



JOB DESCRIPTION:

Position Title: Junior Mechanical Design Tech

Reports To: **Sr. Design Tech / Operations Manager**

Position Details: The Mechanical Design Tech will assist the team and as a team be responsible for analytical design, applying various load cases and working within defined dimensional, weight and other constraints, and establishing required details for design integrity of mine equipment by working closely with others to establish final designs complying with specifications and functional requirements.

The Mechanical Design Tech will have mechanical aptitude skills in design of heavy-duty equipment, machining, and structures, preferably in relation to the underground mining industry. The Mechanical Design Tech will also assist in the operation of equipment when required that is dependent on the design component of the plant including, plasma table, CNC metal works equipment, and efficiency planning of such. Proficiency in the use of SolidWorks / AutoCAD and be well versed in Microsoft Office application software is required

The Mechanical Designer Tech will be a well skilled individual(s) exercising self-initiative, possessing abilities to arrive at innovative and practical design solutions, having strong communications skills, and demonstrating strong organizational qualities.

Areas of Responsibility

- The Mechanical Designer Tech will be required to satisfy our growing operations and upcoming projects.
- Will analyze, conceptualize and develop and build parts for mechanical mobile mine equipment. Structures and interiors of mine equipment.
- Be capable of taking the design from conceptual stage through to manufacturing with minimum supervision. You will solve various mechanical problems, participate in product development and develop mechanical equipment layouts; demonstrate, review and train operators on the floor of details from drawings and designs;
- Check and validate all final design documentation, parts lists and drawings according to design and contract requirements, to ensure completeness and accuracy;
- Create full design packages including bill of material, outsourcing of drafting, etc. as required;
- Interact with Engineering, Purchasing, and Manufacturing and outside suppliers as required;
- Manage and control projects to ensure that objectives are met in an economical and timely manner, and that applicable standard, procedures and quality control requirements are met.

- Will communicate between the operators and the engineering dept. for effective and accurate metal works on the floor;
- Will suggest new process and efficiency tools through newer technology and equipment;
- Will plan, establish, coordinate and guide operators and management on QA/QC process and efficiency in the plant operations.

Education / Related Experience:

- College Diploma in Mechanical Engineering or equivalent;
- A minimum of 1 to 5 years of experience in a related field;
- A good knowledge on composite material, experience (asset);
- A strong experience with solid modeling;
- A demonstrated skill in product development with an understanding of manufacturability;
- A good knowledge of GD & T (Geometric Designs and Tolerances), sheet metal work and welding, (asset);
- Excellent English communication skills (written and spoken).

Other:

- Excellent interpersonal and communication skill
- Strong computer skills are imperative
- Self-started who can work within a team environment
- Some travel is expected
- Can work flexible hours when required
- Report writing and presentation skills
- Knowledge of mining operations and mining equipment
- Strong management skill set
- Health and Safety oriented

The above description reflects the general scope and nature of the work performed. This description is not intended to reflect every duty and responsibility of the position, but is intended to give a general outline of the position and its responsibilities. It is understood that the duties and responsibilities may change from time to time