



Position Title: Energy Services & Technology Analyst

Division: Energy Delivery

Summary Description: The Energy Services & Technology Analyst is on the staff of the Director of Energy Services & Technology within the Energy Delivery Division. This position will collaborate with multi-departmental teams to evaluate, develop, and implement edge-of-grid services and technology through edge-of-grid demonstration pilots and programs. These pilots and programs support NCEMC's Virtual Power Plant (VPP) and provide value to the electric distribution cooperatives (member cooperatives). Edge-of-grid demonstration pilots and programs include demand response (DR) and distributed energy resources (DER), data systems, and services that aggregate and control distributed technology. The position will act as a team participant, technical lead, program owner, and program leader/manager across NCEMC's programmatic efforts.

Academic and Trade Qualifications: A Bachelor of Science degree in engineering, computer science, economics or other analytically intensive equivalent is required (sufficient work experience in the energy arena can supplement a degree of lesser analytical intensity).

Work Experience: A minimum of three years of progressive power/energy industry experience in engineering, operations, planning, SCADA operations or other related field. Additional experience will be considered, and hiring level will be commensurate with education, experience, and responsibility.

Responsibilities:

Program Management

- Develop and maintain a working knowledge of the NCEMC's Distributed Energy Resource Management System (DERMS) including an understanding of the core design and database structure
- Lead the research on new technology that can be implemented at member cooperatives to expand the effectiveness of Conservation Voltage Reduction (CVR)
- Lead the expansion of the Customer Owned Generation (COG) program to include new opportunities that fit within the program design criteria and contractual requirements
- Lead the deployment of the residential battery pilot including vendor and member cooperative relationships. Analyze the program results and lessons learned to develop a recommendation for transitioning the pilot into an edge-of-grid program

Supporting Roles

- Support/lead efforts to integrate all DR and DER technology into the Distributed Energy Resource Management System (DERMS) to include existing and new "Connect to Save" programs
- Support the integration of electric vehicle (EV) chargers into DERMS and the VPP including vendor and member cooperative relationships
- Develop and maintain general information on current and new edge-of-grid technology. Understand industry best practices and ensure their application in implementation of best practices at NCEMC
- Develop a working knowledge and assume maintenance of the Energy Services & Technology SharePoint site and a technology repository for use by Energy Delivery staff
- Support the integration of Program Management initiatives into the DERMS
- Support the integration of Program Management initiatives into the Connect to Save program
- Support the expansion of NC Electric Cooperative EV Charger network through technical guidance on demand reduction use cases and integration into the DERMS
- Coordinate with member cooperatives and internal stakeholders to determine if modifications to existing programs can improve overall performance and/or member satisfaction
- Coordinate and consult with internal stakeholders on a seasonal basis to determine the use and optimization of edge-of-grid resources and implementation strategies
- Develop data and assumptions necessary to determine the cost and physical characteristics of new edge-of-grid technologies
- Support internal business units reporting on COG program utilization

Reporting

- Analyze, update, and develop processes and procedures to report on program performance and effectiveness during events and testing
- Develop and implement data solutions that automate, to the extent possible, reporting functions necessary to provide necessary feedback on the effectiveness of DR programs
- Develop and deliver reports on workplace activities as directed by the Director of Energy Services & Technology

General

- Develop and maintain a working knowledge and understanding of NCEMC's resource portfolio and underlying contracts as well as NCEMC's wholesale rate structure
- Develop and maintain optimal working relationships and coordination between various groups at NCEMC including Power Supply, Innovation & Business Development, IT, Accounting, and Communications
- Monitor the regulatory requirements for establishing new edge-of-grid programs. Assist in collection of data, analysis, and technology investigation in support of these new programs
- Monitor developments and trends in edge-of-grid technology to prepare for implementation at member cooperatives
- Assist with annual work plan and budget preparations
- Periodically report on activities in work area
- Maintain professional development
- Perform other duties as directed by the Director of Energy Services & Technology

Job Knowledge: The candidate should have a good working knowledge of the power/energy industry. Knowledge in the areas of distribution operations, SCADA, distributed generation and metering are desirable. A strong candidate will also have knowledge of various communication technologies, databases, and other applicable information technology software and hardware. Experience leading a project team and project management experience is strongly desired.

Abilities and Skills:

- Analytical mindset with a desire to problem solve
- Experience with Microsoft Office: Word, Excel, and PowerPoint (Access and VBA a plus)
- Able to be responsible for a project from start to finish
- Strong written and oral communications skills with the ability to develop presentations and reports
- Excellent communication and interpersonal skills capable of maintaining strong relationships
- Strong organizational and multi-tasking skills
- Substantive experience of successfully managing and leading diverse teams of creative and support staff

Relationships and Contacts:

Reports to:

- Director of Energy Services & Technology and is accountable to him or her for results achieved
- Directs: None
- Internal Relationships: Shall maintain internal relationships necessary to achieve the purpose of the position and the desired results
- External Relationships: Shall maintain external relationships necessary to achieve the purpose of the position and the desired results

Working Conditions:

Normal office conditions with occasional overtime, travel to member cooperatives, and industry related training and conferences.

Company Profile: NCEMC (<http://ncemcs.com/about/ncemc.htm>) is one of the largest generation and transmission cooperatives in the nation and is the power supplier for most of the state's member cooperatives. NCEMC acquires the power it sells to its member cooperatives in a number of ways, including asset ownership and Purchased Power Agreements.

North Carolina Electric Membership Corporation provides equal employment opportunities (EEO) to all applicants for employment.