



NOTICE: Effective January 15th the OPS will be posting new job advertisements on the eCareers website daily. New job advertisements will be posted throughout the week, Monday through Friday. Please check the site regularly to see new opportunities available within the OPS.

Please note that the **job alert** function is temporarily unavailable. We are working on correcting the issue, but in the meantime, please check the website regularly for updated job posting details. We will post an updated message on the site when the job alert function is functional again.

Job Specification

Position Title: SENIOR PROJECT ENGINEER
Job Code: PEGO - Bargaining-Engineering 08, 08PBE
Job ID: 16666

Purpose of Position:

To provide engineering technical and administrative direction to staff and consultants in the delivery of transportation projects of large size and complexity by applying sound engineering and technical expertise, ministry standards, and administrative procedures to ensure the provisions of a safe provincial highway system.

Duties/Responsibilities:

Under the general direction of an Area Engineer/Area Manager:

- Provide leadership to staff and consultant in the preparation of planning and design products;
- Determine by field inspection, interpretation and analyse of available information, additional data needed to carry out assigned projects;
- Co-ordinate the supply of all necessary input data and recommendations; identify problems and prepare reports and alternative/recommendations on all engineering matters and technical matters.
- Organizes and conducts public information centres to explain projects and their effects.
- Present proposals/designs to senior management, local municipalities and other agencies to negotiate and resolve issues and obtain endorsements.
- Prepare reports and alternative/recommendations.
- Prepare design criteria for adherence to engineering quality standards, completeness etc.
- Administer the detail design of large and/or complex transportations facility projects, including the preparation of contract drawings endorsements.
- Coordinate and direct the activities related to feasibility studies, route location studies and preliminary design studies.
- Administer the corridor investment planning activities that support the development of asset inventories, vision documents & plans, constrained investment plans and the capital construction plan;
- Assesses and negotiates the compatibility of development proposals on or adjacent to the existing or future rights-of way;
- Obtain necessary statutory and regulatory orders such as railway crossing board orders, interprovincial pipeline crossing orders and drainage petitions;
- Prepares or ensures the preparation of appropriate documents and justifications for boards, tribunals, courts, hearings, commissions, etc. and ministerial and public inquiries; attends all to give evidence and represent the ministry as an expert witness on engineering and technical matters.
- Maintain a close liaison with supervisors/engineers/technicians/staff in establishing and monitoring project schedules for internal and external resource requirements;
- Co-ordinate input and deliverables of all functional components in consultant assignments;
- Plan, co-ordinate, organize and direct the planning, preliminary and /or detail design of assigned in-house projects;
- Supervise and direct the activities of assigned staff;

Knowledge:

- Requires registration/licence from Professional Engineers of Ontario;
- Thorough knowledge of theories, principles and practices of civil engineering related to highway planning and engineering;
- Working knowledge of related fields including geotechnical, pavement design, structural, drainage, surveys, electrical, traffic, and construction practices;
- Working knowledge of related legislative acts (Environmental Assessment Act, Public Transportation and Highway improvement Act, Drainage Act, etc.), economics, budgeting, land use planning and automated engineering systems;
- Of consultant acquisition, administration, and evaluation;

- Of ministry organization, relevant policies, procedures and standards;
- Of project management techniques required to manage projects of moderate size and complexity;
- To establish effective working relationships with colleagues, associates, senior officials and the public;
- Communication and presentation skills to make presentations and represent the ministry as an expert witness on engineering related matters;
- Working knowledge of Value Engineering, problem solving and decision-making techniques, and alternative delivery methods, such as functional outsourcing, Total Project Management and Design Build.
- A valid drivers license

Judgement:

Under the general direction of a more senior staff member, show sound judgement in:

- Controlling budgets of assigned consultant projects;
- Overseeing consultant assignments for completion of deliverables and "value for money";
- Providing direction and engineering/technical/administrative advice to ministry staff and consultants;
- Establishing and adjusting schedules;
- Developing, evaluating and analysing alternative proposals;
- Assessing the implementation of ministry and regional policies in terms of project delivery and resource utilization;
- Presenting recommendations and evidence regarding alignment, grades, standards, traffic control, drainage, property requirements, etc.;
- Preparing special provisions and special standards;
- Assessing the accuracy and completeness of proposals/designs, contract drawings and documents;
- Assessing and negotiating the compatibility of development proposals and land disposal requests on or adjacent to existing and future rights-of-way;
- Providing expert testimony at Board/Court Hearings and Coroners Inquests;
- Providing work that is technically accurate conforming to ministry standards, practices, policies, procedures, and budget constraints.

Accountability - Programs:

- Timely delivery of assigned projects for availability to support the ministry's long-range planning activities and the Capital Construction Program;
- For the overall management and delivery of projects of moderate-large size and complexity in a cost-effective manner;
- For establishing work schedules and assigning internal resources or consultants;
- For the overall engineering quality, technical integrity and endorsement of proposals by all concerned agencies and individuals;
- For presenting sound and accurate information/testimony on engineering, technical and administrative matters at Board/Court Hearings and Coroners Inquests;
- For ensuring that proposals minimize and/or mitigate adverse social and environmental impacts;
- For providing sound planning, engineering, technical and administrative advice to subordinate staff and consultants;
- For ensuring that the ministry receives "value for money" in both engineering and capital costs

Accountability - Personnel:

- Supervise support staff and administer consultants as required.

Accountability - Finance & Material:

- Regular updates of cost estimates on assigned projects;
- Determine appropriate cost estimates for consultant assignments and addenda;
- Budget control of assigned consultant assignment;
- Cost effective use of Planning and Design budgets.

Accountability - Impact of Errors:

- Public safety;
- Adversely affect ministry Capital Construction Program by delays;
- Improper use of public funds due to higher design/construction costs.

Contact - Internal:

- Regularly with professional engineers, managers and technicians in the Region, District and Head Office;
- Occasionally with senior officials in the ministry for the purpose of obtaining, making recommendations, resolving issues and obtaining endorsements pertaining to the work projects being managed.

Contact - External:

- Regularly with professional engineers, managers and technicians of consultants, utility and transportation agencies to provide direction, advice and/or resolve problems;
- Frequently with officials and staff of other ministries, local governments and the public for the purpose of presenting planning or design proposals, explaining their effects, seeking recommendations or

endorsements and advising on project related Corridor Control issues;
-Occasionally with news media and elected officials.