

	<p><b>Position Description</b></p> <p><b>Wind Systems Junior Engineer/Researcher</b></p>
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<b>Position Title:</b>	Wind Systems Junior Engineer/Researcher
<b>Reporting To:</b>	Manager, Engineering and Operations
<b>Date of Preparation/Revision:</b>	June 2019/Rev 0

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**Position Summary:**

Reporting to the Manager, Engineering and Operations, the Wind Systems Junior Engineer/Researcher is responsible for the development, implementation and ongoing operation of testing and technology development projects. The Wind Systems Junior Engineer/Researcher’s primary focus will be operational performance of the Wind R&D Park but will also contribute to research projects in support of the Institute’s mandate.

**Principle Responsibilities and Accountability:**

- Assist in the development and execution of operations and research programs involving the Wind R&D Park and associated technology in accordance with current best practices and industry findings.
- Assist wind turbine technicians with field work including turbine inspections, troubleshooting, scheduled/unscheduled maintenance, met tower, and small turbine work.
- Liaise with contractors, suppliers, system operators, and utility grid operators.
- Prepare equipment documentation procedures, troubleshooting, service, and technical reports and present technical results at various industry forums.
- Responsible for setting and maintaining high standard of project implementation and maintenance of site systems including development of documentation procedures.
- perform project management, cost tracking, and scheduling of various operational projects.
- Develop operational and testing procedures in accordance with technical standards applicable to wind turbine testing. Participate in wind turbine testing leading to certification contracts. Lead the development of various system test programs. Review data for quality control and reduce data for detailed analysis.
- Collaborate in the writing of academic papers with 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.
- Remain current with information on technical trends, research, applications, and effective practices related to the wind energy and energy storage industries.
- Organize and participate in safety related training and the Institute's safety responsibilities.
- Organize and supervise student work done in conjunction with WEICan.
- 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:**

- Undergraduate degree in Electrical Engineering preferred. Other engineering disciplines, or other equivalent degrees (Physics, etc.) also considered.
- Member of or eligible for membership with the Association of Professional Engineers of Prince Edward Island, preferred.

### **Experience/Skills:**

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

### **Working Conditions:**

- The position involves work in both an office/lab environment and outdoor wind turbine environment. Field work includes regularly climbing wind turbine towers and wind monitoring towers, both at the Institute and remotely.
- The position requires intermittent travel. Candidate must be able to hold a passport.
- Candidate must be able to maintain a valid Driver's License.
- The position requires flexible work hours.