

Industrial Electrician

At Carbon Engineering, our vision is to lead the world in the large-scale removal of carbon dioxide from the atmosphere and advance our shift to a sustainable carbon-neutral society. Based in the outdoor recreation hub of Squamish, BC, this role will be a great fit for someone who feels passionately about this vision, and who wants to be a part of a fast-paced culture where contributions are noticed.

Position Scope

This is a position for a Red Seal Electrician with experience in the industrial sector, specifically, oil and gas, water treatment, pulp and paper, or other industrial plants. In addition to a solid grounding in industrial practices and electrical code, the ideal candidate will have experience in a broad range of skills including DCS/PLC/HMI programming and/or instrumentation. Construction electricians will not be considered.

- Reports to the Maintenance Manager.
- Responsible for the installation of electrical systems including power and signal cabling as well as enclosures, lighting, motors, VFDs and other related equipment.
- Assist in the maintenance and troubleshooting of Carbon Engineering's electrical equipment across all unit operations; from capture, refining and storage of atmospheric CO₂ to production of synthetic crude oil.
- Mentors plant operators and junior engineers in electrical standards and practices.

The successful candidate will have the potential to shape this new role dependent on their background and experience as well as the opportunity to help build CE's maintenance processes, procedures and systems from the ground up.

Responsibilities

- Carry out preventive and condition-based maintenance of Pilot Plant process equipment including instrumentation, VFDs, motors, and pumps.
- Maintain, troubleshoot, and program DCS/PLC and HMI systems.
- Identify, develop, install, and implement upgrades on existing electrical equipment.
- Monitor equipment and processes and ensure deficiencies and operational issues are reported clearly.
- Utilize knowledge and experience of electromechanical systems to troubleshoot complex issues on a range of pilot equipment.
- Conduct inspection and repair of equipment and determine parts required for repair and replacement.
- Install machinery and equipment according to wiring schematics and code.
- Coordinate preventative maintenance activities to reduce plant downtime.
- Assist with managing a critical parts inventory.
- Arrange 3rd party inspections and certifications of equipment as required.
- Record maintenance activity in line with the plant maintenance schedule.

- Use OEM Operation and Maintenance manuals to collate maintenance requirements and populate the maintenance schedule.
- Assist the Maintenance Manager with the development of maintenance systems, procedures, standards and practices and identification of reliability trends.
- Assist with design, specification, installation and commissioning of benchtop and pilot equipment dependent on experience.
- Assist with fabrication and installation of new process equipment dependent on experience.
- Availability for shift work including evenings and weekends as required.

Qualifications

- Education: Inter-Provincial Red Seal Electrician certificate.
- Experience: 5+ years industrial experience following Red Seal qualification, preferably in oil and gas, water treatment, pulp and paper, or industrial plant equipment maintenance.
- Thorough knowledge of electrical code as it applies to industrial settings.
- Experience with explosion proof (Class 1 Div 2) installations and practices.
- Forklift and boom lift operation certificates are an asset.
- PLC and/or DCS training (CompactLogix) are an asset.
- Experience developing maintenance programs are an asset.
- Excellent written and verbal communication skills.

In addition to technical skills, the right fit will:

- Be a self-starter with the ability to work independently towards multiple deadlines with minimum supervision in a fast-paced environment.
- Thrive on doing things that have not been done before (explorer mindset).
- Strong analytical, technical writing and problem-solving skills.

If this seems like the dream job for you, send your resume to careers@carbonengineering.com and quote "Industrial Electrician" in the subject line.