



The Wind Energy Institute of Canada is an independent non-profit organization that advances the development of wind energy across Canada through research, testing, innovation, and collaboration.

WIND INTEGRATION ENGINEER

Position Summary:

Reporting to the Scientific Director, the Wind Integration Engineer is responsible for the development, implementation and ongoing operation of testing and technology development projects. The Wind Integration Engineer will also contribute to research projects at the Institute, specifically those related to the wind turbine and storage system installed at the Institute.

The Institute is seeking either a junior or senior level candidate to fill this and/or other positions. Responsibilities will be dependent on the level of the individual hired.

Principle Responsibilities and Accountability:

- Assist in the development of operations and research programs involving the wind park and storage system in accordance with current best practices and industry findings.
- Lead the development of various system test programs. Review data for quality control and reduce data for detailed analysis.
- Develop operational and testing procedures in accordance with technical standards applicable to wind turbine testing. Participate in wind turbine testing leading to certification contracts.
- Collaborate in the writing of academic papers with other researchers and present findings at conferences. Prepare presentations for others within the Institute.
- Assist in the selection, design, installation, commissioning, and maintenance of measurement equipment and data acquisition systems.
- Participate in wind park and battery storage operational troubleshooting.
- Liaise with system operators and utility grid operators.
- Draft equipment documentation procedures, including troubleshooting documentation.
- Remain current with information on technical trends, research, applications, and effective practices related to the wind energy and energy storage industries.
- Meet the institute's safety responsibilities by following and developing safety guidelines and participate in safety-related training.
- Work collaboratively, manage multiple projects, balance priorities, lead project teams, and meet deadlines.
- Draft project proposal submissions.
- Work independently.
- Work with sensitive and confidential information.
- Perform other duties as required or assigned.

Education and Training:

- Graduate degree in Electrical Engineering is preferred. Undergraduate degree in other engineering disciplines, or equivalent degree (e.g. Physics) may also be considered.

Experience/Skills:

- Experience in wind integration and storage systems is desirable.
- Utility grid operator and system operator experience an asset.
- Understanding of the electricity grid is desirable.
- Experience in electrical/mechanical and instrumentation design and implementation is preferred.
- Experience in engineering research is an asset.
- Knowledge of industrial control and storage system technologies is an asset.
- Relevant experience in electrical systems and storage systems is an asset.
- Experience in instrumentation, programming, digital control systems, and data acquisition systems is an asset.
- Experience in project management is an asset.
- Knowledgeable in CSA, CEC, and the IEC wind turbine standards is an asset.
- Knowledge of computer systems, MS Office and CAD software packages.
- Excellent communication skills.
- Familiar with life in small, rural communities.

Working Conditions:

- The position involves work primarily in an office environment at The Institute's North Cape, Prince Edward Island site. Some field work, including climbing wind turbines and wind monitoring towers and work within a substation, will be involved in support of technical projects, both at the Institute and remotely. Candidates must have an ability to climb and work at significant heights.
- The position requires intermittent travel. Candidate must have a Canadian driver's license and the ability to hold a Canadian passport is preferred.
- The position requires flexible work hours, evenings and weekend work will occasionally be required.

Interested candidates are invited to submit a detailed resume and cover letter in confidence by end of day, Friday, March 31, 2017 to:

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Visit www.weican.ca for more information about the Institute