

## POSITION DESCRIPTION

### WAGNER SPRAY TECH

Exempt:   X    
Non-exempt:       

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**Title:** Design Engineer I

**Date:** 2/1/04

**Reports to:** Engineering Manager

**Revised:** 2/1/15

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**Position Objective:** Responsible for overall design and documentation of new and revised current products. Must have a very high level of the ProE CAD design software skill and the ability to apply those skills in the development of complex surface models and assemblies. Is responsible for developing product concepts, creating working prototypes, and progress the development into production. Must guide designers and all design activities to meet project objectives. Must have a strong understanding of tolerances, materials, fit and other related product issues.

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#### **Accountabilities:**

<u>% of time</u>	<u>No.</u>	<u>Priority Order</u>
40%	1.	Function as the focal point in the CAD design process and lead Designers and Drafter in the design, development and introduction of new products using ProE and the core design tool. Take on the most complex CAD design problems that are beyond the skills of Designers.
20%	2.	Guide Designers and Drafters in materials, fits, tolerances and other related design projects.
10%	3.	Final review of all CAD models and supporting documentation for accuracy and completeness.
5%	4.	Review designs for Assembly/Manufacturing techniques.
10%	5.	Work with consultants and outside design firms on design issues.
5%	6.	Work with suppliers on the review of designs and tooling.
5%	7.	Work with Quality to set perimeters for production release.
5%	8.	Performs other duties and assumes accountabilities as apparent or as delegated.

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**Relationship To Others:**

- Lead the CAD group in the design and documentation of new products.
  - Give direction to Designers and Drafters on specific design targets.
  - Has overall responsibility for documentation drawing packages.
  - Has overall responsibility for design functions such as fits, tolerances, and related part functions.
  - Material choices on parts.
  - Responsible for drawing reviews with suppliers.
  - Works with related departments to refine Engineering issues such as Marketing, Sales, Testing Lab, Machine shop, Purchasing, etc.
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**Dimensions of Position:**

- Indirect supervision of Designers and Drafters to guide them in design development.
  - Work with confidential information including company financials and salary data.
  - Work with suppliers and consultants on design related functions.
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**Knowledge, Skills, and Abilities:****\*Education**

Bachelor's Degree in Mechanical Engineering or equivalent

**\*Experience**

One to three years related design experience

**\*Skills**

- Intermediate skill in Microsoft Office 2010, Word, Excel, and PowerPoint, MS Project, and MS Visio
- Advanced skill in Pro E, CREO, TK Solver, Ansys, Advanced Spring Design, and Integrated Gear
- Must be able to use accelerometer, vibration control systems, and vibration isolators
- Working knowledge of agency requirements (UL, CETL, CE), engineering documentation standards per ASME/ANSI, and understanding of geometric dimensioning and toleranceing per ANSI Y14.5
- Excellent critical thinking and complex problem solving skills
- Must be creative and innovation; develops fresh ideas that provide solutions
- Exercises good judgment and has good decisional making skills
- Practices active listening to give full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
- Ability to analyze needs and product requirements to create a design