

Senior Plumbing Engineer

March 23, 2018

The Senior Plumbing Engineer position is typically for significantly experienced engineers. The objective is to perform more diverse engineering/design functions, utilizing knowledge and abilities in the application of engineering/design procedures, techniques, and criteria. Exercise of judgment is required on details of design and in making selections and adaptations of engineering alternatives. This position is provided supervision, continuous improvement and training through co-design.

Responsibilities: Include designing building plumbing systems for commercial, retail, hospitality, industrial, institutional, and food service industries. Assessment of existing or new project conditions is required, and shall be capable of multiple design solutions and applying this information in the design. Communication with Clients and Project Managers for coordination of design criteria is required. Specific tasks are as follows:

- A person of this level is responsible for performing in a pre-quality control overseer or troubleshooter capacity through collaboration and co-design.
- Analyze and design plumbing systems.
- Select plumbing fixtures.
- Perform complicated calculations using ASPE methods and recognized software suites.
- Project profile includes large project schematic design, design development, construction documents, and construction administration management.
 - Selecting plumbing systems and sizing.
 - Specification writing or editing.
- Communicate with outside consultants, and authority-having-jurisdiction regarding code issues.
- Along with the Project Manager and other members of the design team, communicate directly with the owner or client regarding plumbing design issues.
- In depth knowledge of energy code and LEED requirements.
- In depth knowledge of plumbing codes and fire codes as they apply to large commercial and institutional projects.
- Work independently, and mentor personnel through co-design.
- Provide engineer's cost estimation.
- Perform construction administration services including "Punch Lists".
- Perform plumbing system studies and life cycle cost analyses.
- Attend client meetings when requested by Project Manager.
- Participate in Premieres, retrospectives and continuous improvement activities.

Required Skills:

- At least 7 years plumbing design experience utilizing AutoCAD to produce plumbing construction documents for a consulting engineering firm.
- Shall have strong communication skills.
- Should possess a strong knowledge of all Plumbing Codes and have the ability to interpret and apply them towards design.
- A thorough knowledge of building structures, mechanical, electrical and plumbing systems and how they interact.
- May be required to manage others.
- With few exceptions, must be able to design Plumbing systems for most project types. Increasing salary levels can be achieved with increasing design complexity knowledge, e.g. high-rise buildings, hotels, hospitals, laboratory facilities, and the like.



Senior Plumbing Engineer cont.

March 23, 2018

Education Requirements:

This level requires a BSME, BSArchE, advanced degree or equivalent experience, and be a PE.

Location:

Kansas City, Missouri