



Piping/Mechanical Senior Designer

General Description

Prepares detailed product designs and represents those designs in working documents using computer aided design (CAD) software with a heavy emphasis in 3-D capabilities. This position is in the Mechanical Engineering group and reports to a Staff or Senior Staff Piping/Mechanical Designer and/or directly to the Discipline Manager. Requires minimal instruction from supervisor, uses pre-established guidelines to perform the functions of the job. Wide range of creativity expected. Plans, assigns, reviews and checks work of other designers and drafters.

Duties & Responsibilities

- Apply standard theoretical and broad practical knowledge in a particular functional area to develop difficult designs involving original conceptions and modifications of accepted standards.
- Functions as group leader of lower level drafters and designers.
- Frequently functions as working leader, lead designer or supervisor providing guidance and direction to a group of drafters and designers.
- 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
- Nine to twelve 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 3 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.

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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