

Senior Mechanical Engineer

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Company: SPEC Process Engineering & Construction

Location: Tewksbury

Category: construction-and-extraction

This Position is in Tewksbury, MA - No Recruiters Please

A leading process engineering firm with a long history of executing customized design/build projects is seeking a Senior Mechanical Engineer PE (**a PE Stamp is required**) with a strong background in industrial HVAC and Plumbing. The successful candidate will have the knowledge and experience to work closely with the in-house engineering team to support the design and construction of complex process-facility projects. Projects include new design and construction of manufacturing plants and facilities, and rehabilitation of existing plants/facilities and other high-hazard environments. The Senior Mechanical Engineer PE will maintain ownership over completing activities to develop the scope of the project and support the execution by coordinating with clients, internal engineering team, internal resources, external vendors, contractors and other critical personnel. This is a great opportunity to work closely with a team of talented, high caliber engineers.

Ideal candidate will possess:

HVAC

5+ years of HVAC experience for various projects. Hazardous industrial experience preferred. Experience includes:

Supply and Exhaust

(Airflow calculations to size and specify equipment)

Heating and Cooling

(Thermal rejection analysis to size and specify equipment)

Humidification/Dehumidification

HVAC controls (both variable and constant)

Offices, Labs, Cleanrooms, Warehouses, Open Production Bays, etc.

Must have experience creating:

Airflow diagrams

Pressure Profile Layouts

Supply and Exhaust Duct Layouts

Piping Layouts for heating/cooling/condensate

Equipment schedules

Specifications

Control Diagrams

Sequence of Operations

Basis of Design Reports

Position will be responsible (either directly or through subordinates) creating different levels of design packages including: (PE stamp required.)

Schematic Design (concept sketches)

Preliminary Design (pricing drawings)

Detailed Design (permit drawings)

Construction Drawings

As-built Drawings

Plumbing

Minimum of Plumbing experience for various projects. Hazardous industrial experience preferred. Experience includes:

Supply Water (Potable and Non-Potable)

Waste and Sewer

Roof drainage

Tepid water for emergency use (eye wash/shower)

Lab waste neutralization

Natural gas piping

Hot/cold Water piping layout

Sump Pump

Offices, Labs, Cleanrooms, Warehouses, Open Production Bays, etc.

Must have experience creating:

Overall piping schematic diagrams

Hot/Cold Water piping drawings

Potable/Non-Potable piping drawings

Natural Gas piping drawings

Equipment schedules

Specifications

Control Diagrams

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Construction Drawings

As-built Drawings

The Sr. Mechanical Engineer PE will work to develop the scope of capital projects and initiate their execution. Having knowledge with and ability to perform the following is desired:

Working independently and supporting the chemical process engineering effort for projects.

Development of piping and insulation material specifications

Mechanical support and specifications for custom designed process equipment such as pressure vessels, heat exchangers, pumps etc.

Equipment and piping layout and/or support design

Field/shop inspections and construction support

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