

Electrical Design Engineer, Technologist, or Technician, Transportation

September 16, 2022

PBX Engineering is an electrical, systems, and software engineering firm in British Columbia & Alberta. We develop leading edge systems for municipal infrastructure, transportation, security, buildings, and industrial applications across Canada and the United States.

PBX is looking for a qualified Transportation Electrical Engineer or Designer to assist senior engineers in delivering projects in BC & Alberta.

Position Summary

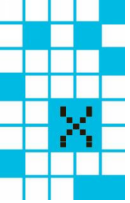
Working closely with senior engineers, the Transportation Electrical Engineer or Designer will be an active member of the Transportation team, with responsibility for project tasks in the following areas:

- Project and client management
- Preparation of electrical designs for traffic signals and lighting
- Preparation of electrical and systems design for Intelligent Transportation Systems (ITS) infrastructure including CCTV, Advanced Traveler Information Systems, Traffic Safety Systems, Active Traffic Management Systems.
- Preparation of calculations and simulations
- Preparation of design documentation, including drawings, cost estimates, and construction specifications
- Performing construction services and site inspections
- Performing system testing, commissioning, and troubleshooting

A successful candidate will help support the company's large and diverse project portfolio, where opportunities for efficiencies will need to be identified and implemented in order to manage demands related to time and resources as the company grows and workload increases.

The diverse workload for this position includes technical areas such as:

- Roadway, pedestrian, and multi-user pathway lighting
- Traffic signal infrastructure design, traffic engineering, traffic signal timing analysis
- Intelligent Transportation Systems (ITS)
- Power distribution



Qualifications

In addition to experience with the above responsibilities, the qualifications for the position include:

- Degree in Electrical Engineering from an accredited university, or diploma in Electrical Engineering Technology program or equivalent from a recognized technical institute.
- Eligible for registration with either:
 - ASET (Association of Science & Engineering Technology Professionals of Alberta) as a C.Tech, CET, or P.Tech.; OR eligible for registration with APEGA as an EIT/P.Eng.
 - ASTTBC (Applied Science Technologists and Technicians of BC) as an ASCT.; or eligible for registration with EGBC as an EIT/P.Eng.
- Strong oral and written communication skills
- Effective interpersonal skills
- Eagerness to learn and a positive, professional attitude
- Able to effectively deal with a high level of responsibility and demanding work schedule
- Knowledge of the Canadian Electrical Code
- Strong computer skills including good working knowledge of the MS Office suite

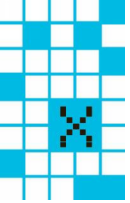
Assets

- Knowledge of the following areas are not mandatory, but are considered an asset to the position:
 - Experience with traffic simulation and modelling using Synchro
 - Experience with AutoCAD
 - Experience with AGI
 - Security system design including CCTV, perimeter security, and access control platform
 - Building electrical systems including residential, commercial, and industrial facilities
 - Water and wastewater infrastructure including SCADA systems and Automation

Benefits & Other Compensation

We provide a comprehensive benefits package that promotes employee health and wellness which includes the following:

- Medical, Dental, & Vision Benefits, including short and long-term disability, and life insurance
- Paid time off, including paid holidays, Sudden Illness, Injury & Childcare (SIIC) days
- A Maternity & Parental Leave Top Up Program
- Registered Retirement Savings Plan (RRSP) with company matching
- A Fitness & Wellness Incentive Program
- An Employee Assistance Program
- Annual bonus program based on company and personal performance



Applications

Qualified applicants are encouraged to send their resumes, complete with references, via email to careers@pbxeng.com. Include “**Electrical Design Engineer, Technologist, or Technician, Transportation**” in the subject line.

Resumes will be accepted until position filled.

About PBX

PBX Engineering offers a challenging and rewarding environment. PBX employs innovative, critical thinkers who enjoy solving problems through creative and collaborative interaction. The selected candidate should be genuinely interested in participating in the mutually beneficial growth and technical development of a very strong and talented group of engineers and designers. Our diverse workload includes technical areas such as:

- Water and wastewater infrastructure including SCADA systems and Automation
- Power distribution systems including MV/HV substations, low voltage distribution, and grounding systems
- Intelligent Transportation Systems (ITS) including lighting design and traffic studies
- Security system design including CCTV, perimeter security, and access control platforms
- Building electrical systems including residential, commercial, and industrial facilities

We believe in supporting the long-term career development of our staff through a diverse and challenging workload, industry engagement, and internal and external training. We apply the same effort in fostering a positive social environment as we do in developing innovative and successful projects. We continuously strive to make our firm the kind of place where people want to stay – and our benefits package and approach to compensation are structured to support that goal. We are looking for someone who shares our passion for high quality work and who is interested in contributing positively to our corporate culture.