**SELWOOD LTD**

**POSITION DESCRIPTION: Electrical Design Engineer**

**LOCATION:** Various

**POSITION PURPOSE:** The Electrical Design Engineer will be responsible for designing and developing electrical systems and solutions for a variety of projects for Selwood Pump Rental Solutions, ensuring that they meet both functional requirements and safety standards. The Electrical Design Engineer will work closely with the solutions team, project managers, and project delivery team to deliver high-quality electrical designs within budget and schedule.

**RESPONSIBLE TO:** M&E Pre-Construction Team Lead

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| **REGULAR CONTACTS:** | **External**  | Customer representativesOther site contractorsSupplier Contacts |
| **Internal** | Engineering and Design ManagerHead of Project DeliveryProject ManagersSite AgentsSolutions DirectorsSenior Solutions ManagersSolution TeamsInstallation and Electrical Managers and TeamsApplication Support ManagersSupercentre TeamsProject Support Co-ordinatorsProject controllersCommercial Team B.I.M TeamSHEQHR |

**MAIN RESPONSIBILITIES:**

* Prepare detailed electrical design calculations, drawings, and specifications, ensuring compliance with relevant codes, standards, and regulations (e.g., IEE, IEC, BS standards).
* Develop electrical schematics, wiring diagrams, and panel layouts using CAD software.
* Provide technical advice and guidance on electrical systems during all project phases, from concept through to build and commissioning.
* Review project plans, specifications, and proposals to ensure compliance with electrical system design standards.
* Foster a collaborative environment that encourages growth and knowledge sharing.
* Collaborate with cross-functional teams, including Solutions, BIM Team, and Project Managers, to integrate electrical systems with Selwood projects.
* Ensure transparent communication and manage expectations, including timely communication on any delays or potential threats/risks.
* Ensure all electrical designs adhere to health, safety, and environmental regulations.
* Conduct electrical load calculations and fault analysis to ensure system safety and reliability.
* Perform risk assessments to identify potential electrical hazards and design mitigating solutions.
* Work with the commissioning team to troubleshoot and resolve any issues during the testing phase.
* Maintain accurate records of electrical designs, changes, and approvals.
* Prepare reports and presentations for internal stakeholders and clients.
* Provide regular progress updates and technical reports to the project team.
* Promote a culture of continuous learning and innovation within the team.

The main responsibilities are outlined above. This is not a definitive list and other tasks/activities may be necessary as the Company’s commercial activities require.

**QUALIFICATIONS & EXPERIENCE:**

* Bachelor’s degree in electrical engineering or a related field.
* Proven experience as an Electrical Design Engineer, with a strong portfolio of successfully completed electrical designs.
* Experience with electrical system design.
* Strong understanding of electrical design software, such as AutoCAD Electrical, Revit, or similar tools.
* Ability to perform risk assessments and safety evaluations.
* Ability to work independently and under pressure to meet deadlines.
* Strong communication and teamwork skills, with the ability to collaborate effectively with cross-disciplinary teams.
* In-depth knowledge of electrical codes, standards, and regulations (e.g., IEE Wiring Regulations, IEC standards, etc.)
* Familiarity with electrical design calculations, such as fault level calculations, cable sizing, and protection coordination.