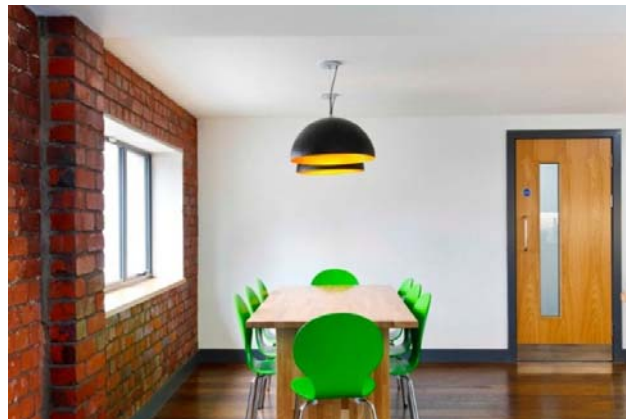
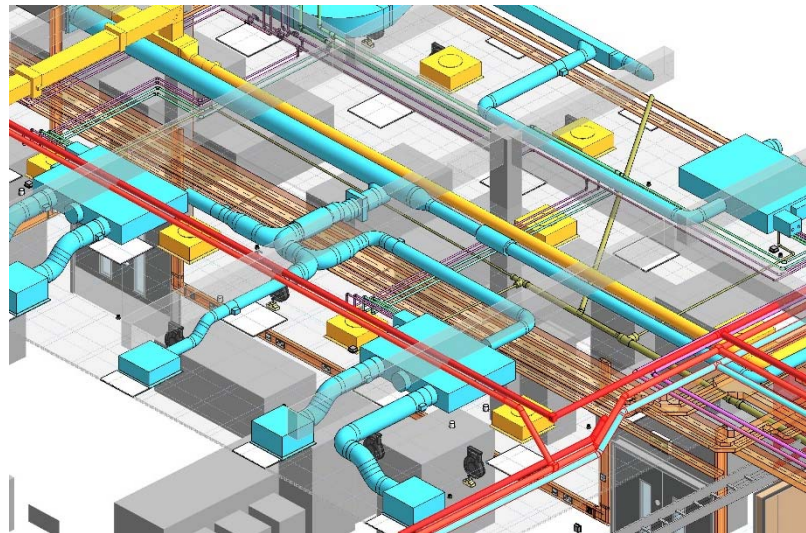


Building Services Engineering An Introduction

January 2020



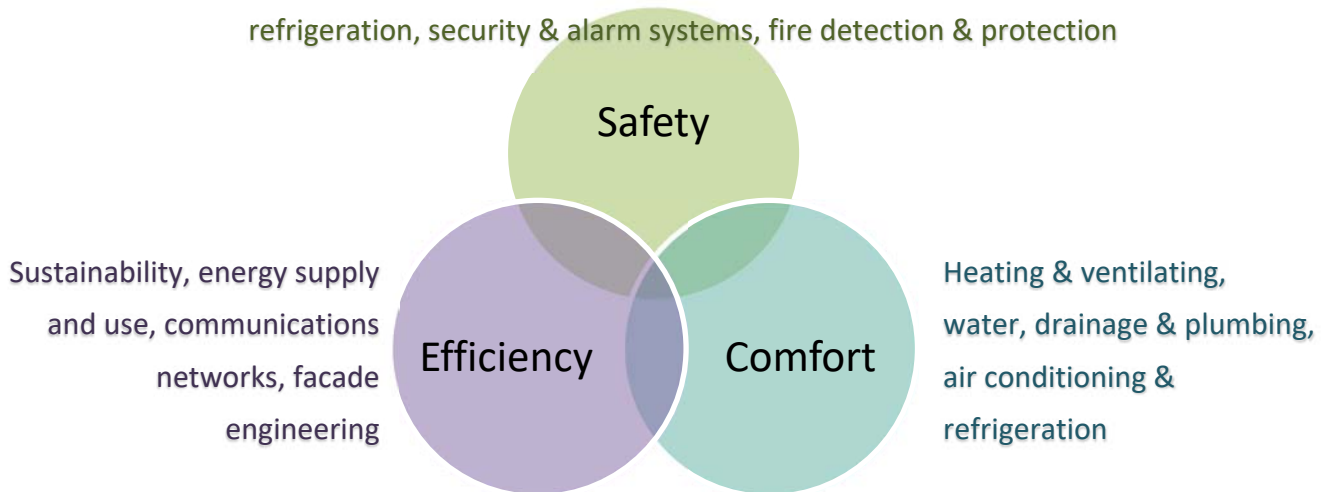
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**Smith
Consult**
building services engineering

WHAT IS BUILDING SERVICES ENGINEERING?

It helps buildings to meet the needs of the people who live and work in them i.e. provide a safe and healthy environment in which people can live, work and achieve. Building Services Engineering makes buildings work and uses scientific principles to design services for buildings, focusing on:

Daylight & artificial lighting, escalators & lifts, ventilation & refrigeration, security & alarm systems, fire detection & protection



BUILDING SERVICES ENGINEERS – WHAT IS THE WORK LIKE?

- It's 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
- Use sustainable design & 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, survey and 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?

- ✓ Like to analyse technical information and data
- ✓ Enjoy solving challenges
- ✓ Keep calm under pressure
- ✓ Confident and ready to learn
- ✓ Can think both creatively and logically
- ✓ Organised
- ✓ Enjoy solving challenges
- ✓ Self-motivated

GETTING INTO BUILDING SERVICES

- Four GCSEs at grade C/4 or above, including maths, science & english
- Level 2 diploma in a relevant subject such as construction, engineering or science with at least four merits
- Enter as a junior apprentice & attend college to further learning

Level 2

- 1 relevant A-Level ideally Maths
- HNC in building services, built environment, science or engineering
- Enter as an apprentice & attend college to achieve HND or uni as a degree apprentice to achieve a building services degree BEng over 5 years

Level 3/4

- 1 relevant A-Level ideally Maths
- HND / Foundation degree in building services, built environment, science or engineering
- Enter as an apprentice & attend college to achieve HND or uni as a degree apprentice to achieve a building services degree over 3 years

Level 5

- Degree in building services, engineering, architectural engineering, sustainability studies
- Enter as a graduate engineer and learn on the job while you advance your professional qualifications

Level 6

- 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?
- Do you 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?
- Would you like to study for a degree but enjoy on-the-job learning too? A fully funded degree apprenticeship may be an option for you.
- We employ engineers at all levels and support them with their study plans.

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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 are a friendly bunch and would be delighted to hear from you.

More info about Building Services:

CIBSE (Chartered Institute of Building Services Engineers)

www.cibse.org

www.cibse.org/building-services/downloadable-resources/building-services-careers-guides

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>

<https://www.lsbu.ac.uk/study/course-finder/building-services-engineering-beng-hons>

Degree Apprenticeships

www1.uwe.ac.uk/business/degreeapprenticeships.aspx

HNC/HND

www.bathcollege.ac.uk/product/building-services-engineering-hnc