

## **JOB DESCRIPTION**

<b>Position:</b>	Project Electrical Engineer (Canada, Nova Scotia, Bedford)
<b>Reporting to:</b>	Principal Naval Architect
<b>Main Duties / Responsibilities:</b>	<ul style="list-style-type: none"> <li>• Manage design and delivery of project-specific electrical balance of plant solutions for integration with grid, and/or delivery of electricity produced by tidal energy systems to the end customer.</li> <li>• Liaise with key Canadian electrical suppliers and project stake holders (e.g. grid operator/customer and regulatory bodies).</li> <li>• Oversee installation and commissioning of electrical systems, offshore &amp; onshore</li> <li>• Provide technical in-field support</li> </ul>
<b>Key Working Relationships:</b>	<ul style="list-style-type: none"> <li>• Principal Naval Architect</li> <li>• Lead Electrical Engineer (Scotland)</li> <li>• Lead Engineer, Electrical and Control (Germany)</li> </ul>
<b>Qualifications:</b>	<ul style="list-style-type: none"> <li>• Certified Engineer in electrical engineering or in automation</li> <li>• Bachelor or Masters in Electrical Engineering or in Automation</li> </ul>
<b>Skills / Experience:</b>	<p><b><u>GRID Interconnection</u></b></p> <ul style="list-style-type: none"> <li>• Proven track record in renewable energy balance of plant design and solar, wind or small hydro grid integration experience</li> <li>• Experience with integration of microgrids and storage solutions</li> <li>• Experience in industrial electrical system design to CSA standards.</li> <li>• Detailed knowledge of Canadian Electrical Code (CEC) regs and design standards.</li> <li>• Project management / delivery experience.</li> </ul> <p><b><u>Field Support</u></b></p> <ul style="list-style-type: none"> <li>• HV experience and qualifications.</li> <li>• Experience working with industrial electrical and SCADA systems, preferably Siemens Step 7 systems.</li> <li>• Experience in troubleshooting/ fault finding on industrial systems.</li> <li>• Hands-on experience with electrical installations/ cabinet building.</li> <li>• Experience in electrical equipment/component installation testing.</li> <li>• Extensive experience with power conditioning equipment and motor drive units, preferably Siemens systems &amp; products.</li> <li>• Extensive knowledge in Automation &amp; Drives products, preferably Siemens</li> <li>• Ideally Step 7 and TIA portal experience, ability to develop code blocks, adapt and review the code</li> <li>• Experience in developing and adapting existing HMI Visualisation using WinCC Flexible/Advanced/Professional</li> <li>• Familiar with industry standard programming languages (e.g. STX, C, C#).</li> <li>• Experience with Linux based systems.</li> <li>• Familiarity with computer networking.</li> <li>• Experience working in the marine environment preferred.</li> </ul>
<b>Personality Traits:</b>	<ul style="list-style-type: none"> <li>• Enthusiastic, self-initiating, and problem-solving “can do attitude”</li> <li>• Prepared to make decisions</li> <li>• Prepared to work long hours and weekends when project requires</li> <li>• Prepared to spend sustained periods of time at site and on call</li> <li>• Ability to work in a fast paced dynamic environment</li> </ul>