

# Mechanical Engineer

## Belfast

### Purpose of Job:

We are looking for a Mechanical Engineer to join one of our busy building services design teams based in our Belfast office.

Applicants would ideally be HND or degree qualified and have attained or be working towards chartered engineer status and should be able to demonstrate relevant skills and experience within a building services consultancy.

### 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
- + Design mechanical installations to meet all existing, relevant British Standards, Building Regulations and other relevant standards
- + Design mechanical installations to meet requirements for energy efficiency and low carbon requirements
- + Work as part of a team to meet project brief and programme requirements
- + 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
- + 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 other tasks.

### 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
<b>Knowledge</b>	<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>Ability to co-ordinate MEP installations within the overall design of buildings</p> <p>Understanding of the role of the engineer in the design process</p>	<p>Specialist knowledge of particular mechanical systems</p>
<b>Skills</b>	<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</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>	
<b>Experience, qualifications and prospects</b>	<p><u>Qualifications:</u> HNC/HND in relevant engineering subject e.g. Building Services Engineering, Mechanical Engineering</p> <p><u>Experience:</u> Demonstrable project management skills. Software skills including: Hevacomp/IES, Barbour Index, Specification Expert or NBS specification writing tools, Microsoft Office</p> <p>Candidates for this position would be expected to demonstrate suitable experience in a similar role</p> <p>Experience in CAD drafting software e.g. AutoCad</p> <p>Knowledge of RIBA Plan of Work</p>	<p><u>Qualifications:</u> BEng, BSc, MEng or MSc in relevant engineering subject, e.g. Architectural Engineering, Building Services Engineering or Mechanical Engineering</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 BIM/Revit 3d Modelling</p> <p>Experience in Modelling software, e.g. IES</p>
<b>Attributes and Personal characteristics</b>	<p>Logical thinker, scientific and analytical – having an engineering approach to problem solving</p> <p>Methodical and thorough</p>	<p>An interest in architecture, landmark buildings and new technologies</p>

	<p>Flexible attitude to work</p> <p>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 renewable energy technologies</p> <p>An interest in environmental sustainability in the workplace and home</p>
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