



## Job Description

### POSITION SPECIFICS

<b>Job Title:</b>	<b>Senior Mechanical Engineer</b>
<b>Department:</b>	<b>Engineering</b>
<b>Reports To:</b>	<b>Engineering Manager</b>

### ROLE

**Summary:** The Senior Mechanical Engineer will lead a small team of mechanical engineers and drafters to design plumbing and HVAC systems for commercial buildings. Candidate will interface directly with clients and design/construction team members.

**Essential Duties and Responsibilities** include the following. Other duties may be assigned.

- Works closely with project consultants and interface with internal project team members.
- Support the development and implementation of standard engineering department calculations, processes, and procedures
- Provide mentorship to current engineers and designers
- Provide engineering support for Sales, Estimating, and Project Managers
- Performs field surveys.
- Prepares and reviews drawings and calculations for plumbing, piping, and HVAC systems.
- Prepares and reviews load calculations (Using Carrier HAP).
- Review equipment submittals, specs, and sequence of operations.
- Review shop drawings.
- Equipment and component selection for plumbing, piping, and HVAC systems.
- Participate in value engineering exercises
- Work internally with construction team to solve constructability issues
- Coordinate with operations staff to standardize equipment and ensure quality control
- Develop positive relationships with customers, subcontractors, vendors, and fellow employees
- Coordinate with engineering manager to prioritize department training needs
- Work with administrative staff to complete permit documentation
- Work with city and state review officials to provide approved design documents

#### Supervisory Responsibilities

This position may supervise others including Mechanical Drafters on an ongoing or project basis.

### QUALIFICATIONS

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

- Commitment to supporting aggressive project deadlines.
- Strong technical understanding of engineering principles
- Works well with internal and external team members
- Detail oriented
- Positive attitude
- Strong communication skills

#### Education/Experience

Bachelors of Science Degree in Mechanical Engineering from a four year college or university, plus minimum of ten years related experience in construction industry or applicable experience in similar field.

- HVAC, plumbing, hydronic piping and natural gas design experience is required
- Medical gases, laboratory gases, green system designs (such as solar hot water, composting toilets, rainwater harvesting, etc.), clean room/laboratory design experience is preferred.
- Understanding of Uniform Plumbing Code, International Mechanical Code, Seattle & Washington State Energy Code, and other building life safety codes

#### Computer Skills

Proficiency with Microsoft Word, Excel, and Outlook required. Current versions of AutoCAD and Revit MEP proficiency; Bluebeam

#### Preferred Certificates and Licenses

- Washington State registered professional engineer
- LEED accredited
- ASHRAE or ASPE membership

### **WORKING CONDITIONS**

#### **Work Environment:**

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job.

This position is in a standard office environment with desktop business equipment and frequent telephone calls. Noise level is moderate.

#### **Physical Demands:**

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to sit for long periods of time. The employee must constantly reach with hands and fingers. Employee must be able to work in close contact with small and large groups. Frequent hearing and talking is required. Extensive use of a computer is required.