



OceanWorks International in Burnaby, Canada, has an immediate opening for an **Intermediate Electrical Engineer**.

OceanWorks International is a privately held subsea technology company that specializes in manned and unmanned subsea work systems and engineering/fabrication services for key international marine industries including International Military, Scientific, Oil & Gas, and Renewable Energy markets. Our Burnaby operation is focused on the design, assembly and testing of subsea technical solutions.

#### **BASIC JOB DESCRIPTION:**

The Intermediate Electrical Engineer is responsible for detailed design and development of subsea electrical systems, including but not limited to preliminary and critical design and testing of electrical and electro-mechanical systems. The designs are to meet safety, functionality, manufacturability and cost requirements.

#### **MAJOR RESPONSIBILITIES:**

- Lead the electrical design and production support of multi-disciplinary projects under the direction of a lead project engineer.
- At times, work as a lead project engineer on small, primarily electrical projects under the direction of a systems engineer.
- Lead small electrical engineering teams.
- Design electrical systems including power distribution systems, electronic circuits, electrical assemblies and integrated systems.
- Perform design verification, production and assembly, integration and testing, system commissioning.
- Develop and/or review detailed electrical engineering documentation including engineering specifications, bills of materials, process specifications (material specifications, work instructions, test procedures, etc.), calculations, analyses, technical data, electrical schematics and printed circuit boards, ICDs, engineering reports, assembly & installation instructions, operation & maintenance manuals, illustrations and presentations to enable the correct manufacture, assembly, installation and testing of subsea and related equipment.
- Check and/or approve detailed electrical engineering documentation to ensure that designs meet the standards established by the company and required by customers.
- Initiate / process ECOs and NCRs.
- Identify and source components to be used in designs, including consideration of quality assurance requirements.
- Maintain complete and accurate project records, including design calculations, design reviews, computer files, drawing files, correspondence, NCR/ECO's, etc.
- Meet project requirements and budget through adherence to the engineering design control process.
- Provide technical assistance to manufacturing for sourcing, procurement, fabrication, testing, troubleshooting, installation, commissioning and operation of deliverable equipment, spare parts and test equipment.
- Apply QA codes and process specifications to the configuration baseline.

- Support field work and system commissioning including travel to remote locations when required.
- Develop content for product manuals and training manuals and assist with technical training courses.
- Assist preparation of design proposals including concept development, bidding and estimating.
- As required, assume the role of electrical assembly technician.
- Perform other duties as may be assigned

#### **WORKING CONDITIONS:**

- Office environment
- Mechanical and electrical manufacturing, assembly and testing with exposure to typical workshop conditions.
- Training and testing of various underwater devices including pressure testing and shallow water testing.
- Requires wearing of personal protective equipment per company policy and procedures.

#### **OTHER:**

- Willingness to travel and work internationally up to 15% of the time for customer reviews, installation, commissioning, testing, customer support or other duties as required.

#### **QUALIFICATIONS / REQUIREMENTS:**

##### Education:

- Bachelor's degree in electrical engineering, mechatronics or similar
- Registered professional engineer or eligible for P. Eng. registration

##### Required Training/Experience:

- Minimum of 5 years of sub-sea / high reliability engineering or equivalent with direct experience in the design and development of electrical/electronic systems for remote and harsh environments.
- Demonstrated experience in design, integration, qualification testing, troubleshooting and commissioning of high reliability systems.
- Experience in project engineering, system engineering, work breakdown structure and application of standard engineering practices to ensure conformance with functional specifications and project requirements.
- Experience with AutoCAD for development of electrical schematics and block diagrams
- Experience with Altium Designer for the development of printed circuit board assemblies
- Experience with EMI/EMC and noise mitigation strategies is an asset
- Experience with high voltage systems is an asset

Required Knowledge, Skills and Abilities:

- Knowledge of configuration baselines, QA codes and process specifications.
- Knowledge of electrical/electronics design standards (e.g. IEEE, NEC).
- Ability to lead small project teams.
- Ability to multi-task on several concurrent projects.
- Demonstrated ability to execute under pressure and tight timelines.
- Fluency in English, spoken and written
- Mandarin language skills an asset

Security Clearance:

Employees must be able to work in an environment governed by the Controlled Goods Program of Canada, and therefore a criminal record check may be required for all new employees. Information can be provided upon request.

If this opportunity appeals to you, then please send your cover letter and resume to us. Please quote "Intermediate Electrical Engineer" in the email subject line. Please outline in your cover letter how your knowledge, skills and abilities match the requirements of this position and please let us know the reasons for your interest in working at Oceanworks.

We thank all candidates for their interest; however, only candidates selected for an interview will be contacted. We politely request no telephone calls please.

OceanWorks offers a competitive compensation package with an excellent benefits package. Our team is made up of self-motivated, innovative individuals who thrive on challenge. We are always looking for talented, success-oriented people to join our team. We embrace an open work environment where you can express your ideas. We cultivate teamwork and cooperation. If you are creative and would like to join our team, we would love to hear from you.

If you would like to receive more information about our company, please visit our website at [www.oceanworks.com](http://www.oceanworks.com).