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UNIVERSITY



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**BEng (HONS)  
BUILDING SERVICES  
ENGINEERING**  
DESIGN ENGINEER

**BSc (HONS)  
BUILDING SERVICES  
ENGINEERING**  
DESIGN ENGINEER  
LEVEL SIX TOP-UP

DEGREE APPRENTICESHIPS

Attract new talent and develop existing  
staff at Leeds Beckett University

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# **BEng (HONS) BUILDING SERVICES ENGINEERING DESIGN ENGINEER**

# **BSC (HONS) BUILDING SERVICES ENGINEERING DESIGN ENGINEER LEVEL SIX TOP-UP**

## **KEY INFORMATION**

### **ENTRY REQUIREMENTS**

#### **BEng (HONS) BUILDING SERVICES ENGINEERING – DESIGN ENGINEER**

Minimum 112 UCAS points, or equivalent. GCSE English Language at Grade C or above and Mathematics at Grade B or an equivalent qualification. Apprentices without formal qualifications but with sufficient relevant work experience will be welcome to join the course.

#### **BSc (HONS) BUILDING SERVICES ENGINEERING – DESIGN ENGINEER LEVEL 6 TOP-UP**

An appropriate Level 4 qualification i.e. HND, Foundation Degree (FdSc) or Higher Level Apprenticeship in a cognate subject area. GCSE English Language at Grade C or above and Mathematics at Grade B or an equivalent qualification. Apprentices without formal qualifications but with sufficient relevant work experience will be welcome to join the course.

### **FEES**

Fees for the course will be a maximum of £27,000 over Five years (dependent on level of entry).

### **FUNDING**

If the annual pay bill of your organisation exceeds £3m you will pay for your apprenticeship training through your levy account. If you are a non-levy paying organisation the government will co-fund your apprenticeship training by contributing 95% of the costs and you will pay the remaining 5% of costs.

### **COURSE DURATION**

**BEng (Hons) Building Services Engineering –  
Design Engineer:** 5 years

**BSc (Hons) Building Services Engineering –  
Design Engineer (L6 Top-up):** 2 years

Please contact us to discuss course start dates.

### **HOW TO APPLY**

#### **INDIVIDUALS**

Apply direct to an employer offering opportunities on the programme. Visit our website for details of current vacancies.

#### **BUSINESS**

Contact the Degree Apprentice team.

T: 0113 812 4500

E: [apprenticeships@leedsbeckett.ac.uk](mailto:apprenticeships@leedsbeckett.ac.uk)

# EMPLOYER BENEFITS & REQUIREMENTS

## EMPLOYER BENEFITS

- Meet the unique needs of your business – with Degree Apprentices learning at work, they are able to develop the knowledge and occupational competencies demanded by specific job roles, and meet the unique needs of your business.
- Fill your higher-level skills gaps – higher-level skills are vital to business performance and economic growth. Through degree apprenticeships you can fill your higher-level skills gaps efficiently and effectively by tailoring the learning.
- Develop existing staff – you can develop your existing staff by allowing them to undertake a Degree Apprenticeship or enabling them to work with a Degree Apprentice in the workforce, through mentoring opportunities and more.
- Meet the targets of the Engineering Council UK and the ICE, to have most engineering staff with recognised professional qualifications such as Incorporated status.

## EMPLOYER REQUIREMENTS

- Every apprenticeship must have an Apprenticeship Agreement. This is a contract of service between the apprentice and the employer, confirming the apprenticeship and the standard been undertaken. This will be supplemented by a 'Statement of Commitment' signed by the employer, provider and apprentice, setting out the expectations, roles and responsibility of each party involved in the apprenticeship.
- Apprentices must be employed and paid at least a minimum wage appropriate to their age and job role.
- You will be responsible for recruitment of Degree Apprentices. However, we can work with you to promote your opportunities via our website.
- You will provide paid time off for on campus study.
- Apprentices require a workplace mentor who will oversee their development and coordinate projects and learning with the University tutor.

