

Public (when completed) Common Government

Update

Ministry					
Agriculture and Irr	igation				
Describe: Basic Job	Details				
Position					
Position ID			Position Name (30 characters)		
50000265			Dir, Natural Resource Innov		
Current Class					
Senior Manager (Zone 1)					
Job Focus			Supervisory Level		
Operations/Program	m		01 - Yes Supervisory		
Agency (ministry) code	Cost Centre	Program Code: (er	Program Code: (enter if required)		
CA02	600157				
Employee					
Employee Name (or Vaca	nt)				
Organizational Struc	cture				
Division, Branch/Unit					
Primary Agriculture	e, Natural Resource	Management	Current organizational chart attached?		
Supervisor's Position ID	Supervisor's Position Name (30 characters) Supervisor's Current Class				
05000021	ED, Natural Reso	ource Mgmt Br			
Design: Identify Job	Duties and Value				
Changes Since Last	Reviewed				
Date yyyy-mm-dd					
2018-04-25					
Responsibilities Added:					
			ne position added supervision of staff from the ormerly under the division's Environmental		
			subject-matter for the role.		
Sterrardship Branci		ige in scope of			
Responsibilities Removed					
Duties related to the doing of research were eliminated following workforce adjustments in 2019 and 2020. This included the management of the research and demonstration farm.					
Trins included the r	nanagement of the f	esearch and de	anonsu adon Tarm.		

Job Purpose and Organizational Context

Why the job exists:

Reporting to the Executive Director of the Natural Resource Management Branch, this position provides leadership and direction for employees in the Natural Resource Innovation Section at Lethbridge, Edmonton, and Brooks. The position also has responsibility for co-ordination of facilities management and occupational health and safety with Agriculture and Agri-Food Canada for Branch and other provincial employees at the Lethbridge Research and Development Centre. Support is

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also provided for provincial government policy development related to irrigation water management, land resource management, and surface and ground water quality. Alberta's agriculture industry depends on the continuing excellent quality of its surface and ground water for human and livestock consumption, safe crop production, and protection of aquatic ecosystems. The position will identify and assess emerging environmental threats to water quality, facilitate and support development and evaluation of innovative management systems to mitigate the risks, and position Alberta's agriculture industry to manage threats. The incumbent works with industry partners and other government agencies to support and facilitate scientific studies to develop, adapt, and demonstrate innovative irrigation management practices that increase on-farm water use efficiency, enhance irrigation water productivity and quality, and facilitate adaptation of new technologies. These projects facilitate the growth of the agriculture and agri-food industry and enhance environmental stewardship.

Responsibilities

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

- Provide leadership, direction, and technical expertise to support employees in the Natural Resource Innovation Section to conduct provincial government policy development related to water and land resource management.
 - Manage staff and resources within the Natural Resource Innovation Section at Lethbridge, Edmonton, and Brooks.
 - Complete action requests and other administrative functions on time and in compliance with Ministry and Government of Alberta policy and procedures.
 - Develop strategic and operational plans that are relevant and responsive to meet industry and stakeholder needs and meet the needs of the Minister.
 - Lead initiatives which result in and support enhanced policy development, facilitate the economic growth, productivity, and resilience of the agriculture and agri-food industry and enhance environmental stewardship.
 - Support cross-ministry initiatives in a timely and effective manner.
 - Develop and assess innovative agricultural tools and technologies and provide leadership and technical expertise to support economic growth, productivity, and resilience in Alberta's agriculture industry.
 - Lead implementation of the Sustainable Canadian Agricultural Partnership Water Program Onfarm Irrigation Efficiency stream to enhance energy and water-use efficiencies.
 - Contribute to development of a new five-year Agriculture Policy Framework, after the Sustainable Canadian Agricultural Partnership ends, and advocate for continuation of an Irrigation Efficiency Program in the suite of programs.
 - Support implementation of the irrigation industry Conservation, Efficiency and Productivity sector plan under the Water for Life Strategy and support implementation of the Alberta Irrigation Strategy.
 - Provide leadership and technical expertise to support implementation of the Land Use Framework (South Saskatchewan Regional Plan) and cumulative effects management (Environment and Protected Areas).
 - Ensure agricultural strategies, policies, and initiatives are aligned with Government of Alberta policies and priorities.
- 2. Develop and promote innovative irrigation management technologies and practices to increase water application and energy use efficiencies of irrigation systems.

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- Promote increased use of soil moisture or evapotranspiration-based methods to enhance onfarm water use efficiency and optimize beneficial use of water.
- Develop crop coefficients (daily water use curves) and irrigation management practices for new varieties of traditional crops and for new/emerging crops.
- Work with post-secondary institutions and industry partners to support and facilitate applied research for emerging irrigation technologies to optimize yield and crop quality and increase water-use efficiency for new varieties of traditional and for new/emerging crops.

