**SELWOOD LTD**

**POSITION DESCRIPTION: CAD Design Engineer**

**LOCATION:** Chandler’s Ford Pump rental

**POSITION PURPOSE:** The CAD Design Engineer will be responsible for creating, modifying, and optimising technical drawings and 3D models using Computer-Aided Design (CAD) software for Selwood Pump Rental Solutions. The CAD Design Engineer will work closely with the Innovations team and other stakeholders to ensure that designs are accurately represented, meet technical specifications, and comply with industry standards.

**RESPONSIBLE TO:** Engineering and Design Manager

**RESPONSIBLE FOR:** N/A

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| **REGULAR CONTACTS:** | **External**  | Supplier ContactsCustomer representatives |
| **Internal** | Head 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:**

* Create accurate 2D and 3D technical drawings, models, and schematics based on design requirements.
* To ensure designs are functional, safe, and cost effective, while maintaining the highest quality and Health & Safety standards
* Develop and modify CAD drawings for various engineering disciplines, including mechanical, electrical, civil, or structural engineering, depending on the project's needs.
* Convert concepts and sketches into detailed design drawings with precise dimensions, tolerances, and material specifications.
* Ensure designs meet industry standards, regulations, and client specification.
* Foster a collaborative environment that encourages growth and knowledge sharing.
* Collaborate with cross-functional teams, including Solutions, BIM team, Electrical team and Project Managers, to create CAD models for Selwood projects.
* Ensure transparent communication and manage expectations.
* Ensure all CAD files and documents are properly organized, archived, and accessible for future use or revision.
* Identify opportunities for design improvements or cost-saving innovations using CAD tools and techniques.
* Support the integration of new CAD technologies and techniques into the workflow to enhance efficiency and precision.

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 civil engineering, structural engineering, mechanical engineering or a related discipline.
* Proven experience as a CAD Design Engineer or in a similar role within an engineering or design environment.
* Familiarity with engineering principles, drafting techniques, and the ability to interpret technical drawings and specifications.
* Proficiency in CAD software (AutoCAD, SolidWorks, etc.), as well as additional tools such as Microsoft Office Suite.
* Knowledge of industry standards, drawing conventions, and best practices in CAD design.
* Strong ability to create complex models and assemblies for prototypes and production.
* Excellent attention to detail and accuracy in work.
* Strong problem-solving and analytical skills.
* Ability to manage multiple projects, meet deadlines, and prioritise tasks effectively.
* Understanding of Finite Element Analysis process (desirable).
* Good communication and teamwork skills, with the ability to collaborate with multidisciplinary teams.