



Piping/Mechanical Designer 2

General Description

Prepares initial rough 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. Requires minimal instruction from supervisor, uses pre-established guidelines to perform the functions of the job. Wide range of creativity expected. Reviews and checks work of other designers and drafters. This position has no supervisory responsibilities.

Duties & Responsibilities

- Apply standard theoretical and practical knowledge to develop functional designs and create working solutions in a cost effective manor for the client with direction and guidance from the discipline group.
- 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
- Six to eight years of work experience in Computer Drafting, or, equivalent combination of education and experience
- Moderate level of technical ability in the appropriate engineering discipline
- 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 of portions of a project with the guidance of the group.
- Understanding of process requirements for a wide range of industry systems.

Preferred Qualifications

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

Classification

Non-Exempt

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