



Senior Electrical Engineer Job Posting

Willis Energy Services is a leader in creating innovative solutions to improve industrial energy efficiency and develop viable self-generation projects for our clients. Our recent growth has resulted in an expansion of operations in Ontario. Currently, we are seeking a **Senior Electrical Engineer**, to assume a key role in Toronto.

The Senior Electrical Engineer is responsible for conducting all aspects of Measurement & Verification (M&V) activities for electrical energy conservation projects in heavy industrial facilities within Ontario.

Specific responsibilities include:

- Review project files to understand the proposed retrofit project that will produce energy savings.
- Prepare a M&V plan that describes the project, documents the methodology to measure the energy savings, schematically illustrate metering points, specify metering and instrumentation requirements, detail the duration and frequency of the metering, explain the selected IPMVP option selected, list assumptions, and propose required adjustments or normalization procedures.
- Supervise the installation of metering and instrumentation.
- Evaluate the energy use baseline before retrofits are undertaken.
- Determine and assess the sufficiency of existing measurement instrumentation before augmenting with additional temporary or permanent devices to measure electrical and process parameters.
- Recommend cost-effective approaches to leverage and integrate process control capabilities within industrial facilities in meeting the M&V requirements of projects.
- Apply statistical techniques in analysing large time series data sets, propose and document steps taken to adjust for missing or incomplete data, and prepare graphical representations to illustrate the results of the analysis.
- Scrutinize proposed M&V plans to ensure comprehensiveness while minimizing impacts to facility operations.
- Ensure absolutely strict adherence to all safety procedures and practices of your team while visiting industrial sites and installing, supporting the installation, or removing power and process metering instrumentation.
- Manage department budgets and report resource time allocations by activities and projects.
- Prepare and/or approve a variety of technical reports or studies to address variances, performance, etc. make recommendations or presentations of data as required.
- Attend industrial site meetings and advises customers and engineering consultants.
- Review and approve baseline data collection methods proposed by engineering consultants; prepare information requests for customers/consultants to address baseline deficiencies.
- Working with the engineering department during technical review of projects, prepare detailed M&V plans that follow IPMVP guidelines and address the rigour and uncertainty requirements of the conservation program.
- Keep project files up to date and reports activity to management on a regular basis.
- Act as a team lead and provides mentoring to more junior staff.
- Regular travel within the GTA is required. Occasional overnight travel to other parts of Ontario is required, which may include remote locations.

The ideal candidate will have:

- Bachelor of Applied Science in Engineering Degree in Electrical Engineering is preferred.
- Professional Engineer licence in Ontario.
- Certified Measurement & Verification Professional designation (CMVP) preferred.

- Minimum 10 years experience in an industrial facility or consulting environment focused on process optimization and measurement of results (in the context of energy improvements is highly desired).
- Knowledge of energy efficiency opportunities and measures in industrial facilities.
- Experience with various types of instrumentation metering equipment and data acquisition.
- Experience in statistical analysis (e.g., regression analysis, CUSUM, energy modelling).
- A breadth of knowledge in all levels of process control systems.
- Process control programming experience a definite asset.
- Proficiency with MS Office, particularly spreadsheet, word processing and presentation software is required.
- Demonstrated initiative and ability to remain organized while handling multiple priorities.
- Strong oral and written communication skills; ability to work well with all levels of management, staff and external contacts.
- Solid analytical and technical skills.
- Experience within an industrial service-based company with an emphasis on growth and customer service.
- Experience in an engineering services company is preferred.

To Apply:

Interested candidates should send their application to careers@willisenergy.com. **Please state Sr. Electrical Engineer in the subject line.** Although we thank all applicants who apply, only those chosen for an interview will be contacted. No phone calls please.