

Position title	Department	Reports to
Professional Engineer - Electrical	Building Systems	Nathan Bull, PE, Director of Building Systems Division
Employment status	FLSA status	Salary Range
<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 electrical system designs for commercial, industrial, institutional, and municipal (water/wastewater) projects.

This title may also be classified by AES Northeast as one of the following, depending on level of certifications and experience:

- Professional Engineer I
- Professional Engineer II
- Professional Engineer III

Essential Duties and Responsibilities

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

Power Systems (focused on low and medium voltage) – Electrical power distribution, equipment selection, facility load evaluations, circuit analysis and calculations, raceway/pathway designs, grounding systems, emergency/standby power system design.

Lighting Systems – Light fixture selection, photometric modeling, emergency/exit lighting systems, lighting controls, and relevant energy code requirements.

Special Systems – Fire alarm design, data/communication horizontal/backbone design (including pathways), life safety systems, etc.

Control Systems – Knowledge and understanding of building automation and SCADA system controls for HVAC and Water/Wastewater systems.

Codes and Standards – Thorough understanding of National Electric Code, Energy Code, relevant NFPA chapters, IEEE, and others relating to electrical engineering for buildings and building systems.

Summary of Job Duties:

- System layout and coordination
- Sizing and selection, spreadsheet development

- Preparation and review of electrical system calculations
- Specification writing
- Understanding of relevant codes and standards
- Code research
- Construction document development (using Revit)
- Field/site visits during construction to review installed work and verify design intent.
- Construction period support – submittal review, jobsite visits, technical support, etc. during construction phase of projects.
- Preparation of engineering reports
- Assistance with proposal development, including hourly estimates
- Training/mentoring of staff
- Project Management

The above list contains basic duties required of this position. This list may not include all of the duties required of this position. This list may be updated from time to time

Supervisory Requirements

- Some supervisory responsibility may be required

Minimum Qualifications (Knowledge, Skills, and Abilities)

- BS in Electrical 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.
- Ability to perform engineering related field work

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.