



## STEMCO Job Description

**Job Title:** Product Engineer-ITMS  
**Reports To:** ITMS Engineering Manager  
**Job Function:** Engineering  
**Job Code:** 2014119

**Brand/Product Affiliation(s):** STEMCO ITMS  
**Revision Date:** 8/26/2016  
**Location:** Hayward, California  
**Direct Reports:** None

### Position Summary

Working in conjunction with a senior product engineer, the product engineer is responsible for design, development, validation, release and launch of new products. The individual has the ability to work in multiple projects that require developing mechanical and electromechanical products for the Innovative Tire and Mileage Solution department; this involves an active understanding of customer & marketing requirements during the entire product development cycle. It includes extensive research, executing technical feasibility assessments, planning, design & prototyping, validation and new product launch. The product engineer is responsible for continuous improvement of current production products and assistance with manufacturing process improvement, customer concerns, and supplier development.

This position is particularly related to our TrailerTail®, a one-of-a-kind aerodynamic technology that streamlines airflow at the rear of the trailer, folds elegantly to enable cargo access, and has the potential to deliver over \$4 billion in fuel savings and 10 million metric tons of carbon emissions reductions on an annual basis. The selected candidate will lead and execute multiple TrailerTail® product improvement projects with the mentorship and guidance of the senior product engineer. Specific projects include: redesigning existing mechanical components for improved field performance/longevity, redesigning existing mechanical components to reduce cost, and redesigning existing manufacturing jigs/processes for improved quality, safety, and cost.

### Essential Functions

#### Safety

- Embrace the values of the EnPro/STEMCO safety pledge in each of the below responsibilities. Participate in the organization's safety culture and aim to continuously improve safety within all aspects of your work.
- Embrace the EnPro core values of Safety, Excellence and Respect in everything we do.

#### Respect

- Foster a work environment that promotes mutual respect of all colleagues and creates an environment focused on a dual-bottom line.
- Interface with Engineering community for alignment, community-building, shared best practices, etc.
- A key role is to be recognized as the ITMS technical expert by supporting the sales teams during customer issues, develop our supplier base to meet the product specifications, and be involved in the manufacturing development process.

#### Excellence

- Promote the STEMCO / EnPro Culture by exhibiting the five principles of exemplary leadership: Modeling the

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Way, Inspiring a Shared Vision, Enabling Others to Act, Challenging the Process, and Encouraging the Heart.

- Concept generation, rapid prototype building, and first-pass testing
- Detailed design and analysis, including impact on COGS, and validation testing, including preparing test requests and report
- Establish product requirements for performance, durability and reliability together with any other customer wants and needs
- Create new intellectual property for STEMCO
- Establish program timing together with members of appropriate teams to ensure adequate product testing and development and support of manufacturing engineering and supplier technical staff.
- Report progress to program goals on a regular and programmed basis to communicate risks, opportunities, and status of each new product program against established milestones.
- Work with manufacturing to resolve Requests for Deviations. Implement Cause and Corrective actions whenever possible.
- Additional responsibilities include: supplier relations, frequent customer communication, warranty analysis, and documentation and communication of enacted changes
- Collaborating with a team, contributing unique ideas, and influencing the design work of others

## Job Requirements and Qualifications

### Knowledge, Skills, and Abilities Required

- Minimum requirement of BS Mechanical Engineering.
- Minimum two years' experience in product design or other mechanical engineering professional experience, preferably in a cost-conscious industry and/or start-up environment.
- Must be computer literate in Windows applications, minimum word processing and spreadsheets.
- Working knowledge of CAD and/or CAE. SolidWorks and ANSYS preferred.
- Experience in design and application of assigned products or products requiring very similar skills and experience.
- Mechanically inclined and has frequent experience with rapid prototyping and use of hand tools.
- College experience with a Formula SAE racecar design team is preferred.
- A proficiency in effective problem solving methodologies & statistical tools are fundamental to succeed in this position; along with the minimum required experience stated in this job description.
- The ability to creatively apply principles of mechanics, aerodynamics, finite element analysis, and materials is highly desirable for this position.

## To Apply

- Visit [www.stemco.com/careers](http://www.stemco.com/careers)
- Click "Apply Now" near the bottom of the page
- Enter Job Code "2014119" as the Search Term
- Select this Position and follow Applying instructions at the bottom of this job description

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