



# Aircraft Engineering

Prospectus | Career Guide



**We're here to help you  
get to where you want to be.  
We'll inspire you, increase your  
opportunities and raise  
your ambitions so you're ready  
to take the next step.  
Start here, go anywhere**

**together**

**we are Ayrshire College**



# Accessibility

Ayrshire College is fully committed to challenging discrimination, advancing equality of opportunity, promoting inclusion and celebrating the diversity of all of its students, staff, visitors and partners.

To request a copy of this information in another format please contact us:

Tel. 0300 303 0303

Email. [marketing@ayrshire.ac.uk](mailto:marketing@ayrshire.ac.uk)



[www.ayrshire.ac.uk](http://www.ayrshire.ac.uk)

Ayrshire College is a registered Scottish charity. Reg No SC021177

## #weareAyrshireCollege



# Why choose College?

Help with first steps towards your career

Change your career

Access further study at University

Start an apprenticeship

Help to start your own business

Study locally

Excellent facilities

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“ Sometimes the smallest step in the right direction ends up being the biggest step of your life. ”

# Build your future at Ayrshire College.

Our campuses offer modern facilities with exciting learning spaces, to help you learn in a way that suits you. There are social spaces on each campus, including refectories and coffee shops, where you can relax and catch up with friends.



**Modern Learning  
Resource Centres**

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**Coffee Shops  
and Refectories**

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**Training  
Restaurants**

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**Training Hair and  
Beauty Salons**

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**Motor Vehicle  
Garage**

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**Gym and  
Multi-Sport Pitches**

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**Horticulture  
Centre**

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**Aeronautical and  
Engineering Centre**

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**Science Labs**

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**Construction and  
Trades Centre**

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**Training Hospital  
Ward**

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**Training Nursery**

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**Recording  
Studio**

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**Photography and  
Broadcasting Studio**

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**Get your aircraft engineering dreams off the ground!**

Ayrshire is synonymous with being a hub for aerospace activity, giving rise to numerous employment opportunities for aspiring engineers.

Excited? Be a part of it. Start here.

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**We have a state-of-the art Aeronautical Engineering Training Centre positioned at our Ayr Campus to meet the current and future skills needs of the aerospace industry based at Prestwick.**

Over 100 aerospace modern apprentices study at the centre, where you will find a Bulldog light aircraft and a fixed base Boeing 737 cockpit simulator. We have a composite materials laboratory, hand skills workshops, and a CATIA computer aided design IT suite, where students can work on aircraft repair and maintenance, engine systems and sheet metal work.

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# Why choose Aircraft Engineering?

Aircraft Engineering is cutting edge: you're ensuring an aircraft is fit to fly, and you're encouraged to develop new ideas that will improve efficiency.

You'll have the opportunity to work on a range of aircraft, from commercial airliners to military jets.

Career progression opportunities are wide-ranging; you could be signing off aircraft for flight within a few years.

**“ I was always interested in learning about the way things work and why things are designed the way they are.”**





# Careers

- Trainee Mechanic
- Sheet Metal Worker
- Composites Engineer
- Design Engineer
- Aerodynamicist
- B1/B2 Licenced Engineer
- Mechanical Engineer
- Avionics Engineer
- Flight Test Engineer
- Weights Engineer
- CAD Technician
- Maintenance Engineer
- Aircraft Engine Technician
- Aircraft Engine Mechanic
- Airworthiness Engineer



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From 'hands-on the aircraft' roles, to jobs in the intricate field of aircraft design, the sky's the limit if you're dedicated and willing to work hard.



“ I want to get into engineering first, to totally understand how the plane works and then think about becoming a pilot. ”

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# What are employers looking for?

**Aircraft Engineering is an exhilarating profession that offers many opportunities. Ayrshire College has close partnerships with the aerospace industry and often helps employers recruit from our student intake, so we have a good idea of what skills they are looking for.**

## **Problem solving**

An aerospace engineer is required to identify problems with aircraft and provide effective and safe solutions.

## **Attention to detail**

Some problems can be more complex than others. There are many intricate parts that make up an aircraft, so being able to take note of the most minute details can be very helpful.

## **Communication skills**

This soft skill is important in many industries, and aerospace is no exception. You'll be working as part of a team so being able to communicate effectively will simplify everyone's job.

## **Computer literate**

Digital literacy is an important skill to have. The modern-day engineer needs to be competent with computers, with CATIA becoming a popular tool in the aerospace industry.

