

Foster + Partners

Role Definition

Job title: Building Services Design Engineer Apprentice – **Level 6**

Reporting to: Project Leader of the current project on a day-to-day basis and ultimately to the Senior Partner

Overview

The Building Services Design Engineer Apprenticeship teaches an apprentice the skills needed to design the various services found in buildings and infrastructure projects. The work typically includes systems such as renewable and emerging technologies, energy management, heating, ventilation, air conditioning, drainage, lighting, power, water services, building management systems, life-safety systems, communications and building transportation (e.g. lifts).

The typical duration for this apprenticeship is 60-66 months but this will depend on the previous experience of the apprentice and access to opportunities to gain the full range of competence. The successful apprentices will earn a BSc or BEng building services degree with accreditation by the relevant professional engineering institution.

An apprentice will spend 20% of the contracted time in the academic training and 80% of the time will be utilised to learn through practice. The offer of an apprenticeship will be conditional upon the applicant securing a place on the Level 6 course at our educational provider. Please note that we are unable to offer visa sponsorship for this role. Therefore, it is essential the applicant is eligible to work in the United Kingdom. Other eligibility requirements may also apply to meet apprenticeship regulations.

Responsibilities

- Assisting with design work, seeking to understand the design project
- To prepare, develop and edit, under the guidance of the project leader or nominated engineer, calculations, drawings, models, and other documents relating to the design
- To develop, where required, representations of design options for further discussion by the design team
- To record evidence of your professional experience in accordance with the requirements of the appropriate professional organisation.
- Thorough knowledge of and compliance with Foster + Partners procedures and standards
- To contribute, or otherwise assist, as required by the Project Leader or Group Leader, or nominated Engineer.

Qualities & skills required

Essential

- Have at least three A levels at Grades A*- B including Mathematics and Physical Science or their equivalent. These will need to be aligned with the Entry Requirements set by the Training Provider. We also welcome applications from individuals who have completed a university degree in a different field to engineering.
- Fluent in written and spoken English
- Able to demonstrate ability to undertake the above responsibilities
- Legally able to work in the United Kingdom
- Evidence of a good design understanding e.g. a good design portfolio
- Good interpersonal skills and the ability to work well in a team

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- Ability to use a variety of media in the development and documentation of a design project
- A flexible and open attitude towards new ways of working and commitment to independent, life long learning
- Able to operate in a dynamic and changing environment
- Confidence in working in a complex and international environment
- Strong time management skills to balance working and learning commitments
- Able to build good relationships at all levels, internally and externally
- Resilient to cope with conflicting demands, able to prioritise duties and work effectively under pressure and meet deadlines
- Have a strong commitment to health, safety, and welfare.
- Show personal commitment to professional and ethical standards
- Recognize their obligation to society, the profession, and the environment
- Take responsibility for personal development, committing to learning and self-improvement
- Be open to feedback

Desirable

- Ability to use, or at least have knowledge of, some of the following: AutoCAD, REVIT, Adobe InDesign/Photoshop, MS Office, Power BI, TEAMS and Programming Languages (Python/Java/C/C++).

This description reflects the core activities of the role but is not intended to be all-inclusive and other duties within the group/department may be required in addition to changes in the emphasis of duties as required from time to time. There is a requirement for the post holder to recognise this and adopt a flexible approach to work. Job descriptions will be reviewed regularly and where necessary revised in accordance with organisational needs. Any major changes will be discussed with the post holder.

February 2023