Support and facilitate implementation of water, soil, air, and biodiversity beneficial management practices and targeted applied research for enhanced agricultural productivity.

- Maintain a list of accredited land classification consultants and a database of Level II land classification for irrigation reports prepared by private consultants.
- Provide technical expertise to Irrigation Council regarding land classification standards for irrigation to ensure appropriate use of the province's valuable land and water resources.
- Identify and assess emerging environmental threats to water quality, facilitate and support development and evaluation of innovative management systems to mitigate the risks, and position Alberta's agriculture industry to manage threats.
- Provide leadership and technical expertise to industry groups and research organizations to support them in planning for applied research to evaluate new technologies and management practices, to disseminate technology and innovation information that will enhance sustainable growth of the irrigation industry, and to measure adoption of these technologies and practices.
- Provide leadership and coaching to Section professional staff to support and facilitate applied research and demonstration projects to adapt new irrigation technologies, develop appropriate irrigation management practices, and evaluate best management practices for enhancement of surface and ground water quality.
- Provide support and oversight to Section professional and technical staff to prepare
 presentations, technical reports, journal papers, fact sheets, brochures, maps, and other
 educational materials to disseminate information on appropriate irrigation management
 practices, beneficial management practices, and geographic information system analyses.
- Provide technical expertise and complete the transfer of equipment to Lethbridge College for the research and demonstration farm
- Represent Agriculture and Irrigation as a board member of the Riparian Management Society (Cows and Fish).

4. Maintain a safe and positive work environment.

- Work with Agriculture and Agri-Food Canada to manage facilities in the provincial portion of the Lethbridge Research and Development Centre. This includes remaining the key contact with federal counterparts, maintaining a list of staff working in the facility, and ensuring that relevant information is disseminated to the appropriate people such as Government of Alberta facilities representatives, provincial tenants of the Lethbridge Research and Development Centre, and federal contacts.
- Provide leadership for the Joint Worksite Health and Safety Committee at the Lethbridge Research and Development Centre. This includes active participation in office building and shop inspections and attendance at quarterly meetings.

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- Complete duties as the Facility Emergency Response Coordinator for the Lethbridge Research and Development Centre, which includes ensuring that the Facility Emergency Response Plan remains up-to-date and in compliance with Government of Alberta policies and procedures, planning emergency training exercises, and responding to emergency situations.
- Ensure that new provincial tenants are aware of emergency procedures and their responsibilities to contribute to a safe and healthy workplace.
- Prepare hazard assessments and safe work procedures for duties relevant to Section staff.
- Provide employees with the equipment, computers, software, vehicles, communication tools, and technologies essential to do their work effectively and safely.
- Provide timely recognition for positive employee performance and contribute to positive workplace initiatives.
- Promote respect in the workplace, diversity and inclusion, and the Government of Alberta People Strategy.

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Problem Solving						
Typical problems solved:						
Limitations of available data	a/researc	h to support polic	cy positions;			
Types of guidance available for problen	n solving:					
Direct or indirect impacts of decisions:						
Robustness of policy options	provided	d to executive lea	dership and elected offic	ials		
└────Key Relationships						
Major stakeholders and purpose of inte	ractions:					
universities, Lethbridge Co Change Canada, irrigation the Water for Life goal tha economic development in the Alberta Land Stewards	districts t water is Alberta.	s, and Alberta's in s managed effect This position su	ndustry commodity grou tively to support compe pports the Water Act, th	ips. The position supports titive, sustainable		
Required Education, Experien	ice and Te	echnical Competer	ncies			
Education Level	Focus/Ma	•	2nd Major/Minor if applicable	Designation		
Bachelor's Degree (4 year)	Science	9		Other		
If other, specify:						
Designation as P.Ag. (Profes	sional Ag	rologist) is an ass	et			
Job-specific experience, technical comp	petencies, ce	ertification and/or training	j:			
Behavioral Competencies						
Pick 4-5 representative behavioral o	competenci	es and their level.				
Competency		Level A B C D E	Level Definition	Examples of how this level best represents the job		
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Benchmarks

List 1-2 potential comparable Government of Alberta: Benchmark

Section Head, Water for Life (EPA Benchmark M420-48) is an equivalent position.
Unit Leader, Statistics & Data Development (AGI Benchmark 420-12) is an equivalent position.
Other Senior Manager positions within the Natural Resource Management Branch are equivalent positions.

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DM Name

The signatures below indicate that all parties h required in the organization.	ave read and agree that the job	description accurately reflects the work assigned and
Employee Name	Date yyyy-mm-dd	Employee Signature
Supervisor / Manager Name	Date yyyy-mm-dd	Supervisor / Manager Signature
Director / Executive Director Name	Date yyyy-mm-dd	Director / Executive Director Signature
ADM Name	Date yyyy-mm-dd	ADM Signature

Date yyyy-mm-dd

DM Signature

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