



Energy Engineer

Job Purpose:

Responsible for the identification, qualification and quantification of energy conservation measures, utility supply opportunities and facility operating savings measures that may be employed as part of a comprehensive energy solutions project.

Primary Job Duties:

- Survey existing HVAC systems to evaluate potential energy conservation measures; identify mechanical system code violations and ventilation upgrades in commercial, institutional and industrial facilities.
- Determine base line energy usage using existing utility data as well as measurement and verification methodologies.
- Identify and develop energy conservation measures at public and private sector facilities.
- Develop and evaluate self-funded energy conservation measures.
- Analyze and identify building automation and control opportunities.
- Estimate system costs and effectively analyze and assess the economic impacts of utility company rate structures and supply side options in a wide variety of customer environments.
- Provide written reports to document findings and recommendations.
- Expert use of simulation software and spreadsheets to accurately represent pre and post retrofit building operation.
- Calculate operations and ancillary savings, generating financial reports supporting performance contracts and delivering all materials in a timely manner to the proposal department.
- Participate in sales presentations, cultivating customer relationships, and identifying new opportunities within customer accounts.
- Design new HVAC systems as part of the energy services upgrades.
- Work closely with the project team during the installation phase.
- Serve as the technical expert during the performance contracting sales process. Provide guidance to the proposal development team.

Knowledge, Skills & Education Qualifications:

- Technical skills and education:
 - Position requires 3-5 years of progressive energy engineering and design experience.

- Prior experience and detailed knowledge of energy services - performance contracting & on-site utilities, measurement & verification, data collection & analysis, utility bill analysis & energy reporting, automatic temperature controls, knowledge of HVAC systems.
 - Demonstrated knowledge of industry automatic temperature control systems, data collection systems and Internet communication platforms, such as; Ethernet, Modbus, BacNet, Tridium, and HTML.
 - Experience in commercial and industrial energy engineering, utility cost analysis, facilities management, life cycle cost analysis, project development and conservation program implementation, required.
 - Proficiency with current technologies (and vendor sources) typically used in performance contract projects, lighting systems, HVAC systems, components, and controls, large central plant equipment; centrifugal chillers, air compressors, packaged boilers, medium voltage electrical equipment, and DDC automatic control systems.
 - Maintains measurement & verification hardware and software systems required for data acquisition and reporting.
 - Demand side energy project experience with large commercial/industrial customers.
 - Professional Engineer (PE) license, highly desired. Certified Energy Manager (CEM), a plus.
- Personal and organizational skills include:
 - Requires a successful track record in maintaining positive customer relationships, demonstrated verbal, written, and computer communication skills along with strong technical presentation skills.
 - Strong organizational skills with proven ability to manage multiple tasks and deadlines.
 - Strong project management, estimating and documenting skills.
 - Excellent communication and presentation ability.

Computer skills:

- Microsoft Office Suite