

## About Powerside

Powerside is a leading end-to-end provider of Power Quality and equipment monitoring solutions. The Company aims to change the \$40 B power quality market, which is too complex and confusing for many customers to navigate.

Our product range includes PQube®, the most capable and cost-effective power analyzer on the market, and a full range of low and medium voltage power correction equipment. To date, we have deployed 50,000+ monitoring solutions and delivered 5,000+ correction projects in over 50 countries. We are proud to count many of the world-leading companies, including dozens from the Fortune 500, as our customers.

Powerside's focus is on Power Security, a step above the traditional world of Power Quality. Harnessing IOT/cloud technology, and advanced analytics, Powerside's goal is to modernize the approach to system and facility monitoring in a broad range of high-value applications, ensuring that our customers have reliable power, so they can focus on what they do best.

Powerside has facilities in Alameda, California, and Montreal, Quebec, Canada. We provide a competitive compensation package with healthcare and retirement plans.

All our employees share in the success of our company through a generous stock option plan.

**Position:** Senior Power Electric Engineer - Project Lead

**Report to:** R&D Director

**Status:** Permanent, Full-Time

**Location:** St. Laurent, Quebec

## Role Overview

Part of the Global R&D team to develop Correction products for Low and Medium Voltage Applications. You will work in Concurrent Engineering within the complete life cycle of the product. You will be reporting to R&D Director To support Design and project management activities related to your projects.

## Your challenges

- Design & integrate power electronic modules (Capacitor, Harmonic Filter, magnetic components, switching circuit & MCC, Active filtration) in accordance with the principles of electrical code (CSA, UL, NEC, IEEE, ANSI, IEC...)
- Research, design, and Coordinate activities related to new Power systems (internal and with external resources)
- Design and analyze power quality and energy measurements to provide our partners and customers with solutions and recommendations, including network simulation studies for power factor, harmonics, transients etc.
- Provide support to Application Engineering for Low and Medium Voltage power quality correction and system monitoring equipment.
- Support RFI-RFQ process, Project definition for product design related to customer Bid.
- Planning and monitoring of design activities for a given product, from architecture to production
- Design power electronic circuits that comply with electromagnetic compatibility (EMC) standards
- Produce calculations and simulations in order to select the components necessary for the development of the product (IGBT, SiC Mosfet, capacitors, inductors, trigger circuits)
- Supervise the work of technicians and assemblers when required
- Produce and control, production engineering documentation



- Participate in design reviews of complete products
- Represent the company as a technical expert when meeting with clients
- Propose, improve and maintain the processes of design, documentation, and release of electrical products
- Write technical reports
- Participate and support quality problem-solving exercises
- Participate in the design of integrated module considering thermal constraints and signal integrity
- Contribute to the research and development of new technologies for electronic products.
- Occasional travel to support onsite product commissioning.

#### Your Strengths

- Bachelor's degree in electrical engineering or other equivalent field
- Member of the OIQ (Ordre des Ingénieurs du Québec)
- Minimum of five (5) years of experience in power electronics design
- Experience in dimension and design of Electric Network system correction, an asset
- Experience in Synchronous static compensator, an asset
- Demonstrated knowledge in inverter architecture and power module design
- Experience in Electricity Building electrical service and design, an asset
- Knowledge of ETAP, SKM, AutoCad, Solid Works, an asset
- Knowledge of protection relaying, Variable Frequency Drives, an asset
- Has great attention to detail
- Pro-active and self-starter
- Great team player
- Demonstrated ability to document work
- Ability to work in multidisciplinary teams
- Knows how to take a critical look at his work and that of others
- Rigorous and respectful of deadlines.

#### Language

- Fluency in English, spoken and written
- Fluency in French, spoken and written, an asset.

#### Perks

- Excellent Healthcare, Dental and Vision plans
- Large focus on Stock options-we believe everyone should be an owner
- Opportunity for growth

Please apply to [careers@powerside.com](mailto:careers@powerside.com) with a resume and a cover letter.

