

## GRID ADVANCEMENT ENGINEER

Elexicon Energy is the fourth largest municipally owned electricity distributor in Ontario, providing reliable energy services to more than 169,000 customer in the Region of Durham.

We power life's most meaningful moments, creating harmonious connections between experiences, people and the environments where they dwell. Through our safe and reliable services, we illuminate, move, grow, comfort, nourish, and educate, ultimately shaping stronger communities and a better world.

Elexicon Energy was formed when two companies merged in 2019. We are building a vibrant brand and a strong organizational culture based on shared values.

**Reporting to the Vice-President, Technology and Innovation, the successful candidate will be responsible for the daily activities as follows:**

### DUTIES AND RESPONSIBILITIES

- + Actively participate in grid research initiatives and government funded programs.
- + Assist in ensuring the quality of information and analysis that is provided to the organization in the areas of smart grid, and special projects such as microgrid, electrical vehicle infrastructure, distribution management systems, virtual power plant (VPP) platforms, net zero energy technologies, power system communications, smart city initiatives.
- + Support technical evaluation, analysis, and leading the design, deployment and verification of innovative solutions used to better operate Elexicon's grid and prepare the distribution system for future needs.
- + Act as an engineering resource in selecting and implementing distribution automation/smart grid technologies, DERs, electrical vehicle charging infrastructure, energy storage, power system communications for smart grid, etc.
- + Create business/system requirements to support the implementation of Distribution Automation technology solutions such as ADMS, DERMS, MEMS, including integration of various systems.
- + Design and development of specifications and technical requirements and implementation of Grid advancement and Distribution Automation (DA) solutions, proof of concept projects.
- + Complete and review appropriate technical documentation, for example product specifications, product market research, documented analysis, test instruction manuals, etc.
- + Develop and write technical specifications for implementing grid modernization projects, such as preparing Requests for Proposal, government funded applications, and submit research proposals in conjunction with universities and colleges.

- + Define specifications, data, and interfaces necessary to integrate Elexicon grid with third party energy systems, including working with technology vendors to define machine and data interfaces for communication and control of distributed technologies.
- + Develop test strategies and plans for both design validation and project commissioning in accordance with industry standards and customer/project requirements.
- + Employ appropriate tools for project management in order to define and follow-up on projects during development.
- + Use simulation tools to validate project concepts and review product integrity in order to facilitate deployment within the utility grid environment.
- + Investigate and review new concepts, products, and technologies; and evaluate their appropriate use within the utility grid.
- + Provide technical support and/or act as the technical lead on multiple projects from conceptualization to completion; managing tasks, communications, and project stakeholders.
- + Demonstrate strong leadership, presentation, and written and spoken communication skills to build internal and external stakeholder relationships.
- + Monitor, oversee, and be responsible for ensuring that the project job planning and work flow activities follow policies and procedures.
- + Initiate, develop, prepare and present for approval work plans, programs, initiatives, policies and procedures for the department, and make recommendations on other policies and procedures when requested. Maintain a continuous improvement philosophy.
- + Assist in the preparation of project estimates.
- + Participate in a continuous learning manner with respect to new and emerging electric distribution system technologies with positive operations impacts, including all technologies associated with smart grid.
- + Apply principles of mathematics and science to analyze and solve routine technical problems as found in power distribution utilities' industries.
- + Be knowledgeable with and routinely apply policies, procedures, and external standards and requirements including but not limited to those of Ontario Reg. 22/04, IEEE, CSA, ESA, IHSA, and OSHA.
- + Other duties as required may be considered part of these responsibilities.

## **SKILLS & EXPERIENCE**

- + Thorough knowledge of latest developments in distribution system such as smart grid, microgrid, electrical vehicle charging, power system communications, SCADA, ADMS, etc.
- + Experience with distribution system modeling software (CYMEDIST, DESS, etc.) or experience with similar distribution system planning/analysis software.
- + Working knowledge of Cybersecurity concepts.

- + Strong analytical approach, detail-oriented, and creative problem solving techniques.
- + Effective time management and project management skills.
- + Ability to work independently as well as in a team-oriented, high volume, fast-paced environment.

## MINIMUM QUALIFICATION

- + Minimum of eight (8) years of electrical utility experience with direct technical experience with grid modernization, power system communications and protection.
- + Bachelor degree in Electrical Engineering. Postgraduate degree will be an asset.
- + P.Eng. designation or eligible to register as a Professional Engineer in the province of Ontario.
- + Must possess and maintain a valid Ontario Class G driver's licence with a good driving record.

## APPLICATION PROCESS

Interested and qualified applicants are encouraged to submit their resume to:

[hr@elexiconenergy.com](mailto:hr@elexiconenergy.com) by **January 1, 2021**

**Please quote the position title that you are applying for in the subject line of your email.** Applicants please note that accommodations can be provided upon request. Only the candidates who meet the qualifications and experience for the position will be contacted for an interview. We thank you for your interest in Elexicon Energy.