



**START  
HERE**  
GO ANYWHERE



**Building Services  
and Renewables**



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# Building Services and Renewables

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**Building Services is an umbrella term that covers careers in heating, ventilation, air conditioning, refrigeration, plumbing and electrical.**

Building services engineers are responsible for designing, installing and maintaining the services inside a building that are needed to allow it to function efficiently.

Scotland has a great reputation worldwide for engineering, and is especially at the cutting-edge of developments within the Renewables sector.

The Scottish government is committed to growing this industry and the sector is short of trained, competent individuals to keep wind turbines operational.

Wind Turbine Service Technicians inspect, diagnose, adjust or repair wind turbines. Opportunities exist throughout Scotland and further afield. We have ex-students working in Ireland, Sweden and Norway, with some of them progressing into commissioning engineer roles.

## Possible Careers

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**Air Conditioning Engineer**

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**Installation Electrician**

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**Facilities Manager**

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**Refrigeration Engineer**

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**Domestic Heating Engineer**

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**Domestic Plumber**

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**Industrial and Commercial Plumber**

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**Service and Maintenance Engineer**

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**Heating and Ventilating Engineer**

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**Turbine Technician**

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**Telecoms Engineer**

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**Power Engineer**

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**Electrical Designer**

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**Commissioning Engineer**

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**Wind Farm Control Room Operator**

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# Douglas Lindsay

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NC Plumbing

**Go anywhere**  
Apprentice Plumber

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“The best thing about being a plumber is the job satisfaction. A lot of the time you’re helping out people who have problems in their homes, like for example they’ve not had heating for a few days. You can’t beat the satisfaction you get from being able to fix something like that for someone.

I didn’t really know what I wanted to do but I’ve got mates who are tradespeople and none of them are plumbers, so I thought I’d give it a go and see what it’s like. In the first year of my apprenticeship, it was all about getting some practical experience and learning how to use the basic tools, and how to bend pipes. Then it progressed into things like learning how heating systems work.

I love it. Once you’ve got a trade, you’ve got it for life. There’s the potential to make great money as a plumber, and there are many routes you can go down.”

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## David Miller

**Start here**  
Wind Turbine Technician course

**Go anywhere**  
Wind Turbine Technician at  
B9 Energy

**“The knowledge and learning experience I gained from the course was invaluable. It allowed me to understand the different systems used and improve my technical ability to a level where I could begin a career in renewable energy.**

I started as a trainee with B9 Energy. When I became fully qualified, I started mentoring trainee technicians from the wind turbine course at

the College - which has been really fulfilling.

Ayrshire College has lecturing staff with direct experience on wind turbines and their industry knowledge was a massive help to me. If it was not for Ayrshire College I would never have had this opportunity, and I can't thank them enough for the chance I was given. I would definitely recommend the course to anyone with an interest in the industry because the level of learning is tremendous.”

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# Allan Houston

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**Start here**

**SVQ Level 3 Electrical Installation**

**Go anywhere**

**Multi-skilled Engineer at  
Nestlé UK Ltd**

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**“I’m a mechanical fitter to trade but to progress at my work you’ve got to be trained in electricals. So I volunteered to come to Ayrshire College for further training and my work were happy to send me.**

I left school over 20 years ago so coming back to studying was a challenge, but a good challenge. I wasn’t afraid to open the books at night and really knuckle down. I was hungry for knowledge and I put that down to having a real interest in what I was doing.

Not a lot of people know much about electrics, so it’s a cracking trade to have as you’ll always be needed. I was actually named Apprentice of the Year at various competitions, including being named the Ayr Guildry Apprentice of the Year for 2018. I worked hard and it’s paid off.”



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# Wind-Power your career to the top!

You'll be learning using the latest industry standard equipment and technology. We have STEM Assured Status which means we've been recognised for the quality of our delivery in these courses.

Courses available in:

Building Services

Electrical Engineering

Plumbing

Wind Turbine Technician

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## Why choose Building Services and Renewables?

- The industry is very strong right now and there are many diverse employment opportunities available.
- You'll gain invaluable hands-on experience with cutting edge equipment used within the industry.
- There can be fantastic career progression in this area for those with the right attitude and skills.



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## Are you right for the job?

Can you deal with responsibility?  
Able to use your initiative? Are you a confident self-starter who has the ability to rise to a challenge and overcome that challenge?

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## What are employers looking for?

- The sector needs skilled people with a can do attitude. People who are curious about HOW things work.
- People who embrace technology, enjoy maths and science, and like nothing better than solving problems and discovering the latest technologies.
- The ability to work on your own initiative as well as contribute effectively to team activities.

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# Start Here

Ayrshire College, supported by the Energy Skills Partnership, is in the ideal position to offer you practical training on state-of-the-art equipment used within the industry.

This gives successful candidates a great advantage when seeking employment within the renewables industry.

You'll be placed onto the most appropriate course depending on your experience, interests and qualifications.



“The renewables industry offers great opportunities for enthusiastic, keen engineers to work on utility scale energy projects. Onshore wind projects involve a wide variety of work, providing support for the entire life-cycle of projects including scoping, planning, financing, construction, operation, right through to decommissioning. Due to the expansion of clean energy requirements globally, I believe that the renewables industry will provide job security for the current generation of students and I would definitely recommend this industry to the students at Ayrshire College.”

Alan Duckworth  
Senior Technical Manager  
Community Windpower Limited

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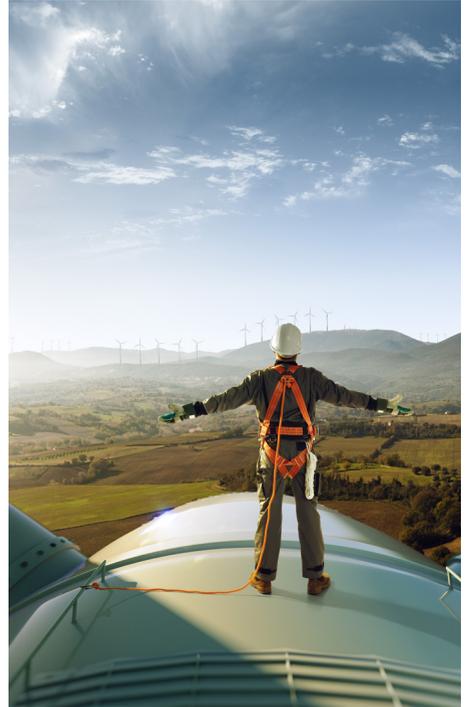
# Go Anywhere

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Successful completion of Building Services courses will give you multiple opportunities for progression within the plumbing, electrical and construction sectors. Some of our students choose to go down the apprenticeship route.

There are also progression routes into employment in specialist areas of building services such as refrigeration, fire risk engineering, heating and ventilation or as a services surveyor or designer. You could also progress into project management. Our Wind Turbine Technician course is primarily aimed at getting successful candidates into employment within the renewables sector, however many students have gone on to study HNC Electrical Engineering here at Ayrshire College. We have links with Glasgow Caledonian University that allow successful candidates to progress to degree level.

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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