part of a team
- Communication skills
- Adaptability
- Dedication and Enthusiasm
- Able to work to deadlines and be self-motivated
- Attention to detail and methodical approach to work
- Organisation and time-management skills
- Ability to think creatively and be innovative, Particularly when developing designs
- Language skills.

The Programme

The Aero-Engineering Academy programme will give you lots of information, experience and insight in to the exciting career opportunities within the Aero-Engineering sector. A career in Aerospace engineering will see you working with cutting-edge technology and international companies.

An aerospace or aeronautical engineer researches, designs, develops, maintains and tests the performance of:

Civil and military aircraft
Satellites

Missiles
Space vehicles
Weapons Systems

Work is also carried out on the different components that make up these aircraft and systems. If you worked in this sector you could