

Electrical Design Engineer

For over 40 years ISE has been a world leader in the production of manned and unmanned underwater vehicles. We place great emphasis on developing equipment to meet the specific requirements of each clients' unique mission. ISE's skilled and agile team of Engineers and Technicians produce customized, mission driven vehicles that vastly out perform *off the shelf* solutions in less time and at lower costs.

ISE offers a competitive compensation and benefits package, flexible working hours and a unique work environment. If you are passionate about the Earth's oceans and the technology that enables their exploration – we would love to hear from you.

Job Description

ISE is seeking a professional electrical engineer to join our team. The successful candidate will be responsible for the design, production and commissioning of electronics and control systems for subsea robotics projects. The emphasis of this position will be on circuit board design and board level embedded system programming. This is a full-time position at our facility in Port Coquitlam, BC.

Responsibilities

- Supervision of technicians and junior engineers to ensure quality and scheduling targets are achieved
- Control electronics:
 - Component specification & integration
 - Circuit interface specification (discrete IO, serial, networked, CAN Bus etc.)
 - Distributed networking of real time control modules
 - Low voltage power conditioning and distribution
 - Altium designer, PCB circuit design
 - Analog and digital interface circuit design, signal conditioning and communications
 - Microcontroller circuits and programming
 - Control system software configuration
- Documentation & schematic design (AutoCAD, SolidWorks):
 - One-line diagrams
 - Wiring harness or cable drawings
 - Point to point wiring diagrams
 - Electrical assembly layout
 - Power budget creation & calculations
 - Project documentation (test plans, system specifications)
 - Configuration management, version control and issue tracking. Especially MKS, CVS, Subversion
 - Proposal preparation and project costing

Basic Qualifications

- BAsC. (or equivalent) in electrical engineering
- Registered (or eligible to register) as a Professional Engineer with APEG BC
- 5 years of experience as a design engineer
- A good working knowledge of real-time control system design
- Demonstrated competence in PCB design and embedded programming
- Must be periodically available to work extended hours, evenings and weekends
- Must be able to work well as part of a team, independently and with diverse groups of people
- Excellent communication and organizational skills
- Excellent verbal and written skills in English

Additional Requirements

- Domestic and International Travel 10%
- Willingness and ability to work off-shore
- Must be eligible to work in Canada
- Must be eligible to obtain enhanced reliability security clearance

To Apply

Please **do not** telephone.

Submit resume and cover letter to:

Hiring Manager: careers@ise.bc.ca

ISE is an equal opportunity employer. ISE considers all applicants for employment without regard to race, color, religion, sex, national origin, age or disability in accordance with applicable federal, provincial, and local laws.