

January 5, 2026

Senior Power Studies Engineer

We are actively seeking a **Senior Power Studies Engineer** to join our dynamic and growing team at Xentric Engineering. This senior-level role is ideal for professionals with deep expertise in electrical power system analysis and modeling, including load flow, short-circuit, arc flash, and protection coordination studies.

This position offers the successful candidate the opportunity to provide technical studies for utility interconnections, industrial facilities, and renewable energy projects across Western Canada. Xentric Engineering is a multi-disciplinary engineering consulting firm, specializing in utility interconnections, transmission lines, high-voltage electrical substations, and distribution systems for generating facilities, large industrial operations, and utilities.

JOB TITLE: Senior Power Studies Engineer

JOB NUMBER: 202601-E4-003

LOCATION: Canmore, AB, Calgary, AB, or Langley, BC

OVERVIEW: Xentric Engineering is seeking a Senior Power Studies Engineer with extensive experience in power system modeling and analysis. This role involves leading engineering studies, preparing technical reports, and ensuring compliance with APEGA and/or EGBC regulations. The successful candidate will contribute to the development of interconnection packages, support regulatory applications, and lead and mentor multidisciplinary engineers and Engineers-in-Training (EIT's). The position will include, but not be limited to the following:

- Lead and execute power system studies including load flow, short-circuit, arc flash, grounding, protection coordination TCC's, etc.
- Utilize industry-standard software such as ETAP, CYME, and PSCAD.
- Prepare detailed technical reports and study documentation for utility and client review.
- Support interconnection applications and regulatory filings for utility-scale and industrial projects.
- Collaborate with transmission, substation, and distribution engineering teams to ensure integrated project delivery.
- Review and validate relay settings and protection schemes.
- Ensure compliance with CSA, IEEE, and Canadian Electrical Code standards.
- Mentor engineers and EITs in power systems analysis and reporting.
- Maintain and enforce the company's PPMP in accordance with provincial regulations.
- Represent Xentric in client meetings, technical reviews, and regulatory discussions.

CANDIDATE: The ideal candidate would have the following:

- Bachelor's or Master's degree in electrical engineering from a Canadian-accredited institution.
- Registered or eligible for registration as a Professional Engineer (P.Eng.) with APEGA and/or EGBC.
- Minimum 10 years of experience in power system studies and electrical engineering consulting.
- Proficiency in ETAP, CYME, PSCAD, and Microsoft Office Suite.
- Strong understanding of utility interconnection requirements and protection coordination.
- Experience with AC Interference, Harmonics and volt transients
- Excellent communication, analytical, and organizational skills.
- Demonstrated ability to manage multiple projects and mentor multidisciplinary engineering teams, including Engineers-in-Training (EITs).





The successful candidate will be supplied with a computer workstation, complete with the appropriate software and applications necessary to do the job. The standard work week would be 40 hours, with the hours of work flexible and based on an 8-hour day. This role is primarily an in-office position, however working from home occasionally is permitted.

REQUIREMENTS: This position requires that the successful candidate is legally permitted to work in Canada and is eligible for registration as a Professional Engineer (P. Eng) with either APEGA or EGBC.

ABOUT US: Xentric is a privately owned, engineering firm with nearly 100 years of industry experience. We are 100% Canadian owned and operated, delivering high-quality engineering and consulting services across Western Canada. Led by a collaborative and experienced management team, our reputation is built on technical excellence, proactive communication, and long-term client relationships.

Our mission is to provide outstanding engineering services with uncompromising quality and customer support. We strive to exceed expectations through a solutions-focused approach, anticipating client needs and ensuring successful project outcomes. Our employees contribute to complex, impactful projects in a supportive environment, with access to a comprehensive benefits package and long-term career development. Our main office is in Canmore, AB with additional offices in Langley, BC, and satellite staff in Kelowna and Calgary; a dedicated Calgary office is being planned for 2026.

APPLYING: To apply, please submit a cover letter (required), resume, and a writing sample (optional but preferred – e.g. a technical memo, report excerpt or coursework) to careers@xentric.ca, referencing the job number in the subject line. We appreciate the interest of all applicants. Only candidates selected for an interview will be contacted.

BENEFITS:

- Casual dress
- Company events
- HSA
- Active Living Benefit (Fitness) \$1,000
- Flexible schedule and work environment
- On-site parking
- Paid time off
- GRSP
- Schedule: Monday to Friday

ABILITY TO COMMUTE/RELOCATE:

We're hiring across all our locations! Our Canmore and Langley offices are each about an hour from Calgary and Vancouver, respectively. Please consider your ability to commute or plans to relocate before applying.

