

Senior Electrical Engineer/ Project Associate (Electrical)

Manchester

Purpose of Job:

We are looking for a Senior Electrical Engineer or Project Associate (Electrical) to join our busy building services design team based in our Manchester office.

Applicants will already be working at a senior engineer level and ideally have the desire to progress their career to a management position. Candidates will preferably be degree qualified and have attained or be working towards Chartered engineer status. Candidates should be able to demonstrate relevant skills and experience within a similar role.

Duties and Responsibilities:

- + Provide input on design strategy and conceptual design relative to electrical installations
- + Undertake design calculations relevant to the design of electrical installations within major building projects
- + Design electrical installations including the production of design drawings, diagrams and schematics along with project specifications and schedules
- + Design electrical installations to meet all existing, relevant British Standards, Building Regulations and other relevant standards
- + Design electrical installations to meet requirements for energy efficiency and low carbon requirements
- + Prepare technical proposals and specifications for work
- + Prepare and take responsibility for concept & preliminary engineering solutions, working directly with clients and stakeholders
- + Lead an M&E Team in the coordination and delivery of individual projects, including attendance at meetings, internal programming, project reviews etc.
- + Undertake lead engineer duties including checking of other engineers' work and take an active role in the development of trainees
- + Manage client and design team relationships. Understand client needs and interpret and confirm the project brief
- + Provide assistance and support to other members of the engineering team within the office
- + Undertake constructive peer reviews of other design projects
- + Set up and manage project administrative systems including planning and monitoring progress in respect to time, cost (ie TB+A fee management) and quality
- + Have an understanding of electrical engineering systems and the ability to report of both disciplines during meetings
- + Commit to supporting strategic TB+A sustainability policies and our internal environmental programme objectives

Training Programme requirements:

- + Commit to goals and objectives of a career development programme including attendance of in-house and external technical and non-technical training.
- + Commit to achieving or maintaining Chartered Engineer status through relevant professional institution
- + Support the development of team members and undertake the mentoring of members of the engineering team
- + Familiarise and learn about sustainable low energy initiatives and to share this with other members of your team and wider within the Partnership

Person Specification:

	Essential	Desirable
Knowledge	<p>Ability to apply theoretical principles to the practical design of building systems</p> <p>Sound knowledge of how buildings are built and the design process that goes into their design</p> <p>Detailed knowledge of engineering design approach and fundamentals of mechanical engineering</p> <p>Understanding of the role of the engineer in the design process</p>	<p>Specialist knowledge of particular electrical systems</p> <p>Awareness of energy and environmental related EU and UK Directives / Regulations</p>
Skills	<p>A strategic thinker with a proactive attitude and attention to detail, well organised</p> <p>Excellent team working and inter-personal skills, good communication within a team and externally</p> <p>Good time management and ability to prioritise</p> <p>Good numeracy and literacy</p> <p>Able to present and explain the thought processes and engineering processes behind their own design work</p>	
Experience, qualifications and prospects	<p><u>Qualifications:</u> BEng, BSc, MEng or MSc in relevant engineering subject, e.g. Architectural Engineering, Building Services Engineering or Electrical Engineering or HNC/HND in relevant engineering subject</p> <p><u>Experience:</u> Demonstrable project management skills. Software skills including: Hevacomp/Amtech, Dialux/Relux, Barbour Index, Specification Expert, Microsoft Office.</p> <p>Experience in CAD drafting systems</p>	<p>Specialist interests or qualifications, e.g. renewable energy, low carbon design, BREEAM, lighting design, LCC registration or other relevant topic</p> <p>Experience in Modelling software</p>
Attributes and Personal characteristics	<p>Logical thinker, scientific and analytical – having an engineering approach to problem solving</p> <p>Flexible outlook and attitude to work, approachable and personable</p> <p>Works on own initiative but equally can lead a team</p> <p>Commitment to maintaining high quality standards with an eye for detail</p>	<p>An interest in architecture, landmark buildings and new technologies</p> <p>An interest in renewable energy technologies</p> <p>An interest in environmental sustainability in the workplace and home</p>