

Job Description

Mechanical Engineer

Department:	CE Develop Eng (NY)	Job Grade:	Exempt
Reports To:	Product Engineering Supervisor	Job Location:	Horseheads, NY

SUMMARY

Conducts mechanical design and development of new or existing products or concepts while performing the following duties.

ESSENTIAL DUTIES AND RESPONSIBILITIES include the following. Additional duties may be assigned.

- Creates, revises, checks, and releases engineering drawings including detail part drawings, assembly drawings and layout drawings.
- Creates engineering documentation, including test plans, test instructions, test reports, assembly instructions, equipment checklists and preliminary operation manuals.
- Designs and implements customer specials and machine tooling as required.
- Interprets manufacturer specifications.
- Specifies orders and integrates new or replacement purchased components.
- Specifies materials, methods, mechanical components and subsystems.
- Designs mechanisms, power transmissions, packaging, guarding, fabrications, weldments, jigs and fixtures.
- Designs mechanical linkages and structures.
- Participates in machinery tests and evaluations, vibration, thermal and dynamic analyses, and analyses for mechanical failure.
- Provides technical assistance to suppliers, customers, manufacturing, purchasing and service. Also provides technical support to sales and marketing.
- Conducts consulting, installation, testing, training, troubleshooting, and other product support at customer field sites.

BASIC DUTIES & RESONSIBILITIES include the following. Additional duties may be assigned.

- Keeps abreast of latest available technology via trade shows, journals and seminars.
- Customer support and/or field service assistance may be required from time to time.
- Fabricates, assembles, and reworks parts relating to prototype and customer special devices.
- Assistance and/or training for manufacturing assemblers and technicians may be required.
- Occasional interaction with suppliers for new development, obsolete products, and quality issues are required.
- Promotes a safe work culture and ensures that personnel are adhering to the general safety rules and are trained in accordance to company policy.

SUPERVISORY RESPONSIBILITIES

This job requires no supervisory responsibilities.

TRAVEL

Occasional domestic and international travel may be required.

EDUCATION and/or EXPERIENCE

Bachelor Degree (BSME) or equivalent and 0 to 5 or more years of related experience and/or training; or equivalent combination of education and experience.

Job Description

QUALIFICATIONS

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

LANGUAGE SKILLS

Ability to read, analyze, and interpret general business periodicals, professional journals, technical procedures, or governmental regulations. Ability to write reports, business correspondence, and procedure manuals. Ability to effectively present information and respond to questions from groups of managers, clients, customers, and the general public.

MATHEMATICAL SKILLS

Ability to work with mathematical concepts such as probability and statistical inference, and fundamentals of plane and solid geometry and trigonometry. Ability to apply concepts such as fractions, percentages, ratios, and proportions to practical solutions. Ability to apply advanced mathematical concepts such as exponents, logarithms, quadratic equations and permutations. Ability to comprehend and apply principles of calculus, modern algebra and statistical theory.

CERTIFICATES, LICENSES, REGISTRATIONS

Valid Driver's License and Valid Passport.

REASONING ABILITY

Ability to define problems, collect data, establish facts, and draw valid conclusions. Ability to apply principles of logical or scientific thinking to a wide range of intellectual and practical problems. Ability to interpret an extensive variety of technical instructions in mathematical or diagram form and deal with several abstract and concrete variables.

COMPUTER SKILLS

Basic knowledge of Microsoft Office, Creo, Windchill and AutoCAD.

PHYSICAL DEMANDS

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to talk and hear. The employee frequently is required to stand; walk; and use hands to touch, handle, or feel. The employee is required to sit; reach with hands and arms; and stoop, kneel, or crouch. The employee must frequently move up to 25 pounds and occasionally move up to 50 pounds. Common sense should be used, if the item is more than can lift comfortably get help and/or use a forklift or hoist. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and ability to adjust focus.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is occasionally exposed to moving mechanical parts, fumes or airborne particles, toxic or caustic chemicals, extreme heat, and risk of electrical shock. The noise level in the work environment is usually moderate. The employee may occasionally be subjected to loud work environments.

Employee Signature: _____

Date: _____