



Senior Mechanical 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 Mechanical Engineer**, to assume a key role in Toronto.

The Senior Mechanical Engineer is responsible for providing technical and financial assessments of capital projects. The assessments will include the review of feasibility studies and project detail design documents to ensure proposed capital projects will generate the anticipated energy and process improvements. You will review engineering drawings, capital cost estimates, and operating parameters of retrofit projects within existing heavy industrial facilities. Through written reports you will provide recommendations towards funding capital projects that improve energy efficiency and process improvements..

Specific responsibilities include:

- Conduct walk-through audits of large industrial facilities to identify energy conservation opportunities, recommend steps to investigate and implement the opportunities, and provide written reports of findings.
- Prepare assessments of Feasibility Study reports completed by third parties to ensure project compliance, technical viability and accuracy.
- Document and quantify the major capital equipment, balance of plant, and other material items required to implement the projects identified in the Feasibility Studies.
- Prepare information requests for clients/consultants to address deficiencies.
- Complete site visits to industrial facilities to evidence pre-project conditions including existing equipment and operating parameters, attend commissioning and acceptance testing, and prepare brief reports on visits.
- Identify and document project change of scope that could alter the projected energy savings or capital costs associated with the project.
- Prepare written reports authorizing progress payments based on the various stages of project construction and capital expenditures.
- Prepare a variety of reports to manage and monitor project progress.
- Comply with all safety orientations and requirements as required by the industrial facility.
- Participate in internal and/or client meetings to present analyses and results.
- Work with internal team and customer personnel to ensure a common understanding of projects and how energy savings and process improvements can be reliably verified and participate in planning measurement and verification activities for the projects.
- Maintain project files and report activity to management on a regular basis.
- Collaboratively work with the multi-disciplinary engineering team to ensure reviews and recommendations are completed to professional standards.
- Act as a team lead and mentor junior staff.
- Regular travel within southwestern Ontario 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 Mechanical Engineering is preferred
- Professional Engineer licence in Ontario or eligible to register.
- Experience in application of electrical energy conservation measures in large industrial systems.

- Minimum 10 years of experience in engineering design of motor-driven mechanical systems within heavy industry such as mining, petroleum refining, cement, forestry, chemicals, or steel manufacturing.
- Five years supervisory experience managing design engineers.
- Strong capability to quickly identify and assess the appropriateness of engineering calculations and design decisions.
- Experience with and ability to provide strategic insight into the production and financial decision-making within an industrial and/or manufacturing setting.
- Familiarity with the operating parameters of various heavy industry and the financial considerations of publically traded companies including capital planning processes.
- Proficiency with MS Office, particularly spreadsheet, word processing, and presentation software is required.
- Strong oral and written communication skills; ability to work well with all levels of management, staff and external contacts.
- Solid analytical, technical skills and ability to succinctly communicate methodology and approach is a must.
- Demonstrated initiative and ability to remain organized while handling multiple priorities.
- Experience within an industrial service based company with an emphasis on growth and customer service.
- Experience in an engineering services company or consulting is preferred.
- Experience and certification in Lean, Six Sigma, or other process improvement methods is an asset.
- Knowledge of energy efficiency opportunities and measures in industrial facilities.

To apply:

Interested candidates should send their application to careers@willisenergy.com ***Please state Sr. Mechanical 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.