## **Creativity**

Creativity can often be an overlooked skill in aerospace, but in such a competitive industry being creative is the key to keeping ahead of the competition.

## **Safety conscious**

You'll be working with heavy objects and loud noises on a regular basis. The reason you see aeronautical engineers wearing ear protection and high vis clothing is because safety is of paramount importance.

## **Language skills**

Being proficient in another language would be a real bonus heading into a truly global industry.

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Coming to Ayrshire College **can change your life.**  
Don't just take our word for it, click on the links below  
to watch our student vlogs ...



join us on social: [f](#) [t](#) [i](#) [v](#) [l](#) [y](#) [b](#)



Enterprising  
Students

# Could you be one of our **Enterprising Students?**



The Ayrshire College Foundation provides funding of grants up to £5,000 for students of Ayrshire College who are interested in developing ideas to start up their own business.

To help us inspire more students to be enterprising, we are working in partnership with Bridge 2 Business to support idea development.

You could join the many students we have supported so far, including former engineering student Greig Allan.

Visit our [Entrepreneurs Blog](#) to learn more.

[Click here  
to visit our  
blog](#)



**“ The knowledge and skills I’m learning on my engineering course help me understand how things work and how to solve problems. This will help me in the manufacturing side of our business. ”**

Former engineering student, Greig Allan

# Start here...

We're the only college in Scotland to offer an NC level course in Aeronautical Engineering. You'll benefit from learning in our purpose-built state-of-the-art Aeronautical Engineering Training Centre and being taught by aviation industry experts.

We'll consider your qualifications and life experience to place you on a course that's right for you.



“Ayrshire College has been a very welcoming environment to study, with excellent staff, and my experience at the college has been nothing short of incredible.”

## Courses available in:

- SVQ Level 2 Performing Engineering Operations (PEO) – Aeronautical
- NC Aeronautical Engineering
- HNC/HND Aircraft Engineering

Click here  
to see all  
courses



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# Go anywhere...

Our HND Aircraft Engineering students may be eligible to go into year 3 of the Aircraft Engineering Masters degree programme at the University of the West of Scotland. Others have obtained year 1 entry at the University of Glasgow.

Alternatively, you can pursue apprenticeships.

We have excellent relationships with every major aerospace employer in Ayrshire, with the likes of GE Caledonian, Spirit AeroSystems, Chevron, BAE Systems, Ryanair and Collins Aerospace recruiting our students.

Please check with each university for their articulation requirements prior to your UCAS application. Entry is subject to availability of places and meeting entry requirements, other options may also be available.

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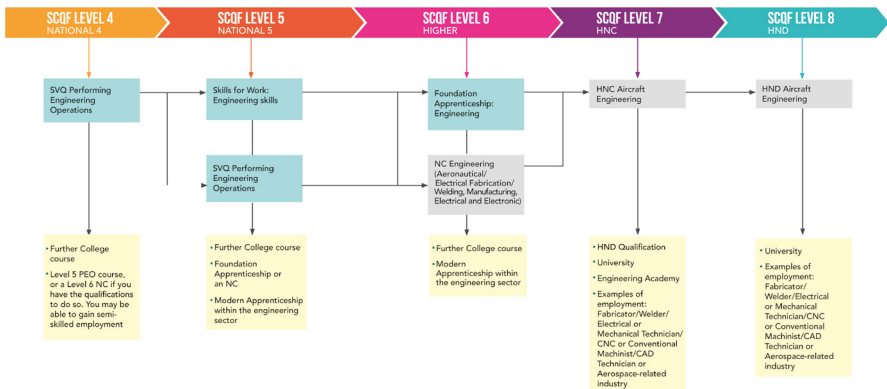


# What path will you take?

Our course pathway maps will help you understand the various routes you can take to help you achieve the qualifications you need.

## Course pathway map for Aircraft Engineering

Zoom in to view



## Still unsure?

Contact our Student Services team and speak to one of our advisors who will be happy to help you.

You can book an appointment to see the Advisor for your curriculum area either in person, over the phone or by email:

[studentservices@ayrshire.ac.uk](mailto:studentservices@ayrshire.ac.uk)

Tel no. 01294 555 333



# Go for it!

You're just two steps away from starting your career in Aircraft Engineering...

## Step 1...

**Click here** to see our full list of courses at [www.ayrshire.ac.uk](http://www.ayrshire.ac.uk)

## Step 2...

**Apply online now** or download our Application Guide **here**

Full-time courses start in January and August. Apply as soon as you can because our courses fill up quickly!



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