



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



www.ayrshire.ac.uk

Ayrshire College is a registered Scottish charity. Reg No SC021177

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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**



**Coffee Shops
and Refectories**



**Training
Restaurants**



**Training Hair and
Beauty Salons**



**Motor Vehicle
Garage**



**Gym and
Multi-Sport Pitches**



**Horticulture
Centre**



**Aeronautical and
Engineering Centre**



Science Labs



**Construction and
Trades Centre**



**Training Hospital
Ward**



Training Nursery



**Recording
Studio**



**Photography and
Broadcasting Studio**

An exciting career awaits you In Engineering!

Engineering is a fast-moving industry at the cutting edge of technology.

Every day is different as you look to solve problems that will shape our future.

Excited? Be a part of it. Start here.

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We have state-of-the-art engineering facilities across all campuses. A Renewable & Energy Efficiency Training Centre was created at Ayrshire College in 2021 and a new Future Skills Hub is coming to Kilwinning in 2022 that will provide first-class training for people in Ayrshire for generations to come.

We ensure our engineering students are always learning using the latest industry standard technology, by investing in equipment like our three CNC Mazak and Doosan machines and Allen Bradley, Mitsubishi, Siemens and SMC training rigs. This has all resulted in us being recognised for the quality of our Engineering courses by receiving STEM Assured status.

We have excellent relationships with major engineering employers in Ayrshire, with the likes of Scottish Power, EGGER, Emergency One, and J & D Pierce recruiting our students.

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Why choose Engineering?

Gain transferrable skills. Many companies inside and outside of the traditional engineering spectrum are keen to recruit people with the problem-solving skills engineers possess.

Work anywhere in the world. Those transferrable skills you learn allow you to work internationally. Even if you join a local company, they tend to work with other companies across the globe, providing you with exciting opportunities.

Create the future. As an engineer, you'll spend your time working with others to solve problems and overcome difficulties. Will you have a hand in the next ground-breaking innovation?

“Engineering will provide you with an illustrious career and an experience that will last you a lifetime.”

Steven McNab,
Apprentice Leader, GE Aviation



Careers

- Mechanical Engineer
- Manufacturing Engineer
- Electrical Engineer
- Fabricator/Welder
- Machinist
- CNC Operator
- CAD Designer
- Engineering Manager
- Architectural Engineer
- Civil Engineer
- Design Engineer
- Electronic Engineer
- Process Engineer
- Toolmaker



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Engineering is a broad area of study that leads to careers in a wide variety of roles and locations. Engineers design, create, test and improve all sorts of products and processes. Qualified engineers are in extremely high demand!



“ I feel an enormous sense of achievement when I stand back and look back at what I have just made.”

Emily Wason,
NC Mechanical Engineering

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What are employers looking for?

There are plenty of opportunities out there for engineers, and the Ayrshire Growth Deal is set to bring even more jobs to an already in-demand industry in Ayrshire. However, engineering skills are highly sought-after anywhere in the world, so take note of these bullet points and you could find yourself wherever you want to be!

Innovation

Of course, as an engineer, you'll be making things. Someone who is able to look outside the box and think of a better solution (that could save a business plenty of money) is a very valuable asset to have...

Problem solving

...especially when you inevitably run into a problem. Engineers are constantly having to figure out how things work – and why sometimes they just don't.

Hand skills

It's all well and good being able to talk through a solution, but you'll also need to be able to demonstrate it. The advantage of coming to college is the sheer amount of practical work you'll carry out during your time with us as we prepare you for the world of work.

Communication

Engineers often work in teams so being able to express yourself, get on well with others and work well together will make life easier for everyone in engineering.

Safety conscious

You'll be working with heavy machinery and tools that could cause some real damage in the wrong hands. Don't get careless – you'll need to be able to keep yourself and others safe in the workplace.

Digital skills

Computers are used in many areas of engineering nowadays so being switched on to technology is a useful skill to have.

Potential

Many organisations are looking to invest long-term in their engineers. It's not unheard of for engineers to have decades of service to one company.

Be inspired...

Find out more about our courses from the people who teach them.
Click on their faces to watch...



Fabrication and Welding:
Michael Wood
[Click here to watch Michael's video](#)



Performing Engineering Operations:
Ryan Knox
[Click here to watch Ryan's video](#)



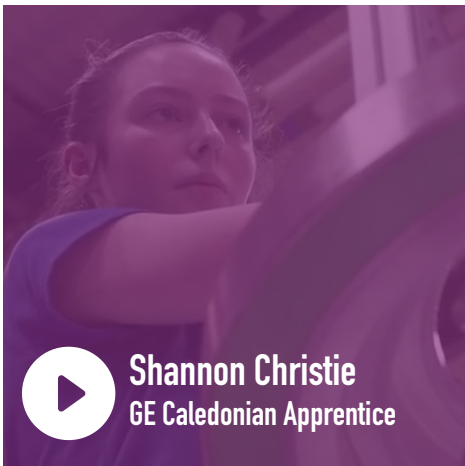
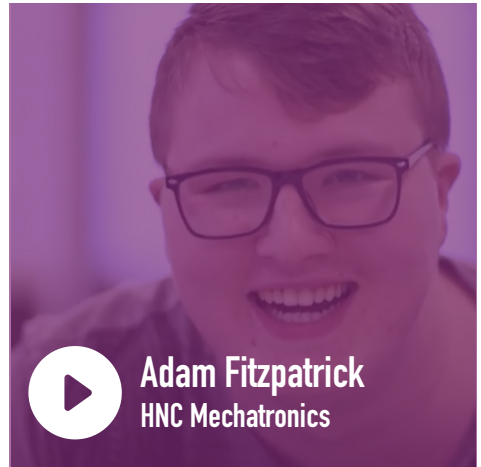
Computer Aided Design (CAD):
Alistair Love
[Click here to watch Alistair's video](#)



