

Sr. Control Systems Engineer

At Carbon Engineering, our vision is to lead the world in the large-scale removal of carbon dioxide from the air 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

Develop requirements and specifications of the instrumentation and control systems for CE's current pilot facility and future greenfield projects.

- Reports to Electrical Team Lead.

Responsibilities

- Assist in instrumentation and control design for existing and future process plants.
- Assist with equipment selection.
- Advise on the selection of instrumentation, PLC/DCS, SCADA, system architecture.
- Write PLC/DCS control software, design HMI displays and setup data historians.
- Prepare and review design packages including process control narratives, loop diagrams, single-line diagrams, electrical drawings, basis-of-design documents and other design standards.
- Create and maintain company standards and requirements for instrumentation selection, control system selection, naming conventions, style conventions, etc.
- Assist plant Operators with troubleshooting advanced controls/instrumentation issues as needed.
- Interface and provide oversight with an EPC team.
- Actively contribute to the continuous improvement of internal processes and procedures.

Qualifications

- Education: B.Eng. Electrical Engineering or equivalent.
- Registered as a Professional Engineer (P.Eng.) in BC, or eligibility for registration is an asset.
- Experience: minimum 8+ years' experience with multiple facets of instrumentation and control design for process plants from initial design to implementation.
- Hands on experience working in an industrial facility.
- Good understanding of electrical systems, control enclosures, 3-phase systems.
- Good understanding of the Canadian Electrical Code.
- Good understanding of design standards such as ISA 18.2 and ISA 88.
- Good understanding of multiple PLC/DCS systems (Allen Bradley, Honeywell, Delta-V).
- Knowledge of multiple HMI/SCADA systems (FactoryTalk, Ignition, Experion, Wonderware).
- Familiarity with local and multi-facility data historians.
- Experience managing or working for EPC.
- Knowledgeable of various types of process sensors (flow, temperature, pressure, etc.) to provide recommendations on which technology will work best in a given process.
- Experience in Statistical Process Control (SPC) or other quality initiatives.
- Experience with data analytics and analysis in a process facility.
- Excellent written and verbal communications skills.
- 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) and tackling challenging problems.

If this seems like the dream job for you, send your resume to careers@carbonengineering.com and quote “Sr. Electrical Engineer” in the subject line.