



## **Position Summary: Senior Project Engineer**

The Senior Project Engineer (reporting to the Scientific Director) is responsible for leading the development, implementation and ongoing operation of testing and technology development projects in support of WEICan's operations and maintenance activities associated with the Wind R&D Park; research programs related to the Wind R&D Park; research programs related to WEICan's support of the development of wind energy in Canada; and wind turbine testing.

## **Principle Responsibilities and Accountability:**

- Responsible for supporting the operation and troubleshooting of the Wind R&D Park's digital control systems and communication systems, including turbine OEM systems, battery OEM systems, wind park control, and wind park data acquisition systems.
- Responsible for supervising selection, design, installation, commissioning, maintenance, documentation and calibration programs of data acquisition systems.
- Support the operation of WEICan's OSIsoft PI data infrastructure, including commissioning data points, maintaining accuracy of data, and working with the research team to support development of data analysis tools.
- Work with WEICan Operations staff to maintain Wind R&D Park in operation, including providing periodic on call service.
- Assists WEICan management with project management, cost tracking, and scheduling of various technical projects.
- Assists in the preparation of project proposal submissions, including development of proposal estimates of labour and material costs.
- Responsible for maintaining & implementing turbine testing & certification data quality processes in accordance with technical standards applicable to wind turbine testing and certification: IEC 61400 series, CSA, AWEA, etc.
- Develops and maintains up-to-date site drawings and documentation of site layout, test turbines, power distribution and communication systems.
- Remains current with information on technical trends, research, applications, and effective practices related to the wind energy industry.
- Organize and participate in safety related training and WEICan safety responsibilities, e.g. safety committee, as requested
- As required, supervise student work done at WEICan
- Represents WEICan at various meetings.
- Performs other duties as required or assigned.

## **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. A graduate degree is an asset.
- Member of, or eligible for membership in, Association of Professional Engineers of Prince Edward Island.



### **Experience:**

- Significant experience in instrumentation, digital control systems, and data acquisition systems.
- Experience in field construction work, project management and safety techniques.
- Experience in wind energy technologies and wind power production projects an asset.
- Experience with research projects an asset.
- Experience with preparing project reports and delivering presentations & communicating with staff, suppliers and clients.

### **Skills and Knowledge:**

- Knowledge of industrial control and instrumentation technologies.
- Knowledge of wind power production technologies and energy production analysis, including wind farm design and analysis software, particularly WindPRO and Windographer an asset.
- Knowledge of CAD software packages, for example AutoCAD
- Knowledge of project management techniques
- Knowledge of relevant IEC, CSA & CEC standards.
- Knowledge of computer systems, data analysis & data communication systems, including Microsoft Office, OPC servers and OSISoft PI.
- Knowledge of field data acquisition systems, including Campbell Scientific.
- Advanced interpersonal and team building skills.
- Ability to lead project teams, manage multiple projects, balance priorities, and meet deadlines.
- Ability to work collaboratively across a range of officials and experts from government, academic, and industry organizations.
- Ability to work independently.
- Ability to work with sensitive and confidential information.

### **Working conditions:**

- The position primarily involves work in an office environment. Some field work will be involved in support of technical projects both at WEICan and remotely. Field work may include climbing wind turbine towers and wind monitoring towers.
- The position requires intermittent travel. Candidate must be able to hold a passport and must have a Canadian driver's license.
- The position requires flexible work hours including possible on-call work.
- Familiar with life in small, rural communities.

### **To Apply:**

If you are interested in a new challenge and an opportunity to make a significant contribution to WEICan's role in wind energy development, please forward your CV and cover letter by Monday, February 12, 2018 to [careers@weican.ca](mailto:careers@weican.ca). Please reference "Senior Project Engineer" in your subject line.

Visit [www.weican.ca](http://www.weican.ca) for more information about WEICan