



---

**Position:** Combined Heat & Power (CHP) Electrical Engineer

Start date: Immediate

**Unison Energy Overview:**

Unison Energy installs, owns, and operates distributed generation equipment for clients primarily in the Mid-Atlantic, Northeast and California. Unison implements packaged Combined Heat and Power (“CHP”) systems based on natural gas engines. Clients include hotels, industrial facilities, supermarkets, hospitals and other healthcare facilities, refrigerated distribution centers, and data centers. Typical system sizes are from 300kW to 10 MW.

Unison, founded in 2010, is backed by American Infrastructure Funds ([www.aimlp.com](http://www.aimlp.com)) and Hunt Companies ([www.huntcompanies.com](http://www.huntcompanies.com)). Our HQ is in Mamaroneck, NY. Unison’s objective is to have 300 CHP systems operating in our core geographies within the next 5 years.

**Description of the position:**

The Combined Heat & Power (CHP) Electrical Engineer reports to the Director of Applications Engineering at Unison Energy. Working closely with the project managers and consulting engineers, the electrical engineer will contribute to delivering a world class CHP system installed in the highest quality manner and ensuring a cost effective site installation.

Individual must be detail oriented and have the ability to multi-task. The CHP electrical engineer will be responsible for ensuring site specific installation drawings reflect project development proposals, value engineering opportunities, and adherence to the NEC and other applicable codes and standards. Additionally, the electrical site design engineer will be required to interact with electric utility companies, contractors, and customers where communication accuracy is critical.

**Responsibilities:**

- **Design Management:**
  - Review electrical design of CHP projects for compliance with design intent, utility interconnection requirements and codes & standards.
  - Review specifications of major equipment (Generators, Transformers, Switchgear, Protective Relays, etc.)
  - Evaluate designs for cost savings opportunities.
- **Project Administration:**
  - Lead all electrical technical and regulatory application processes and participate in reviews with all governing agencies for code compliance in relation to laws, and regulations, codes, and ordinances.
  - Prepare and submit electrical interconnection applications to local utility companies.

- Participate and lead discipline meetings and design reviews with engineers of record, vendors, and project management staff.
- Adhere to schedule requirements for all phases of project development within the engineering discipline as well as project management and operations.
- Personally, conduct or delegate job-site inspections to ensure projects are adhering to specifications and design intent.
- Develop witness test procedures and site-specific sequences of operations.
- Assist with commissioning to verify correct system operation.
- Establish design standards and procedures to manage the work of engineers of record.
- Provide oversight and assistance with writing and editing of program documents, specifications, and equipment selection for all electrical design, installation, commissioning, control, and monitoring functions.
- **Business Development:**
  - Create conceptual electrical single line diagrams for client proposals
  - Evaluate potential customer sites for technical feasibility and cost effectiveness of installation.
  - Attend customer meetings as needed to support sales discussions regarding technical topics with customer engineers.
- Support Director of Applications Engineering for any technical questions or system troubleshooting.
- Attend regional and national seminars, and conventions to improve or develop new engineering methods to improve efficiency, technique, and quality.
- This position reports directly to the Director of Applications Engineering and will work closely with Project Management and the Director of Operations on a day-to-day basis.

**Qualifications:**

- B.S. in Electrical Engineering (M.S. preferred)
- 7+ Years of electrical engineering experience; energy sector, combined heat and power or utility applications preferred
- Professional Engineering Certificate preferred
- Ability to read construction drawings
- Expert knowledge of:
  - Distributed generation
  - Synchronous generators
  - Low and medium voltage electrical distribution equipment
  - NFPA 70 (NEC), UL1741, IEEE1547
- Utility interconnection processes in target markets (NY, NJ, MD, CA, CT, MA)
- Participate in an atmosphere of teamwork and individual accountability within the company.

Travel may be required (up to 25%)