

Intermediate Traffic Operations/Signals Engineer

ISL Engineering and Land Services Ltd. is an award-winning full-service consulting firm dedicated to working with all levels of government and the private sector to deliver planning and design solutions for transportation, water, land, and environmental projects.

Our commitment to client success is built on a strong foundation: we know the communities we serve. This local knowledge, combined with our range of expertise and depth of experience, helps us meet the unique challenges of every project and better understand the role of sustainable solutions in all phases of a project's life cycle.

A Little About Us

The ISL Transportation group is seeking a talented and enthusiastic Intermediate Transportation/Traffic Operations/Signal Engineer to join our team. Working within the ISL Transportation group is an opportunity for involvement in a significant range of project types including signal systems for large Highway and Freeway conversion projects to small municipal signalling systems and non-vehicular modes signaling systems (rail, bicycles, transit). Your role will be working directly with our municipal clients and with other ISL project managers leading their urban or rural transportation design projects.

A few Transportation projects we are proud to have supported:

- [Bragg Creek Skewed Signals](#)
- [Divering Diamond Interchange](#)
- [St. Albert Intersection Signals](#)

A Little About You

The ideal candidate will have an established background in traffic operations, design of traffic signal and illumination systems.

Your cover letter must demonstrate:

- What has you interested in ISL Engineering?

Your resume should show us:

- Degree in Civil, Electrical or related degree
- Canadian P.Eng. or P.L.(Eng.) - applicant must be registered with APEGA or eligible to transfer membership to APEGA OR an EIT with a minimum of 7 years of experience.
- A minimum of 5 to 10 years of progressively responsible experience in traffic signal design and traffic operations.
- Demonstrable traffic operations, traffic signal and/or illumination systems experience.
- Significant experience with traffic operational analysis software. (Synchro, Simtraffic, Sidra).
- Experience with illumination analysis software (AGi32).
- Experience with AutoCAD and Civil3D (for the purposes of reviewing, checking designs).
- Experience with MUTCDC, IMSA, TAC, IESNA and TEC standards/guidelines for traffic operations, traffic control devices, illumination and traffic signal systems.
- Strong oral and written communication skills.

Bonus points for:

- Signal system experience for non-vehicular modes (transit, bicycles, rail interconnection).
- Road safety experience.
- RSP, PTOE, M. Sc., M.Eng and/or PMP designation.

A Little More About the Role

Responsibilities:

This role will be highly sought after for technical expertise by Transportation Engineering and Design groups internal to ISL and for our clients throughout Northern Alberta. Working collaboratively across the organization this position will make the following valuable contributions:

- Liaise and communicate effectively with clients and internal team members (Engineers, Project Managers and other technical staff) in the design and specification development of traffic signals systems and illumination systems.
- Ensure that engineering deliverables are compliant with applicable regulations, standards, procedures and uphold to engineering best practices.
- Work under minimal supervision during design, tender and construction phases of projects.
- Lead the design, specifications and tenders for client-specific traffic signal control and illumination systems with support from other ISL staff.
- Planning and operational analysis of intersections and traffic signals.
- Complete warrant evaluations for traffic signals, illumination, left turn operation, etc.
- Evaluate client requests and provide design options during preliminary and detailed design phases of projects.
- Review and provide concise feedback on contractor queries and submissions during tender and construction phases of projects.
- Direct contractors to ensure successful project commissioning.
- Prepare other types of traffic operational projects including road safety reviews, traffic reviews, traffic impact assessments and other traffic engineering assessments for development and municipal clients.
- Successful execution of projects to meet client's needs, on time and within budget
- Work collaboratively with Transportation Planning, Urban and Rural Design Construction groups.

What ISL Offers

We value you for your contributions and want to ensure that your personal success is intertwined with your professional success. Our wellness philosophy encompasses the four pillars of physical, mental, financial and spiritual wellbeing. Our benefits package is comprehensive and offers you some of the best available tools to maximize your career and lifestyle.

Here are some of the exceptional benefits we provide:

- Excellent mentorship
- Flexible working hours
- Hybrid model of work
- Employer paid benefits including health, dental and extensive paramedical services
- Healthcare Spending and Lifestyle Option Accounts
- Group RRSP
- Annual bonus incentives
- Paid professional development opportunities and memberships
- 24/7/365 Employee Family Assistance program