

Building Energy Management Systems (BEMS)

BEMS Controls Engineer Level 4 Apprenticeship

Learn to understand, control and optimise the energy usage in industrial, commercial and public buildings.

What are Building Energy Management Systems (BEMS)?

BEMS are automated control systems that are implemented in buildings to monitor and control building services, such as the heating, ventilation and air conditioning (HVAC). By controlling building services, BEMS enable energy efficient control of the internal environment whilst ensuring optimum comfort conditions are maintained. 'Smart Buildings' are created when BEMS connect and integrate building services (e.g. HVAC) to other building services (e.g. lighting).

What is the apprenticeship?

This apprenticeship is a unique opportunity for you to join SSE Energy Solutions' Smart Buildings' team. As a BEMS apprentice, you will cover the functions of building services, field devices (e.g. sensors) and different types of controls. You will gain experience in creating wiring schedules for a range of panel manufacturers. You'll learn to design and write software that connects building services to work together to optimise occupant comfort conditions whilst reducing energy consumption. By creating graphics, you'll enable building users to interact with the control systems via an interface. With support from qualified engineers, you'll complete control panel drawings before learning to install and commission such equipment. At customer sites, you will assist engineers with the servicing and maintenance of existing BEMS installations. Once trained, you'll carry out on site activities on BEMS equipment including fault finding, electrical testing and inspections. You will produce site survey reports along with recommendations for enhancing energy performance.

Training and Development

During the 36 month-long programme, you will receive comprehensive training which will enable you to develop personally and professionally. You will work alongside our engineering team and will receive mentored support. Our partner, Group Horizon, will deliver the Building Controls Industry Association (BCIA) technical course modules BCM00 – BCM15. Following safe working practises, you'll apply your technical knowledge on site, allowing you to improve your skills and behaviours and as a result achieve industry accredited qualifications:

- BCIA Technical Certificate
- BCIA Advanced Technical Certificate
- Eligibility to apply for Electrotechnical Certification Scheme (ECS) Building Controls card
- Level 4 Building Energy Management Systems (BEMS) Controls Engineer Apprenticeship.
- Level 2 Functional Skills, Maths & English (if required)
- Manufacturer Specific Qualifications (Trend, Siemens, Tridium).



Who are we looking for?

We are looking for the right candidates to help our team build a more sustainable and inclusive future. It would be great if you have an interest in technology and/or electrical engineering. To be accepted for this role you must have a positive can-do attitude with a desire to learn and develop new skills, and the ability to work well as part of a team and/or independently. We look for excellent communication skills as you will be interacting with different team members and customers.

What's in it for you?

- Earn while you learn
- Opportunity to build a rewarding career with an industry leader whilst contributing to the delivery of net zero
- 34 days annual leave with the option to buy up to 10 additional days
- SSE Advantage where you can save on online and in-store shopping
- 24/7 free and confidential employee counselling service

Explore our **full list of benefits** at:

careers.sse.com/employee-benefits

Career progression

On successful completion, you could find yourself securing a role within our Projects or Support team... the choice will be yours.

Interested? We have **nationwide vacancies** for **September 2023**. Find out more and apply online now at:

[careers.sse.com/
apprenticeships-and-trainees](https://careers.sse.com/apprenticeships-and-trainees)

Who are we?

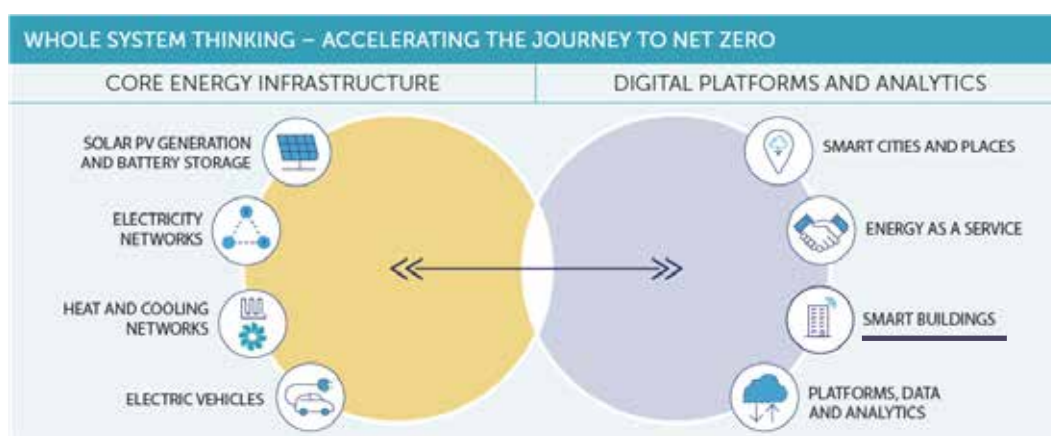
SSE Energy Solutions - Smart Buildings



We're one of the largest BEMS companies in the UK, specialising in decarbonising buildings through smart technology.

Where do we sit in SSE?

SSE is a leading generator of renewable electricity and one of the largest electricity network companies in the UK. At Smart Buildings, we are a part of SSE's Distributed Energy division and our role is to develop energy solutions for smart buildings, campuses and cities. As a collaborative division, we share a 'Whole System' approach accelerating our customers' journeys to net zero as we invest in, build and connect localised flexible infrastructure.



What do we do at Smart Buildings?

Here at Smart Buildings, we design, install, monitor and optimise building control systems within:

- Iconic buildings
- Large complex estates (e.g. university campuses)
- Critical environments (e.g. hospitals).

We reduce the energy consumption and costs within customer buildings, whilst optimising the comfort conditions of the internal environment. By doing this, we help customers decarbonise their buildings and reach sustainability targets. We achieve this through the installation and maintenance of building control technologies, including BEMS, and the application of data analytics to provide building performance insights. Find out more about us at:

www.sseenergysolutions.co.uk/distributed-energy-infrastructure/our-solutions/smart-buildings

Our Partners

We are a top 3 Honeywell Trend Technology Partner.



We are the first Siemens Master Partner in the UK.



Iconic Buildings

Some of the most iconic buildings we make come alive:

- St Thomas' Hospital, London
- Ministry of Defence HQ, London
- Edinburgh Castle, Edinburgh
- Science & Industry Museum, Manchester
- Mercedes AMG HPP, Northamptonshire
- Diamond Light Source, Oxfordshire
- Newcastle University, Newcastle-Upon-Tyne.

