

Common Government

Ministry	
Infrastructure	
Describe: Basic Job Details	
	Position Name (30 characters)
	Sustainability Specialist
Class	
Engineering & Related Level 2	
Job Focus	Supervisory Level
Corporate Services	00 - No Supervision
Organizational Structure	
Division, Branch/Unit	
Strategic Integration & Operations	
Supervisor's Position Name (30 characte	ers)
Sr. Sustainability Specialist	

Job Purpose and Organizational Context

Why the job exists:

Reporting to the Senior Sustainability Specialist, this position provides technical expertise in building sustainability. This position assists with developing sustainability design standards and guidelines as they relate to the construction, maintenance and upgrading of government infrastructure, including schools and hospitals. This position actively participates in projects, providing sustainable design, energy and

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commissioning expertise for publicly-funded facilities. The position includes interactions between disciplines to optimize designs. The position is required to maintain current technical and construction knowledge in the fields of sustainability and to introduce this information into the design process.

Responsibilities

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

- 1. Provide Technical expertise to the project design review process.
 - Review Sustainability submissions, including the drawings and specifications applicable to the LEED requirements, as well as the energy model report and supporting documentation.
 - Advise projects when the sustainability requirements have not been adequately addressed in the documentation submitted.
 - Identify gaps in the energy modeling requirements and guidelines for LEED certification, including both the requirements in both the NECB and ASHRAE 90.1.
 - Provide feedback to projects on further opportunities to incorporate sustainable design practices and energy saving strategies into the project scope.
- 2. Contribute to the development of standards for Infrastructure Projects
 - Provide updates to the Technical Design Requirements for Alberta Infrastructure Facilities to maintain Alberta Infrastructure as a leader in sustainable building design.
 - o Identify opportunities and translate lessons learned into best practices in design standards.
 - o Understand upcoming changes to building code, LEED certification, and relevant standards.
 - Provide input to policy drafts, briefings, position papers, background material and reports identifying important issues.
- Be a resource for Properties in the management of Alberta Infrastructure's portfolio of buildings
 - Review and evaluate external consultants providing reports for Infrastructure and other governments.
 - Provide recommendations to improve performance and report on options, cost, timing, and implications.
- 4. Build, develop, and maintain strong partnerships with both internal and external stakeholders including other ministries and other levels or government.
 - Work with industry bodies such as the Canadian Green Building Council (CaGBC), the Canadian Board for Harmonized Construction Codes and International Building Performance Simulation Association (IBPSA) - Canada.
 - Network through professional associations, conference attendance, forum participation and specialized technical courses.

Problem Solving

Typical problems solved:

The position requires specialized knowledge of building sustainability. The position provides technical support in building sustainability topics for both internal and external clients and works with in-house professionals, project consultants, contractors, and clients from other Ministries. Clients include Alberta Infrastructure, other ministries, health authorities, and school boards.

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Building sustainability can be complex requiring a multi-disciplinary approach, knowledge of operational realities and extensive analysis. Solutions are often unique requiring research and resolution outside of common practice.
Types of guideness available for problem colving.
Types of guidance available for problem solving:
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:
Developing and maintaining the technical standards results in high quality Infrastructure facilities.

Key Relationships

Major stakeholders and purpose of interactions:

Internal:

- Senior Sustainability Specialist: Reports to this position, and gains direction and feedback on work.
- Branch staff: Collaborate on issues and find technical solutions.
- Project Managers, Property Management Professionals and Senior Ministry Management: Collaborate on building energy projects.
- Other Department Divisions: Deliver technical presentations for peer-to-peer learning.

External to Ministry:

• Other Ministries, other levels of government, national committees, professional associations, research institutions, health authorities, school boards, consultants, contractors: Collaborate and work towards minimizing the carbon footprint of Government of Alberta assets.

Required Education, Experience and Technical Competencies

Education Level	Focus/Major	2nd Major/Minor if applicable	Designation
Bachelor's Degree (4 year)	Engineering		PEng
If other, specify:			

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

The position requires a Bachelor of Science in Engineering (such as Mechanical, Building Science/ Envelope or Systems) and eligible to register membership with the Association of Professional Engineers and Geoscientists of Alberta (APEGA). The position requires 5+ years of specialized experience.

This position supports the Department's Senior Sustainability Specialist on building sustainability and requires knowledge and experience in the following:

• Knowledge of existing and upcoming building energy codes, Ministry requirements, and other relevant policies, acts, and legislation as related to building sustainability.

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- Knowledge and expertise in building energy modeling.
- Strong technical competence and working knowledge of other engineering and architectural disciplines related to building energy.
- Experience with ASHRAE level 1 and 2 energy audits would be an asset.
- Leadership in Energy and Environmental Design (LEED), GA, AP or LEED AP BD+C is required.
- Strong written and verbal communication skills. Must be able to write technical reports.
- Strong research, analytical, consulting, and problem-solving skills.
- Ability to interpret and explain highly technical data for a variety of clients.
- Valid Alberta Class 5 operators license to drive to and from cross ministry meetings, consultant offices and site investigations.

Behavioral Competencies

Pick 4-5 representative behavioral competencies and their level.

Competency	Level A B C D E	Level Definition	Examples of how this level best represents the job
Systems Thinking		Considers inter- relationships and emerging trends to attain goals: • Seeks insight on implications of different options • Analyzes long-term outcomes, focus on goals and values • Identifies unintended consequences	The position is a technical resource to provide engineering services to stakeholders. Prioritizing tasks ensures stakeholders' concerns are resolved in a most cost efficient way. Responsibilities also include supporting other disciplines to deliver high quality infrastructure facilities.
Creative Problem Solving		Focuses on continuous improvement and increasing breadth of insight: • Asks questions to understand a problem • Looks for new ways to improve results and activities • Explores different work methods and what made projects successful; shares learning • Collects breadth of data and perspectives to make choices	Problems are often unique, requiring solutions that fall outside common practice. Engineering investigations can be very complex, requiring a multi-disciplinary approach and extensive analysis.
Drive for Results	0 • 0 0 0	Works to exceed goals and partner with others to achieve objectives: • Plans based on past experience • Holds self and others responsible for results	This position provides technical support to ensure the constructions or renovations are completed on schedule and on budget. Site investigation should be completed as per property

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	Partners with groups to achieve outcomesAims to exceed expectations	managers' requirements.
Develop Networks	Works on maintaining close relations with all stakeholders: Identifies key stakeholder relationships Has contact with range of interested parties Actively incorporates needs of a broader group Influences others through communication techniques	This position works with and provide support to Project and Property Managers. It also communicates with consultants and contractors to exchange latest technology information.

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