

Position title	Department	Reports to
Professional Engineer - Mechanical	Building Systems	PE In Charge of the MEP/Building Systems Group
Employment status	FLSA status	Salary Range
<input type="checkbox"/> Temporary <input type="checkbox"/> Full-time <input type="checkbox"/> Part-time <input checked="" type="checkbox"/> Permanent <input checked="" type="checkbox"/> Full-time <input type="checkbox"/> Part-time	<input type="checkbox"/> Nonexempt <input checked="" type="checkbox"/> Exempt	\$76,950 - \$120,750

## Position Summary

MEP Group Team member, providing design assistance to MEP group and other disciplines relating to building systems, water/wastewater treatment systems, mechanical, and/or plumbing system designs.

## Essential Duties and Responsibilities

The essential functions include, but are not limited to the following:

- Design of Water Systems - System modeling, filter systems, well systems, storage tanks, booster pumps, etc.
- Wastewater Systems - Preliminary, primary, secondary treatment, solids handling, pumping stations, etc.
- Heating Systems - Hydronic and steam piping, piping insulation, boilers, pumps, appurtenances, controls, etc.
- Plumbing Systems - Sanitary piping, domestic hot and cold water piping, hot water generation, piping insulation, pump systems, fuel and gas systems, laboratory piping, etc.
- Ventilation Systems - Air delivery, fan systems, air handlers, process systems, specialized exhaust systems,
- Air Conditioning Systems - Direct expansion, chilled water, refrigerant systems, chillers, pumps, controls, etc.
- HVAC System Controls – Development/design of control sequences of operation, schematic control drawings, and understanding of building automation controls.
- Perform code research, expand knowledge of codes and standards
- System layout and coordination
- Sizing and selection, spreadsheet development
- Basic estimating
- Specification writing
- Preparation of reports
- Understanding of development of Basis of Design
- Understanding of relevant codes and standards
- Code research
- CADD drafting of mechanical and plumbing systems
- Assistance with proposal development, including hourly estimates

- Mentoring of new staff, including some staff training.
- Field/site visits during construction to review installed work and verify design intent.

### **Supervisory Requirements**

- Some supervisory responsibility may be required

### **Minimum Qualifications (Knowledge, Skills, and Abilities)**

- BS in Mechanical Engineering from an ABET-accredited program
- Prior work experience using AutoCAD and/or Revit
- Professional Engineering License is required (with the ability to obtain a NY & VT license within 2 yrs.)
- Two years of related experience.

### **Physical Demands and Work Environment**

- Prolonged periods sitting at a desk and working on a computer.
- Must be able to lift up to 15 pounds at times.
- Must be able to travel to various project sites.
- Must be able to access and navigate job sites and construction areas.

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

### **Note**

This job description in no way states or implies that these are the only duties to be performed by the employee(s) of this position. Employees will be required to follow any other job-related instructions and to perform any other job-related duties requested by any person authorized to give instructions or assignments. All duties and responsibilities are essential functions and requirements and are subject to possible modification to reasonably accommodate individuals with disabilities. To perform this job successfully, the employee(s) will possess the skills, aptitudes, and abilities to perform each duty proficiently. Some requirements may exclude individuals who pose a direct threat or significant risk to the health or safety of themselves or others. The requirements listed in this document are the minimum levels of knowledge, skills, or abilities. This document does not create an employment contract, implied or otherwise, other than an at-will relationship.

**AES Northeast is an equal opportunity employer, drug-free workplace, and complies with ADA regulations as applicable.**