## FUNDING

If the annual pay bill of your organisation exceeds £3m you will pay for your apprenticeship training through your levy account. If you are a non-levy paying organisation the government will co-fund your apprenticeship training by contributing 90% of the costs and you will pay the remaining 10% of costs. For further information on apprenticeship funding visit the Government's website:

[www.gov.uk/government/publications/apprenticeship-funding](http://www.gov.uk/government/publications/apprenticeship-funding)

Our new Degree Apprenticeship courses are designed to offer organisations flexible pathways to develop skills, knowledge and competencies to match business and industry needs.

Apprentices will be in full-time employment whilst studying towards this degree. Modules will be delivered through part-time day release, work based learning and two-way knowledge transfer between industry and academia. This degree will enable apprentices to develop into confident and capable management professionals.

## HOW DOES THE DEGREE APPRENTICESHIP WORK?

The courses will take up to five years to complete, combining on-the-job practical training with integrated academic learning. This blended approach is designed to be flexible with a combination of face-to-face teaching, on-line learning and reflective practice and assessment. The experiential learning element of the course focuses on the student's workplace and specific areas of project work they are undertaking. This is linked to the CIBSE and Engineering Councils Assessment of Professional Competence helping the student work towards the end point assessment for the Degree Apprenticeship, which would enable students to gain accreditation as an Incorporated Engineer. Employers are also expected to engage with this element of study to help the student progress through their training.

## WHERE WILL STUDY TAKE PLACE?

Students will be required to attend the University on a day release basis.

# BEng (HONS) BUILDING SERVICES ENGINEERING DESIGN ENGINEER

This course is based on the existing part-time BEng (Hons) qualification and seeks to reflect the learning outcomes for the programme at level four, five and six respectively. It has been designed to develop the key areas of building services systems design, management of complex projects combined with low-carbon and renewable energy strategies as they relate to the built environment.

The Degree Apprenticeship programme is aimed at the Building Services Design Engineer standard published by the Institute of Apprentices. The course has therefore taken account of the expectations required by professionals employed in the field of Building Services Engineering and the wider built environment. The course is also intended to satisfy the requirements of the Chartered Institution of Building Services Engineers (CIBSE) providing the requirements to be able to achieve the professional standard of Incorporated Engineer (IEng/partial CEng.), whilst aiming to bridge the disciplines of engineering design, management and the built environment.

## MODULES STUDIED ON THE PROGRAMME

LEVEL 4	LEVEL 5	LEVEL 6
Building Services Design Principles	Air-conditioning and Refrigeration Systems	Building Physics (modelling and analysis)
Building Services Science	BMS and Controls	Intelligent Building Technologies
Electrical and Electronic Principles	Engineering Mathematics	Facilities Management and Maintenance
Thermofluids	Management Practice	Low Carbon Systems design
Mechanical Systems	Electrical Services and Lighting Systems	Dissertation
Advanced Mathematics	Facilities Management and Maintenance	

# BSc (HONS) BUILDING SERVICES ENGINEERING DESIGN ENGINEER LEVEL SIX TOP-UP

This course is based on the existing part-time BSc (Hons) qualification and seeks to reflect the learning outcomes for the programme at level 6, designed to develop the key areas of building services systems design, management of complex projects combined with low-carbon and renewable energy strategies as they relate to the built environment.

The programme has therefore taken account of the expectations required by professionals employed in the field of Building Services Engineering and the wider built environment. The course is also intended to satisfy the requirements of the Chartered Institution of Building Services Engineers (CIBSE) providing the requirements to be able to achieve the professional standard of Incorporated Engineer (IEng.), whilst aiming to bridge the disciplines of engineering design, management and the built environment.

## MODULES STUDIED ON THE PROGRAMME

LEVEL 6
Low-Carbon Buildings and Renewables
Financial and Commercial Management
Intelligence Buildings
Building Services Systems
Major Design Project

In addition to the academic subjects studied on the programme the apprentice will be expected to build a Work Based learning portfolio which will mapped directly to the criteria contained with the Design Engineer Apprentice standard and End Point Assessment (EPA) generated by the professional body.