

Looking for a career with purpose and passion?

Forest Modelling Analyst

Ministry of Environment
Prince Albert, SK



The Ministry of Environment takes a team-based approach to protecting Saskatchewan's environment for the wellbeing of the province, its people and its future. We use science-based solutions and environmental laws to help safeguard communities, and to protect our air, land, water and habitat. We are committed to high citizen and client satisfaction through workplace excellence, continuous improvement and innovation. Our leaders demonstrate the Government of Saskatchewan's commitment to ensuring workplace health and safety.

The Ministry of Environment, Forest Service Branch in Prince Albert, is seeking an innovative collaborator and experienced self-starter to join our forest management planning team as the **Forest Modelling Analyst**. Reporting to the Forest Management Planning Coordinator, within the Planning, Policy and Protection Unit, this position will conduct quantitative modelling and spatial, statistical and other computational analysis tasks to support examination of environmental and socio-economic outcomes related to forest resource use, caribou and sustainability.

This position will be responsible for all aspects of the wood supply modelling program including:

- Performing iterative model runs, and simulations;
- Assessing technical feasibility and providing alternatives for fulfilling analysis requests;
- Identifying, acquiring, and preparing spatial and non-spatial data for analysis;
- Engaging with internal and external technical experts to refine and validate analysis design, technical approaches, and results;
- Providing technical interpretation of results and preparing technical and non-technical reports, presentations, and data visualizations; and
- Communicating technical findings effectively to a broad range of audiences.

The successful candidate will have the demonstrated ability to independently, or within a team, research and develop clear and methodical analysis options for specific questions and select, adapt, and apply appropriate spatial analysis and modelling methods and software. You must also be able to identify, acquire, and prepare spatial and non-spatial data required for analysis and manage large/complex datasets using various data management tools; conduct spatial analysis of scenarios, and produce standardized spatially-based outputs (e.g., maps, animated simulations). You must be able to effectively communicate and present technical findings, verbally and in writing, to a broad range of audiences. You must also have the ability to independently organize, determine, adjust and prioritize duties to complete tasks and meet objectives in a continuously-changing environment.

The successful candidate will have knowledge of theory and principles of land and resource management, climate change resilience, natural disturbance, landscape ecology and cumulative effects. You will also have knowledge of statistical analysis and spatial and non-spatial modelling methods. Knowledge of spatial analysis, theory, techniques, and tools including geographic information systems (GIS) and geodatabase management is also required.

Typically, the **knowledge, skills and experience** required to be successful in this position would have been obtained through:

- A Master's degree in forestry, forest ecology, natural resource management or environmental science;
- Supported by educational experience in environmental modelling, geomatics, or other related field that required application of modelling and spatial analysis; and
- Significant work experience in developing and/or applying Woodstock and/or Patchworks modelling software.

Candidates with an undergraduate degree in a relevant field of study supported by at least 5 years of directly applicable work experience will also be considered. The successful candidate must be eligible for membership with the Association of Saskatchewan Forestry Professionals within two years of commencement.

To learn more about the Ministry of Environment, click [here](#).

The Government of Saskatchewan is committed to ensuring workplace health and safety. In our commitment to excellence we demonstrate innovation, collaboration and transparency, practice effective and accountable use of resources, and promote engagement and leadership at all levels.

Closing Date: August 25, 2021

Competition Number: ENV001993

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