

Update

Ministry

Infrastructure

Describe: Basic Job Details

Position

Position ID

Position Name (30 characters)

Environmental Engineer

Current Class

Engineering & Related Level 2

Job Focus

Corporate Services

Supervisory Level

00 - No Supervision

Agency (ministry) code

Cost Centre

Program Code: (enter if required)

Employee

Employee Name (or Vacant)

Vacant

Organizational Structure

Division, Branch/Unit

SIO, Technical Svcs & Procur./Eng. Envir. & Sustain.

Current organizational chart attached?

Supervisor's Position ID

Supervisor's Position Name (30 characters)

Senior Environmental Engineer

Supervisor's Current Class

Design: Identify Job Duties and Value

Changes Since Last Reviewed

Date yyyy-mm-dd

2023-11-06

Responsibilities Added:

None

Responsibilities Removed:

- Conduct design reviews for site development at conceptual, intermediate, and final design states for new projects, upgrades, and repair work.
- Conduct preliminary geotechnical investigation for new and upgrade capital projects.
- Review the effect of easement requests from municipalities, utility companies, and pipeline companies on government owned sites.

Job Purpose and Organizational Context

Why the job exists:

This job is accountable for providing technical support to new and existing Infrastructure sites. To be effective, the position must manage environmental site assessment and survey projects; solve environmental engineering problems; and respond to a wide range of environmental requests by

collaborating with project, facility management, land planning, realty, and procurement teams. This ensures quality facilities are built and maintained, and properties can be disposed of and acquired properly.

Responsibilities

Job outcomes (4-6 core results), and for each outcome, 4-6 corresponding activities:

Perform or assist with the following tasks:

- Manage environmental consultants (proposal, awards, and contracts).
- Conduct environmental investigation for new and upgrade projects.
- Coordinate with environmental consultants for conducting environmental site assessments.
- Keep and update records of environmental reports.
- Manage land survey requests from Asset Management Branch. Prepare scope of work, obtain and review proposals, recommend survey consultants, prepare agreements, monitor progress, review survey plans and recommend payments.
- Prepare property disposition reports for government-owned sites that are being considered for disposal.

Problem Solving

Typical problems solved:

- Services provided can be varied and complex, and require technical dialogue with project managers, Properties Division (Asset Management Branch, Property Management Branch, and Realty Services Branch), consultants, contractors, municipalities, and other departments.
- Environmental Engineering problems normally involve infrastructure outside the building envelope and are often unique and require different innovative solutions to suite specifics of a given site, depending on factors such as location of the site in the province (soils, groundwater).
- As services provided are outside the building envelope, this position manages consultants such as surveyors, environmental consultants on behalf of Infrastructure and other ministries.

Types of guidance available for problem solving:

This position is supervised and works closely with the Senior Environmental Engineer. Requests for new work tasks are initiated by the supervisor. A work plan is developed and agreed upon by the supervisor prior to implementation and assistance on the job is provided as required until the successful completion of the task. This position works within technical codes and standards, which guide the quality of activities. For complex assignments, consultation with external and internal stakeholders is conducted to ensure that the required information/advice is reasonable, practical and cost efficient.

Direct or indirect impacts of decisions:

The completion of the assigned tasks (e.g. environmental site assessment reports and survey plans) determines the future of certain properties earmarked for acquisition/disposition.

Key Relationships

Major stakeholders and purpose of interactions:

INTERNAL STAKEHOLDERS:

- Senior Environmental Engineer for supervision, advice and recommendations.
- Technical Services & Procurement staff: to assist or collaborate on various projects as a team member.
- Project delivery staff in the Health Facilities Branch, Government Facilities Branch, and Learning Facilities Branch: to assist and provide environmental engineering advice and expertise on consultation and in problem solving.
- Asset Management Branch and Realty Services Branch staff: for legal surveys and environmental site assessments, for the acquisition and disposition of properties.
- Property Management Branch staff: when dealing with maintenance and upgrading of existing sites.
- Environment and Protected Areas and other GOA Ministries' staff: for advice and coordination of environmental site assessments.

EXTERNAL STAKEHOLDERS:

- Environmental and survey investigation consultants: for advice on projects, acquiring proposals and managing contracted services.
- Manufacturers and suppliers: to research and acquire knowledge for new products and technologies with

potential value for Infrastructure projects, consult on product applications or problems.

- External boards and municipalities: as needed.

Required Education, Experience and Technical Competencies

Education Level	Focus/Major	2nd Major/Minor if applicable	Designation
Bachelor's Degree (4 year)	Engineering		

If other, specify:

Eligible for membership with the Association of Professional Engineers & Geoscientists of Alberta (APEGA)

Job-specific experience, technical competencies, certification and/or training:

- Strong technical competence and a good working knowledge of environmental engineering
- Innovative problem solving and development of solutions through investigation and analysis, and attention to details.
- Knowledge of environmental codes, regulations, policies, guidelines, and standards as well as land surveying in Alberta.
- Well-developed written and oral communications.
- Understanding of project management including budget, resources and scheduling skills.
- Effective team player.
- Ability to work on computers and computer programs required to perform technical work, and familiarity with software used in the department in performing required duties.
- Ability to develop terms of reference for consultant proposals and management of specialized consultants for clients within Infrastructure and other departments.
- A degree in environmental engineering with a minimum of five (5) years of related experience.
- Eligible for membership with the Association of Professional Engineers and Geoscientists of Alberta (APEGA).
- Valid Alberta Class 5 operator's license to drive to work sites.

Behavioral Competencies

Pick 4-5 representative behavioral competencies and their level.

Competency	Level					Level Definition	Examples of how this level best represents the job
	A	B	C	D	E		
Agility	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Works in a changing environment and takes initiative to change: <ul style="list-style-type: none"> • Takes opportunities to improve work processes • Anticipates and adjusts behaviour to change • Remains optimistic, calm and composed in stressful situations • Seeks advice and support to change appropriately • Works creatively within guidelines 	This job deals with a wide array of requests related to different facets of Environmental Engineering as well as legal land surveys. The incumbent needs to be able to work on multiple projects, address various stakeholders and understand the dynamics of the job and its impacts on the project outcomes.
Build Collaborative Environments	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Facilitates open communication and leverages team skill: <ul style="list-style-type: none"> • Leverages skills and knowledge of others • Genuinely values and learns from others • Facilitates open and respectful conflict 	There is a significant interaction between this job and different areas of Infrastructure and other GOA departments. The incumbent should be able to build collaborative relations with different stakeholders to achieve

		resolution • Recognizes and appreciates others	project goals.
Drive for Results	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	Works to exceed goals and partner with others to achieve objectives: • Plans based on past experience • Holds self and others responsible for results • Partners with groups to achieve outcomes • Aims to exceed expectations	The fast pace for project delivery and the fact that decision making depends on the outcome of our work necessitates driving for results and making sure work is completed on time and within budget.
Develop Self and Others	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	Seeks out learning and knowledge-sharing opportunities: • Reflects on performance and identifies development opportunities • Takes initiative to stay current • Shares with the team even when not asked • Actively coaches and mentors direct reports	Environmental engineers deal with a wide array of areas and need to be familiar with various standards, guidelines, regulatory and legislative requirements. The incumbent needs to stay abreast of these requirements and changes to the job requirements.

Benchmarks

List 1-2 potential comparable Government of Alberta: [Benchmark](#)

Regional Planning Engineer 522ER13
 Municipal Approvals Engineer 522ER03
