



Suffolk Joint  
Construction  
Committee

# Building Services Engineer

Building services engineers breathe life into buildings. They create the heart, lungs and brain of buildings designing the heating, cooling, ventilation, electrical and control systems.

## THE ROLE

Buildings generate by far the largest energy use and carbon emissions within the UK and the building services engineer is responsible for designing and influencing these through leadership, design, specification of products and management of the process.

You will develop core skills, such as technical competence, communication, and general knowledge of the construction process. You could specialise in either mechanical engineering (heating, ventilation, air conditioning, water and drainage) or electrical engineering (lighting design, power, control systems, etc).

Specialist roles such as building energy modelling, Computer Aided Design, lighting design, renewable energy specialism, project management, site based roles all become career options as you develop skills knowledge and experience.

## SALARY EXPECTATIONS

A junior engineer earns around £20,000 to £28,000

An intermediate engineer earns around £33,000 to £50,000

A building services senior engineer can earn between £40,000 and £55,000 a year

## CAREER PROGRESSION

JUNIOR  
ENGINEER

INTERMEDIATE  
ENGINEER

SENIOR  
ENGINEER

PRINCIPLE  
ENGINEER

# Building Services Engineer

## ENTRY ROUTE

A career in building services consultancy can start at various levels, entering the construction industry from sixth form or University. Career paths follow the routes set out in the Engineering Council guidelines and CIBSE guidelines.

Sufficient UCAS points to allow entry to an appropriate HND course. Accredited engineering degree following an HND course, or suitable BSc, BEng (Hons) in Building Services engineering. This can be part time or full time. Master's degree will be beneficial to achieve chartered engineer status (CEng).

- Good numeracy and literacy skills
- Problem solving ability utilising creative thinking
- The ability to review and analyse data and drawings
- The ability to communicate effectively both written and oral
- The ability to learn new skills and adapt to change

## TYPICAL TASKS FOR A BUILDING SERVICES ENGINEER:

- Design and calculations
- Project management
- Computer Aided Design (CAD) and Building Information Management (BIM)
- Site inspections
- Writing reports, specifications and letters
- Sustainability and energy consultancy

**For more information on becoming a building services engineer visit:**

[www.goconstruct.org](http://www.goconstruct.org)

[www.rics.org](http://www.rics.org)

[www.citb.co.uk](http://www.citb.co.uk)

**or talk to your local college**

## Your career journey starts here!

