

# Engineering the Future of Flight

Designed with industry. Delivered for your future



## Discover a Career that Takes You Further

If you're fascinated by how aircraft are designed, built, operated and maintained – or how the aviation industry is transforming to meet a greener future – this programme is for you.

The **Aviation Generation Engineering Pathway** gives you the skills, knowledge and connections to begin a career in one of the world's most exciting sectors. You'll learn directly from engineers, pilots, and aviation experts, while completing an internationally recognised BTEC Level 3 Extended Diploma in Engineering mapped to real industry engineering standards.

## Why Choose Aviation Generation?

**Experience:** you'll explore real projects from airports, airlines and maintenance companies — gaining hands-on insight into how aircraft are designed, maintained and operated.

**Mentors:** our courses are co-delivered with industry partners, ensuring everything you learn reflects today's aviation technology and tomorrow's opportunities.

**Sustainability:** Aviation is changing fast. You'll study how engineers are making flight cleaner, smarter and more efficient.

**Network:** you'll join a community of students, colleges and employers working together to rebuild the aviation talent pipeline — opening doors wherever your career takes you.

## What You'll Study

**Duration:** Two years full-time, intensive programme

**Educational Award:** BTEC Level 3 Extended Diploma in Aeronautical Engineering

**Industry recognition:** AvGen Industry Certificate

The course includes topics such as:

- Skills and Behaviours
- Principles of flight and propulsion
- Aircraft materials, design and systems
- Electrical and mechanical engineering
- Human factors and safety management
- Digital technologies and sustainability in aviation

## How you'll be taught

You'll be taught by a combination of lecturers and industry experts. using industry materials and practices, work on practical projects, problem-solving challenges and industry-led case studies throughout the course.



## Where It Can Take You

After completing the Pathway, you can progress to:

- Technical roles in engineering, maintenance, design, or manufacturing
- Degree Apprenticeships with airlines or engineering companies
- University study in Aeronautical, Mechanical or Electrical Engineering

You'll graduate with a Level 3 qualification equivalent to three A Levels and a unique AvGen Industry Certificate recognised by employers across the UK.

## Be Part of the Next Generation

The first national AvGen Engineering Pathway launches in September 2026, delivered by selected UK colleges.

For more information or to register your interest:

 [enquiries@aviationgeneration.org](mailto:enquiries@aviationgeneration.org) |  [aviationgeneration.org](https://aviationgeneration.org)



*Aviation Generation is a not-for-profit collaboration between colleges, employers and aviation professionals — ensuring every learner gains skills that count and careers that take flight.*