

Critical Environment Energy Engineer Position Description Format

Position Title: Energy Engineer
Position Level: Full Time, Employee
Reports to: Facility Operations Director
Department: Energy Services
FLSA Status: Exempt
Supervises: N/A

General Position Summary/Job Scope

The Energy Engineer will be responsible for the identification and technical analysis of energy savings opportunities. The Energy Engineer is also responsible for technical assistance to the client in developing overall projects in a strategic manner.

Essential Functions/Major Responsibilities

- Perform energy cost savings calculations utilizing hand calculations, spreadsheets, and modeling software.
- Perform preliminary and detailed technical energy audits in a wide range of facilities but expertise in auditing Tier I – Tier IV data centers is required. Identify facility improvement measures (FIM's) related to a building's infrastructure including electrical, mechanical, control, water, waste water, envelope, solid waste, irrigation, and lighting systems.
- Determine operational characteristics of a building and identify improvement areas by reviewing sequence of operations interviewing staff, and making observations.
- Provide detailed analysis of utility bill data including benchmarking the data against similar facilities. Benchmarking methods include EnergyStar, DCIE, PUE and other industry standards.
- Work with utility providers to secure rebates for audits and FIM implementation.
- Provide written documentation of FIM's, including accurate scope descriptions, equipment specification, energy savings potential, benefits, and backup data to verify FIM's.
- Support in Commissioning of installed systems
- Collaborate with program managers with regards to specific project tasks to achieve goals and meet deadlines relative to assigned projects.
- Ensure that field logging and measurement of equipment to assess the current performance is performed as required.
- Coordinate facility site visits and communicate with outside vendors as pertains to the identification of FIM's.
- Develop preliminary and final ES proposals, studies, meetings and presentations.
- Oversee the monitoring and on-going performance assurance of ES projects as necessary.
- Perform schematic design for building mechanical systems including drawings and layout, written design narrative, and sizing calculations.

Secondary Functions

- Keep informed on changes within the energy industry and be an active participant in related professional associations.
- Maintain good understanding of pertinent building and energy codes
- Present a professional image at all times.
- Maintain harmonious relations with building owners, contractors, consultants, vendors, and other partners associated with energy services.
- Keep informed on and follow department processes and standards.

Essential Attributes

- Demonstrate good communication skills.
- Demonstrate the ability to multi-task and meet project deadlines
- Excellent technical writing skills
- Team and customer service focused
- Analytical, thorough, and detail oriented

Specific Job Skills

- Proficient with computers and web related technologies.
- MS Excel and MS Word skills.
- Maintain good understanding of pertinent building and energy codes.
- Installing data logging equipment in interpreting results
- Own transportation and valid driver's license is required for meetings and job visits away from the office (mileage is reimbursed).
- Comprehensive understanding of under floor air distribution in raised floor applications
- Chilled water system control optimization
- CRAC Unit control and optimization
- Proficient with critical power infrastructure (UPS Systems, Battery Plants, Static Transfer Switch, Power Distribution Unit, Remote Power Panels, Automatic Transfer Switch, Generators and associated Switchgear)
- Understanding of multiple building automation system platforms

Education and/or Experience:

- Four year M.E. degree or equivalent.
- 5yrs experience in HVAC field or energy related field is preferable.
- Experience in the auditing of data centers (Tier I – Tier IV) and other critical environments preferred.