

JOB DESCRIPTION – MECHANICAL DESIGNER 2



SYSTEMS WEST ENGINEERS, INC.

POSITION: Mechanical HVAC Designer – Level 2

DEPARTMENT: Mechanical

REPORTS TO: Mechanical Department Head

SUMMARY: HVAC and plumbing system design and document production.

JOB RESPONSIBILITIES:

A. Mechanical Design

- Perform study and design work for projects that may include existing facility evaluations, feasibility studies, design, cost estimating, and similar functions.
- Field survey to identify site conditions.
- Code review and compliance.
- Engineering calculations including HVAC load calculations, pipe and ductwork sizing, and equipment capacity.
- Equipment selection.
- Equipment, ductwork, and piping layout.
- Prepare construction documents suitable for bid.
- Coordination with design work of other disciplines.

QUALIFICATIONS:

A. Education, Experience, and Registration

- Prefer a minimum of an Associates' degree in HVAC design, science, energy analysis, mathematics or other technically related field.

B. Skills

- Highly proficient with AutoCAD as it pertains to the preparation of HVAC and plumbing drawings. Revit experience highly desirable.
- Competent in use of Microsoft Office Suite.
- Able to layout ductwork and/or plumbing systems.
- Able to calculate flows and pressure drops for air and/or water systems.
- Familiarity with Trace Loads Program desirable.
- Able to work as part of a design team in a collaborative environment.
- Demonstrated ability to learn quickly and adhere to new standards and technical requirements.
- Demonstrated ability to handle and prioritize multiple projects.
- Effective written and oral communications skills desirable.

C. Knowledge

- Expected to have a basic understanding of mechanical or plumbing systems.
- Familiar with construction document organization and preparation.

D. Personal Attributes

- Willingness & ability to learn
- Honest and trustworthy

- Sound work ethic
- Respectful
- Possess cultural awareness and sensitivity
- Maintain confidentiality in performing duties

WORK CONDITIONS:

A. Job Requirements

- Job will generally be performed in an office environment, but may require travel to a Client's office, facility or construction job site.
- Overtime may be necessary according to workload. This may include weekdays, weekends and/or holidays.
- Normal working hours will be 8:00 a.m. – 5:00 p.m., but may vary depending on project demands.

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