

Technical Consultant, Energy Electric Utilities

Advanced Energy is a non-profit planning, technical and engineering services firm whose vision is to ensure that energy is clean, affordable, reliable, efficient and safe for all people. We work with electric utilities, state, federal and local governments, manufacturers and a wide variety of public and private partners. We offer program design and implementation, consulting, training, testing and research to provide market-based energy-related solutions for our five markets: residential, commercial and industrial, motors and drives, solar and electric transportation.

Position Overview

This position will provide advanced technical consulting and expertise in the energy field to utilities, builders, federal and state agencies, and other customers. The position will support multiple projects and project teams for the residential market and potentially across the other markets. Our projects focus on developing and delivering programs for utilities that can deliver economic benefit to consumers and increase customer satisfaction and engagement. The ideal candidate will possess:

- Knowledge of the electric utility/energy industries and grid-edge demand side management technologies including but not limited to demand response, distributed generation, energy storage, energy efficiency and electrification
- Understanding and familiarity with platforms and control systems that enable deployment of grid-edge demand side management technologies
- Experience with energy data analysis and/or statistical modeling, conducting and/or applying market and technical potential studies, understanding utility cost avoidance rates, performing or advising on utility program cost effectiveness testing, estimating energy and demand savings, and performing evaluation, measurement and verification (EM&V).
- Familiarity with standard methodologies and algorithms used for savings and modeling for energy and demand measures in residential and commercial buildings

Essential Functions

- Conduct applied research studies to develop, implement and evaluate utility programs and consult with other organizations and experts as needed.
- Perform technical analysis and prepare reports and/or documentation to present concise results to project partners and customers.
- Analyze technology, resource needs and market demand to plan and assess the feasibility of programs.
- Help establish equipment selection and measurement tools and techniques for energy technologies.
- Perform field evaluations, summarize data and recommend solutions for energy technologies.
- Prepare reports and documentation delineating tasks, analysis and design, test results, and recommendations for further action.
- Provide outreach, education and hands-on assistance in deploying new technologies in the field and troubleshoot root cause of problems in the field/lab.

- Acquire data from field/lab instruments and process into useful information.
- Keep up to date with new technologies being deployed locally and/or nationally.
- Assess aspects of the quality of design, construction, and operation for energy technologies according to a defined standard.
- Perform quality assurance/control, recommend solutions, define and interpret the importance of the implementation of corrective measures.
- Work to discover and promote business opportunities with both new and existing clients
- Clarify and evaluate technical aspects of service requests from customers.
- Maintain and develop own technical and professional knowledge through targeted development activities such as attending workshops, reviewing professional publications, establishing personal networks, and participating in professional societies.
- Conduct workshops, field trainings and presentations.
- Provide technical mentoring for other staff.
- Participate on or lead project teams
- Coordinate project tasks, making detailed plans to accomplish objectives and assist with the integration of technical activities while adhering to project scope, timeline and budget.

Requirements

- Bachelor's degree in relevant technical field required and minimum of 7-9 years of technical work experience in the energy field related to job position is required. Combination of education and work experience may be considered in lieu of a degree.
- Must have proficient technical knowledge to support client projects independently.
- Relevant work should include:
 - Program implementation experience for an energy utility provider, or as a program administrator/consultant for a utility program.
 - Experience with technologies for demand response, distributed generation, energy storage, energy efficiency and electrification used in smart homes and buildings
 - Technical analysis described in position summary above
 - Training and/or presentations on technical content
- Intermediate level proficiency using Microsoft Office Products.
- Problem solving and data interpretation skills; strong written and oral communication skills; ability to work in teams as well as independently; organization, time management and attention to detail; ability to plan, manage and deliver projects; ability to develop and adhere to project budget; commitment to excellent customer service; technical writing and research skills.

Physical Demands/Work Conditions

In this role, the person will hold a valid NC driver's license and travel required (approximately 10%-60% of the time to interface with customers). Some positions or projects could require more and occasionally for periods up to a week. The individual may frequently have to ascend and descend a ladder or crawl or kneel in small and contained spaces to perform inspections, collect data and/or detect errors. Must be able to work in industrial environments (plants and labs) or construction sites and follow company and/or customer safety protocols. Must be able to work in excessive hot or cold temperatures for short periods of time. Position could require exposure to the elements and wearing personal protective equipment.

This is an exempt position. There may be occasions where the hours of work may vary, be irregular, and be reasonably required to meet the goals of the organization.

Location: Raleigh, NC

Employment Type: Full-time

Recruitment provided by Capital Associated Industries. To apply:

<https://capital.applicantpool.com/jobs/496061.html>

Advanced Energy is an Equal Opportunity Employer and provides fair and equal employment opportunity to all employees and applicants regardless of race, color, religion, gender, sexual orientation, gender identify, national origin, age, disability, veteran status or any other protected status prohibited under Federal, State or local laws. All employment decisions are based on valid job-related requirements. If you are a qualified individual with a disability or a disabled veteran and are unable or limited in your ability to use or access our website, you may request a reasonable accommodation to express interest in a specific opening. You can request reasonable accommodation by sending an email to pmcdonald@advancedenergy.org.