Performing Engineering Operations:
Marius Prinsloo
[Click here to watch Marius's video](#)

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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:       



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. ”

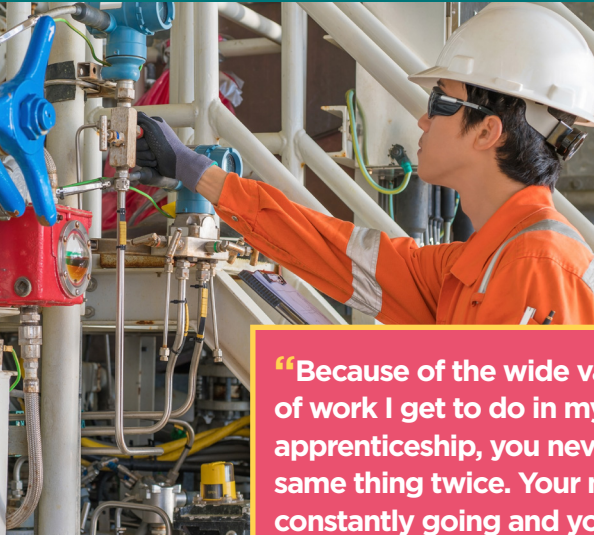
Former engineering student, Greig Allan

Start here...

Start with a general course covering all subjects or if you have the right entry qualifications, you can specialise from the start.

Study for your Modern Apprenticeship preparing you for work or, if you already work, study with us on a day release basis and earn while you learn!

What are you waiting for? Get in touch today if your dream is to work in the Engineering Industry.



“Because of the wide variety of work I get to do in my apprenticeship, you never see the same thing twice. Your mind is constantly going and you’re learning something new every day.”

Megan Forrest,
Modern Apprentice

Courses available in:

- Electrical Engineering
- Engineering Manufacture
- Fabrication
- Mechanical Engineering
- Mechatronics
- Performing Engineering Operations (PEO)

Click here
to see all
courses



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Go anywhere...

Ayrshire College has an articulation agreement with Glasgow Caledonian University and if you have successfully achieved HNC/HND Electrical Engineering you can move into year 2 (with HNC) or year 3 with (HND) in the following courses:

MEng/BEng (Hons) Electrical Power Engineering
MEng Electrical, Electronic and Energy Engineering
MEng/BEng (Hons) Electrical and Electronic Engineering
You need a B in Graded Units

We have designed an HNC Mechanical Engineering course in partnership with the University of Glasgow to allow successful students to progress on to Year 2 of selected degree programmes within the University's School of Engineering:

Aeronautical Engineering,
Aerospace Systems, Biomedical Engineering, Civil Engineering,

Electronics and Electrical Engineering, Mechanical Engineering, Mechanical Design Engineering, Mechanical Engineering with Aeronautics, and Mechatronics.

If you're part of the Engineering Academy you'll be studying HNC Mechanical Engineering and will be able to progress into year 2 at the University of Strathclyde, and choose from a range of degree courses.

If further studies are not for you, speak to the employers that regularly visit and recruit from our courses. Gain employment with a Modern Apprenticeship and study at the College part-time to gain your qualifications.

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.

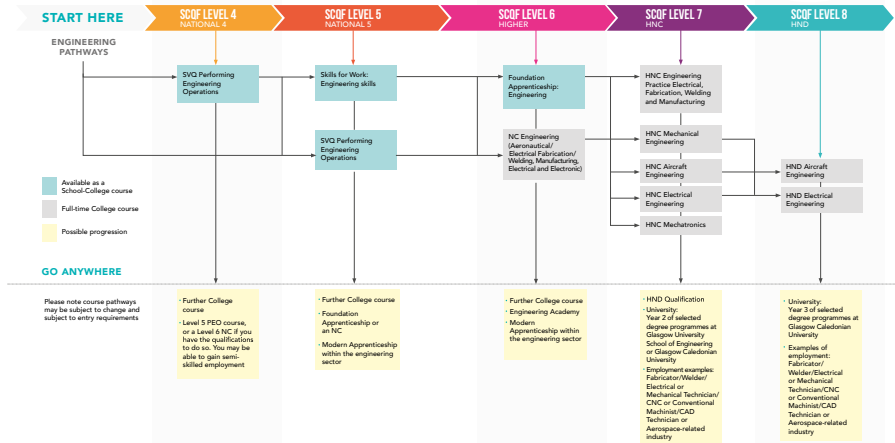
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What path will you take?

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 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

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

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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