Smith Consult

building services engineering

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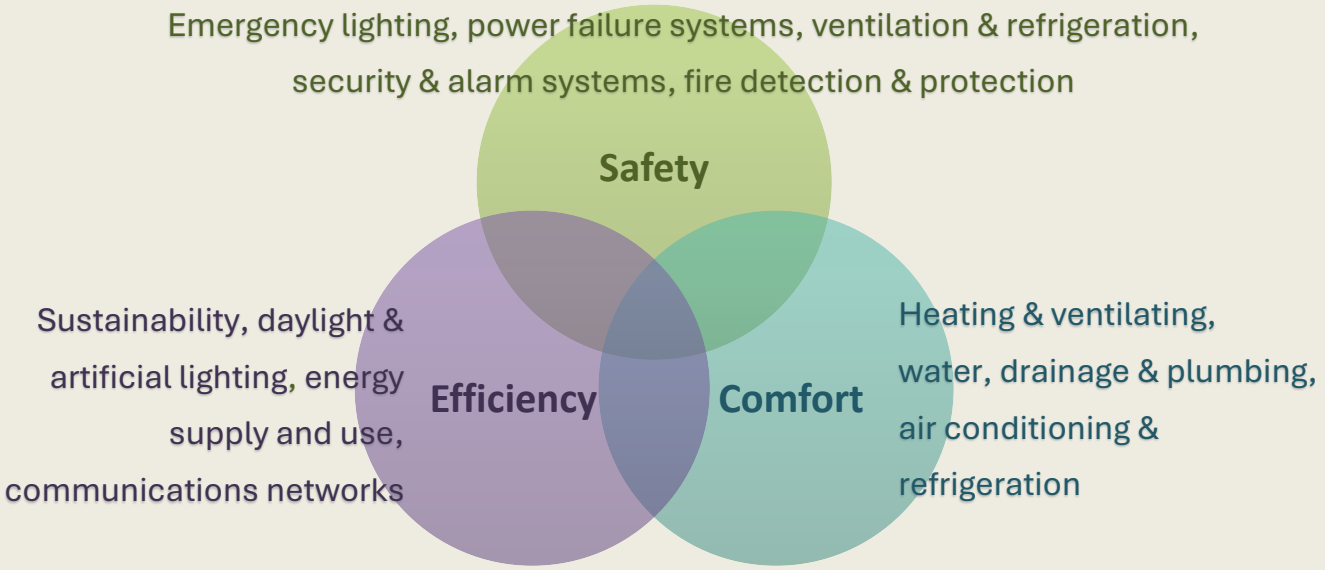
Building Services Engineering

An Introduction

WHAT IS BUILDING SERVICES ENGINEERING?

Buildings must meet the needs of the people who use them by providing a safe and healthy environment in which to live and work. Building Services Engineers are the brains behind the scenes, bringing buildings to life using scientific principles to design services such as:



BUILDING SERVICES ENGINEERS – WHAT IS THE WORK LIKE?

- A varied job – different challenges every day
- Career opportunities in the UK and overseas
- Make a difference to the way people live & work
- Work in teams, alongside Building Users, Architects and Structural Engineers
- Design using 2D and 3D software
- Help clients visualise design schemes using 3D renders and images
- Produce sustainable designs & reduce environmental impact
- Educate building users to reduce their day to day energy use and carbon footprint
- Design high efficiency, high performing buildings
- Attend meetings, surveys & visit building sites
- Carry out designs for all sorts of clients from major industries to residential home owners

Check your skills – is this the career for you?

- ✓ Enjoy solving challenges
- ✓ Keep calm under pressure
- ✓ Confident and ready to learn
- ✓ Self-motivated
- ✓ Ready to help your team out
- ✓ Like to analyse technical information and data
- ✓ Can think both creatively & logically
- ✓ Organised
- ✓ Great attention to detail

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GETTING INTO BUILDING SERVICES

To study at Level 4 (Higher National Certificate) you need:

- Four GCSEs, grade 4+, including maths & English
- Related Level 3 diploma or
- A-levels including Maths or Sciences

Attend college to study BTEC HNC in Construction Building Services

Level 4

To study at Level 5 (Higher National Diploma) you need:

- Four GCSEs, grade 4+, including maths & English
- 64 UCAS tariff points including Maths or Sciences or
- BTEC HNC in Construction Building Services (HVAC) Level 4

Attend college / uni to study BTEC HND in Building Services Engineering

Level 5

To study at Level 6 (Degree or Degree Apprentice) you need:

- Four GCSEs at grade C/4 or above, including maths & English
- 112 UCAS tariff points including Maths
- At least 2 A-Levels including Maths grade C+ or
- BTEC Diploma/ HNC/ HND / Foundation degree in related subject

Attend uni to study BEng(Hons) Building Services Engineering

Level 6

To study at Level 7 (Masters) you need:

- Honours degree 2:2+ in relevant degree

Attend uni or distance learning to study MSc Building Services Engineering

Or get a job as a graduate engineer and progress towards Chartership through a technical route

Level 7

- Each level of learning presents different opportunities to suit the way you want to work and study.
- Think about whether you prefer a full-time study course or part time learning.
- Are you keen to study and live locally or travel further afield to learn and live?
- Want to earn-while-you-learn? Work 4 days a week and go to college on a weekly day placement.
- Are you interested improving your professional qualifications?
- Study for a degree with on-the-job learning too? A degree apprenticeship may be an option for you.
- We recruit and support our Degree Apprentices to achieve Level 6 qualifications and beyond.

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Our Engineers are really important to us and we like to give them the best career start possible! If you are interested in discussing career opportunities, apprenticeships or organising a work experience placement, get in touch. We're a friendly bunch & would be delighted to hear from you.

More info about Building Services:

CIBSE (Chartered Institute of Building Services Engineers)

www.cibse.org

Engineering Degrees

Engineering degrees can be found at almost all UK Universities including:

UWE (www.uwe.ac.uk)

University of Bristol (www.bristol.ac.uk)

University of Exeter (www.exeter.ac.uk)

Building Services Degree Course

https://courses.uwe.ac.uk/HK10/building-services-engineering

Degree Apprenticeships

https://courses.uwe.ac.uk/ST0372/building-services-engineer

HNC/HND

https://www.bathcollege.ac.uk/study-with-us/higher-education-courses