



## MECHANICAL DESIGN ENGINEER

ALGOMA

Sault Ste. Marie, Ontario Canada

### The Company

For over a century Algoma has a proud history and strong traditions of being an industry leading manufacturer of hot and cold rolled sheet steels in carbon and high strength low-alloy grades and we are Canada's only plate producer. We are integral to the making of many of our modern day buildings, products and appliances. Our steel is used in construction, mining, manufacturing, automotive, shipbuilding, energy resources including renewable energy and military applications throughout North America. Today's steel industry is rapidly evolving and so are we, bringing new products to market that our customers need for their success. We are inviting everyone who has a talent and drive for superior performance, a desire to be part of a team of steel industry professionals focused on transforming our company to continue our century long tradition of delivering high quality steel products to our customers, improving the quality of life for our community, demonstrating industry-leading environmental stewardship and providing rich and rewarding careers for our employees.

### The Roles

We are seeking highly competent senior engineering professionals to join us and serve in the capacity of Senior Mechanical Design Engineer to lead a mechanical design engineering group. This position reports to our Manager – Mechanical Engineering.

The job role requires providing effective mechanical design engineering solutions to all operating and maintenance areas of the company and generating conceptual and complete detailed engineering documentation. We require someone who can take the ownership of the mechanical design engineering activities, personally carry out design work, lead a team of mechanical engineers and certify the engineering documentation with their Professional Engineer seal.

### Key Deliverables

- Effectively lead your team of mechanical design engineers.
- Provide and coordinate mechanical design engineering support to a project engineering group and to other areas of company operations.
- Verify and approve designs.
- Certify mechanical engineering documentation.
- Carry out conceptual and detailed design, creates BOMs and other engineering documentation.
- Perform engineering calculations and equipment sizing.
- Take ownership of designs from the designs conception through to manufacturing and assembly. Including signing off on final inspection check lists.
- Prepare technical bid specifications and evaluate technical aspects of proposals.
- Perform Health & Safety reviews for mechanical engineering projects prior to implementation.

### Core Competencies and Skills Required

- A Canadian Licensed Professional Engineer with experience in mechanical design engineering in a heavy industrial setting is preferred.
- Experience in designing custom machinery, mechanical devices, lifting equipment, hydraulic and pneumatic systems.
- Extensive knowledge of Geometric Dimensioning and Tolerancing (G,D &T) including the ISO letter numeric tolerance system
- Incumbent must have a strong practical knowledge of choice of materials, heat treatment, finishes, welding, hydraulics and pneumatics
- Experience with stress analysis and Finite Element Analysis (FEA)
- Thorough understanding of fabrication and assembly processes
- Experience applying Design for Manufacturing and Design for Assembly principles
- Extended experience in sizing of machine components
- Advanced user of SolidWorks and AutoCAD, experience with FEA software
- Previous experience with piping design, flow and thermal analysis considered an asset.
- Previous manufacturing front line experience is preferred.

If you meet the qualifications for this position and are committed to a challenging career with a dynamic company, in a community that offers superior quality of life, please submit your resume to [algoma.careers@essar.com](mailto:algoma.careers@essar.com) referencing the job title in the subject line.

To learn more about our company, please visit [www.algoma.com](http://www.algoma.com).

*We are an equal opportunity employer and encourage diversity in our workplace. Accommodation is available for applicants with a disability. We thank all applicants for their interest however, only those candidates that are selected for an interview will be contacted.*

**Fulltime permanent unionized position**

**Work week – 40 hours**

**Salary Range - \$83,000 to \$104,000 (depending upon experience)**

**Extended Health Benefits package, Profit Sharing and a Defined Contribution Pension Plan**