



Armatec is looking for a Design Engineer!

Please note that to be a candidate for this position, you must be able to obtain Government Security Clearance.

An innovative company with an entrepreneurial spirit, Armatec was established in London, Ontario, Canada in 1997. In the last 20 years Armatec has established itself as a significant player in the defence survivability market. Our products are instrumental in saving soldiers' lives around the world and we continually strive for innovation and product excellence.

Armatec is looking for a professional with passion, energy and initiative who wants to join our team. The successful candidate will have proven experience with a desire to think outside common boundaries and an appetite for growth. Key requirements for the individual looking to join our team of cultural high performers is a team player with excellent listening and inter-personal skills, the ability to empower your team and foster inter-departmental synergy.

Armatec prides itself on the highest standard of ethics and compliance to our values, our mission and vision; all key to the future innovation and growth of our company.

Do you have what it takes to provide guidance and mentorship in this fast moving and high tech environment?

Position Title: Design Engineering Specialist

Location: Dorchester, Ontario

General description

Working closely with customers and industry partners, you will develop, prototype, test and ensure production readiness of parts, assemblies and systems. Hands on experience in a prototyping environment is essential; as designers take part in the initial production of their designs. This type of environment demands a creative and experienced individual, where a challenge is the motivation to get the job done.

Prerequisite Skills and Qualifications:

- Bachelors or Master's Degree in Mechanical Engineering or related field.
- 10+ years of relevant experience or 5+ years of direct experience designing military survivability systems
- Demonstrated experience and understanding of:
 - Basic design calculations and techniques used in engineering analysis.
 - Technical drawing interpretation and creation in accordance with ASME Y14.100 and associated standards.
 - Geometric dimensioning and tolerancing (GD&T) in accordance with ASME Y14.5.
 - 3D modeling using SolidWorks 2017 (or similar).
- Knowledge of metallic design, manufacturing and associated welding practices.
- Knowledge of surface treatments required for environmental protection, adhesion or wear.
- Ability to develop weld fixtures and other manufacturing tooling.
- Ability to develop work instructions and procedures.
- Technical report writing and presentation experience.
- Proven ability to effectively troubleshoot and problem solve.

Essential Duties:

The duties associated with this position include, but are not limited to:

Technical

- Interpret technical requirements to develop component level specifications.
- Create and sketch design concepts to meet technical requirements.
- Develop simple free body diagrams for single components and systems to define load cases.
- Evaluate and calculate component stresses resulting from defined load cases.
- Conduct material selection based on resulting stress and trade off studies.
- Develop 3D models using SolidWorks 2017.
- Produce drawings in accordance with ASME Y14.100 drawing standards and associated standards (i.e. ASME Y14.5, Y14.24, etc.).
- Conduct part and system level tolerance stack-up analysis.
- Develop welding requirements in accordance with ANSI/AWS welding standards.
- Develop and document data, analysis, reports, presentations, proposals or similar using Microsoft PowerPoint, Word and Excel.
- Conduct manufacturability assessments during development.
- Perform basic trade studies to ensure an optimal balance between weight, cost, risks, functionality, reliability and maintainability have been achieved.
- Plan and execute verification activities.
- Write technical reports and analyses to verify requirement compliance.
- Perform detailed FMECA analysis on components, assemblies and systems.
- Conduct safety, reliability and maintainability and human factors engineering analyses.
- Manage engineering data using content management system (training provided).
- Implementation of Engineering Change Orders (ECOs).
- Peer review concepts, models, drawings, reports or similar.
- Provide technical field support as required.

Personal and Project Management

- Adhere to customer and corporate requirements as well as applicable standards.
- Assist in developing project plans and schedules.
- Assist in developing risk mitigation plans.
- Review and resolve issues associated with production, productivity, quality, and customer expectations.
- Present and participate in design reviews.
- Estimate and track task durations.
- Identify opportunities for improvement (schedule, design, process or similar).
- Liaise with other departments within the company to ensure others have the necessary information required to meet the projects requirements.

Armatec offers a competitive compensation package with a comprehensive, flexible group benefits program.

Qualified candidates may apply to: hr@armateconline.com. Please **include position title in e-mail subject line**. We thank all who apply, but only applicants selected for an interview will be contacted.

Equal Employment Opportunity

Armatec is committed to Employment Equity, welcomes diversity in the workplace, and encourages applications from all qualified individuals.