

Senior Mechanical Engineer

Cardiff

Purpose of Job:

We are looking for a Senior Mechanical Engineer to join one of our busy building services design teams based in our Cardiff 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 able to demonstrate that they are working towards Chartered engineer status.

Candidates should be able to demonstrate relevant skills and experience within a similar role and have experience of working independently to proactively deliver project scope whilst leading numerous projects simultaneously.

Duties and Responsibilities:

- + Provide input on design strategy and conceptual design relative to mechanical installations
- + Undertake design calculations relevant to the design of mechanical installations within major building projects
- + Design mechanical installations including the production of design drawings, diagrams and schematics along with project specifications and schedules which meet all existing, relevant British Standards, Building Regulations and other relevant standards
- + Design mechanical installations to meet energy efficiency and low carbon requirements
- + Prepare technical proposals and specifications for work
- + Prepare and take responsibility for concept and preliminary engineering solutions
- + Set up and manage project administrative systems including planning and monitoring progress in respect to time, cost (fee management) and quality
- + Lead an M&E Team in the coordination and delivery of individual projects, including attendance at meetings, internal programming, project reviews etc.
- + Act as Lead Mechanical Engineer including checking of other Engineers' work and take an active role in the development of Junior Engineers
- + 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
- + 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

This list is not exhaustive, and we would expect the successful candidate to be willing to undertake additional duties to support the team when necessary.

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 mechanical systems</p>
Skills	<p>Excellent team working and inter-personal skills</p> <p>Organisational skill with attention to detail and accuracy</p> <p>Time management and ability to prioritise at busy times</p> <p>Good numeracy and literacy</p> <p>Good communication within a team and externally with other companies</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 Mechanical Engineering A Levels or HNC/HND in relevant engineering subject e.g. Building Services Engineering, Mechanical Engineering</p> <p><u>Experience:</u> Demonstrable project management skills</p> <p>Software skills including: Hevacomp/IES, Barbour Index, Specification Expert, Microsoft Office</p> <p>Candidates for this position would be expected to demonstrate suitable experience in a similar role</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 CAD drafting software e.g. AutoCad 2013</p> <p>Experience in Modelling software, e.g. IES</p>
Attributes and Personal characteristics	<p>Logical thinker, scientific and analytical – having an engineering approach to problem solving</p> <p>Methodical and thorough</p> <p>Flexible attitude to work and proactive team member</p> <p>Works on own initiative but equally can lead a team</p> <p>Approachable and personable</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>