



Position: Microgrid Project Engineer

Start date: Immediate

Unison Energy Overview:

Unison Energy owns and operates on-site microgrid solutions that provide our clients with significant cost savings, energy resiliency, and reduced carbon footprints in a turnkey solution. We design, build, own, operate, and maintain the on-site generation system through long-term energy service agreements that require no capital investment from our clients. We bill our clients only for energy provided to their facility.

Unison implements microgrid systems employing multiple distributed energy resources including Combined Heat and Power (“CHP”) based on natural gas engines/turbines, solar photovoltaic and battery energy storage. During utility outages, our microgrids enter island mode and power up to 100% of the facility’s load. Our clients include hotel/convention centers, data centers, industrial, food manufacturing and distribution, healthcare, higher education, and package distribution facilities. Typical system sizes are from 500kW to 20 MW. Unison’s objective is to have 300 microgrids operating in our core geographies within the next 5 years.

Unison, founded in 2010, is backed by American Infrastructure Funds (www.aimlp.com) and Hunt Companies (www.huntcompanies.com). Our HQ is in Greenwich, CT.

Description of the position:

As a member of Unison’s Engineering, Procurement and Construction (EPC) team, the Project Engineer will work closely with internal project managers and consulting engineers to deliver world class microgrids in a high quality, cost effective manner. Qualified candidates must be detail oriented and able to multi-task. The Project Engineer will be responsible for managing the design of multiple microgrid projects from contract execution to commercial operation. Additionally, the Project Engineer will be required to interact with local utility companies, contractors, and customers where communication accuracy is critical.

This is a full-time role that begins immediately. The position will primarily be responsible for projects in the Western U.S. and remote work from home based in California is preferred. Alternatively, they can be based out of Unison’s main office in Greenwich, CT or remotely located in another target market (e.g., Texas, Maryland). Regular travel to project sites (30-40%) as well as daily attendance on internal and external virtual meetings is expected. Our team is smart, ambitious, and passionate, and the working environment is energetic and fun. We work well together under regular, tight deadlines. This is a high growth company in an industry that is undergoing tremendous change. This position reports directly to the



Vice President, Engineering and will work closely with the EPC and O&M organizations on a day-to-day basis.

Responsibilities:

• **Design Management:**

- Coordinate the work of consulting engineers of record (Civil, Structural, Architectural & Mechanical, Electrical and Plumbing) to create microgrid construction documents.
- Review microgrid designs for compliance with design intent, utility interconnection requirements and codes & standards.
- Generate and/or review specifications and submittals for major equipment, including:
 - Mechanical
 - Reciprocating and gas turbine engines
 - Heat recovery steam generators
 - Steam & Hydronic Boilers
 - Absorption Chillers
 - Cooling Towers
 - Heat Exchangers
 - Electrical
 - Synchronous Generators
 - Solar Photovoltaic (PV)
 - Battery Energy Storage Systems (BESS)
 - Transformers
 - Switchgear
 - Protective Relays
- Evaluate designs for cost savings opportunities.

• **Project Administration:**

- Lead and/or participate in all technical and regulatory application processes, including:
 - Natural Gas Service Application
 - Electrical Utility Interconnection
 - Environmental Permitting
- 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 site-specific sequences of operations and methods of procedure for facility interconnections.



- Create system commissioning test plans and reports.
- Assist with commissioning to verify correct system operation.
- Establish design standards and procedures to manage the work of engineers of record.
- **Operations & Maintenance:**
 - Support O&M team with any technical questions or system troubleshooting on projects in commercial operation.
 - Provide project engineering for improvements to commercially operating sites.
- **Business Development:**
 - Create conceptual site drawings 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.

Qualifications:

- Bachelor's Degree in Electrical or Mechanical Engineering is required. Master's Degree or other advanced education is preferred.
- 7+ years minimum experience with experience in the energy sector.
- Combined heat and power, solar photovoltaic, battery energy storage or other microgrid/distributed generation experience preferred.
- Professional Engineering Certificate preferred
- Ability to read and understand construction documents of various disciplines is required.
- AutoCAD experience is a plus.
- Ability to communicate clearly with diplomacy and tact.
- Participate in an atmosphere of teamwork and individual accountability within the company.
- Knowledge of building codes and national electric code as they pertain to distributed generation.
- The following certifications are relevant:
 - Association of Engineers (AEE):
 - Certified Energy Manager (CEM)
 - Certified Building Commissioning Professional (CBCP)
 - Distributed Generation Professional (DGCP)
 - USGBC:
 - LEED Green Associate
 - LEED AP Building Design + Construction (LEED AP BD+C)