



Position Title: Junior Engineer
Reporting To: Director of Technology
Date of Preparation/Revision: November, 2010

Position Summary:

The Junior Engineer, under the supervision and guidance of Senior engineering staff, is responsible for the implementation and ongoing operation of testing and technology development projects in support of WEICan's mandate.

Principle Responsibilities and Accountability:

- Assist senior engineers in the installation, commissioning, maintenance and calibration program of environmental; electrical and process measurement; and data acquisition systems by ensuring project plans are executed as designed.
- Assists field technicians with field work.
- Program data acquisition systems.
- Responsible for document control and test equipment for quality systems. Supply equipment for wind resource studies and specify and order equipment required for site operations.
- Develops and maintains up-to-date site drawings and documentation for turbine test program. Keep records of maintenance schedules, log books and equipment repair.
- Organizes and participates in on-site and off-site wind resource assessment and turbine testing. Ensures commissioning checks are done and documented.
- Performs tests and tracks data to ensure data is in accordance with plans. Reviews test data for quality control and reduce data for detailed analysis.
- Prepares technical reports on assigned projects. Presents technical results at various industry forums.
- Responsible for setting and maintaining high standard of project implementation and maintenance of site systems. Includes development of equipment documentation procedures.
- Assists with monitoring project management, cost tracking, and scheduling of various technical projects.

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- Knows or knowledgeable in software for testing. Assists with the continuous upgrading and maintenance of site information technology and computer and software systems.
 - Organize and participate in safety related training and WEICan safety responsibilities, eg safety committee, as requested.
 - Organize and supervise student work done in conjunction with WEICan, as required.
 - Interface with technical and administrative staff and management to understand project and corporate deliverables to execute work in appropriate and timely manner.
 - Interface with clients on turbine repairs and maintenance and as requested by supervisor.
 - Represents WEICan at various meetings.
 - Performs other duties as required or assigned.

Position Specifications:

Education and Training:

- University degree in Electrical, Mechanical or Wind Energy Engineering.
- Or university degree in Engineering with appropriate experience in electrical/mechanical and instrumentation design and implementation.
- Member of or eligible for membership in, Association of Professional Engineers of Prince Edward Island.

Experience:

- Some experience in high voltage electrical systems, generators and switch gear or mechanical design an asset.
- Some experience in instrumentation, digital control systems, and data acquisition systems an asset.
- Some experience in field construction work, project management and safety techniques an asset.

Skills and Knowledge:

- Knowledge of project management techniques.
- Knowledgeable in CSA and CEC standards.
- Knowledge of CAD software packages, particularly AutoCAD, VISIO, and other design software packages, e.g. SolidWorks, Computational Fluid Dynamics, Power System Modelling.
- Knowledge of industrial control technologies.
- Knowledge of wind power production technologies an asset.
- Knowledge of IEC wind turbine standards an asset.
- Knowledge of computer systems, data communication systems and software, including Microsoft Office.
- Good interpersonal and team building skills.
- Ability to lead project teams, manages multiple projects, balance priorities, and meet deadlines.

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- Ability to work independently.
 - Ability to work with sensitive and confidential information.

Supervisory responsibility:

Limited supervisory responsibility. Will develop with experience.

Communication:

- Good communications skills: interpersonal, listening, oral, written, and presentation.
- Ability to communicate effectively at all levels of an organization.

Working conditions:

- The position involves work in an office environment, however a significant component will involve field work in support of technical projects both at WEICan and remotely. Field work includes climbing wind turbine towers and wind monitoring towers as needed to facilitate the work.
- The position requires intermittent travel. Candidate must be able to hold a passport.
- **THE POSITION REQUIRES FLEXIBLE WORK HOURS.**