



## **Piping/Mechanical Staff Designer**

### **General Description**

Prepares initial rough product designs and represents those designs in working documents using computer aided design (CAD) software with a heavy emphasis on 3-D capabilities. This position is in the Mechanical Engineering group and reports directly to the group working supervisor or Discipline Manager. Requires minimal instruction from supervisor, uses pre-established guidelines and experience to perform the functions of the job. Wide range of creativity expected. Plans, assigns, reviews and checks work of other designers and drafters. May be assigned as working supervisor for entire drafting and design staff within the discipline group.

### **Duties & Responsibilities**

- Plans, organizes and supervises design drafting activities for a specific discipline
- Apply standard theoretical and broad practical knowledge in a particular functional area to develop difficult designs involving original concepts and modifications of accepted standards.
- Functions as a working supervisor providing guidance, training and direction to all design and drafting staff within a particular discipline.
- Functions as a lead designer when requirements dictate.
- Works under general direction of the Discipline Manager

### **Minimum Qualifications**

- Associates degree or a two-year college or technical school training in Computer Aided Design and Computer Drafting
- Ten to fifteen years of work experience in Computer Drafting, or, equivalent combination of education and experience
- Requires a high level of technical ability in the appropriate engineering discipline and interpersonal skills
- Requires a thorough working knowledge of basic AutoCad applications (and/or Microstation) and understanding of the capabilities/limitations of the equipment relating to the efficient production of engineering documents
- Requires continuing education concerning updates of drafting software and new software applications
- Ability to read and comprehend piping drawings.
- Knowledge of appropriate use of pipe fittings and materials in industrial applications.
- Ability to identify pipe components and symbols required to create piping drawings.
- Working knowledge of CADWorx and its applications.
- Excellent understanding of 3 dimensional modeling.
- Ability to identify piping system mistakes and inconsistencies on drawings.
- Working knowledge of pipe specifications and their applications.
- Ability to collect and compile data from every discipline to create layouts and detailed piping design.
- Ability to create an efficient layout for entire projects with assistance of discipline manager.
- Understanding of process requirements for a wide range of industry systems.
- Utilization of skills and experience to create cost effective designs and solutions to piping systems.
- Understanding of real world fabrication and fitting practices.



## Position Description

- Minimum 5 years collective field experience with piping and mechanical construction projects.
- Possess leadership skills required to over see the design and the man power required for multiple projects.
- Experience in a wide variety of industrial projects acting as lead designer.
- Communication skills to effectively interact with clients and contractors.

### **Preferred Qualifications**

- College or high school courses in Engineering Math, Physics and Technical Writing
- Consulting engineering work experience (Piping, Mechanical)
- Heavy industrial experience in three or more commercial industries.

### **Classification**

Exempt

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