



Date: 2023-07-04

## Senior Mechanical Engineer / Designer

### Job Description

The Senior Mechanical Engineer / Designer is responsible for the delivery of projects that involve mechanical systems for residential, commercial, industrial, and institutional buildings including, but not limited to, conceptualization, design, development, services during construction, and quality assurance. Working together with the management team, fellow engineers / designers, and drafters, the senior mechanical engineer will be responsible for all technical aspects of project design and delivery for systems including HVAC, plumbing, and fire protection.

As a senior mechanical engineer / designer, it is expected that you can work with little to no supervision in evaluating project requirements, collaborating with multi-disciplinary design teams, designing the required systems and solutions, as well as overseeing the delivery throughout construction.

You'll be responsible for mechanical engineering projects of various sizes and complexities and ensuring the projects are managed successfully in terms of design and staff and that they are completed on schedule (dates agreed) and budgeted (hours planned) to meet client expectations.

### Main Job Tasks and Responsibilities

1. Taking design projects from start to finish and applying a high level of technical, professional engineering and consulting expertise.
2. Evaluating project requirements, creating mechanical designs by creating drawings, schematics, specification reports and proposals for commercial facilities, and residential buildings to support construction projects.
3. Performing engineering activities, under the supervision of the senior mechanical engineer / designer, such as calculations, code research, equipment and building systems research, laying out components and calculation of building program and building areas for systems including HVAC, plumbing, and fire protection.

4. Evaluate site conditions, including zoning requirements and site constraints and perform site surveys and field reviews to accurately document existing and new construction conditions.
5. Review project products, services, and shop drawings to ensure adherence to project documents, relevant jurisdictional codes, and corporate quality controls while synthesizing, interpreting, and coordinating technical information to write engineering specifications for project documentation.
6. Overseeing construction contract administration (shop drawings, RFIs, CCNs, monthly draws, etc).
7. Performing site visits to evaluate the work constructed against the design.
8. Collaborating with multi-disciplinary teams both internal and external to ensure fully coordinated designs.
9. Providing management with updates on progress.
10. Peer review designers and drafters work according to the design process check list.

#### **Required qualifications**

1. Bachelor's degree in Mechanical Engineering from an accredited institution or proof of equivalent.
2. 7 to 10 years of experience in an MEP Engineering company.
3. Technical proficiency with applicable design methodologies, codes, and standards.
4. Must have an excellent communication skill to effectively coordinate with Electrical, Structural and Architectural disciplines.
5. Thrive in an integrated team and collaborative environment is a key to success.
6. Must have excellent organizational and interpersonal skills.
7. P. Eng designation (preferred).
8. Proficiency with AutoCAD, Microsoft Office, and MEP Revit. (preferred).