



Hydrogeologist
Permanent, Full Time
Competition Number: 202202
BC Oil & Gas Commission: Kelowna, Victoria, Fort St. John**
OGC 4: \$113,821.53 - 130,612.94*
**Posted salary includes a JFMM Allowance of 27%*
***A Location Allowance of 3% will be added to Fort St. John*

The BC Oil and Gas Commission (Commission) is the provincial single-window regulatory agency with responsibilities for regulating oil and gas operations in British Columbia, including exploration, development, pipeline transportation and reclamation.

PURPOSE OF POSITION

The Hydrogeologist is the Commission's expert regarding applied hydrogeology and groundwater protection and management, providing professional expertise and support to staff, applicants, and other stakeholders. The Hydrogeologist represents the Commission in matters pertaining to the regulation of oil and gas activities and geothermal development under the Commission's mandate. The position supports various groundwater and aquifer quantity/quality management responsibilities, objectives, and initiatives under the Commission's mandate. These include review of technical reports for: groundwater licence applications; groundwater monitoring requirements; hydrogeological assessments; mitigation plans; base of usable groundwater assessments; gas migration assessments; and regional or baseline groundwater conditions. Additionally, the hydrogeologist participates in meetings with industry, professionals, First Nations, members of the public, government agencies, and research organizations and academia on relevant groundwater matters and initiatives.

SELECTION CRITERIA

Education:

- Degree in Geological Sciences or Engineering with Hydrogeology emphasis and at least seven years of progressive and varied experience in conducting groundwater investigations including aquifer characterization, conceptual model development, contamination assessments, well design and integrity, and groundwater geochemistry; preferably directly related to the oil and gas sector.
- Registered member in good standing or eligible for registration as a professional engineer (P. Eng.) or professional licensee engineering (P.L. Eng.) from the EGBC.

Experience:

- Review and interpretation of hydrogeological data related to groundwater quantity (use and availability) and quality.
- Sound knowledge of quantitative hydrogeology and practical application of geological and hydrogeological principles, techniques and field methods, and data collection standards and procedures.
- Knowledge of BC oil and gas industry, practices, and available data; preferably including knowledge of oil and gas well design, deep groundwater and reservoirs in Northeast BC, disposal/injection wells, and fugitive gas migration.
- Knowledge of the BC regulatory framework for groundwater management and protection including but not limited to the Water Sustainability Act, Oil and Gas Activities Act, Environmental Management Act, and associated regulations.
- Knowledge of water quality analytical parameters and experience with interpretation, including dissolved gases.
- Development and presentation of complex concepts in consultation and cooperation with other stakeholders.
- Knowledge of northeast BC geology and hydrogeology, and available relevant research, reports, and data.
- Demonstrated success in building effective working relationships with a broad spectrum of stakeholders such as representatives in the public sector, industry, First Nations, and landowner/community groups.

Effective January 10, 2022, employment with the Commission is conditional on employees being fully vaccinated against COVID-19 and providing proof of vaccination to the Commission upon request. If you are interested in applying for this role and meet the minimum selection criteria, please select "[Apply Now](#)" and submit your cover letter and resume prior to 11 PM **January 27, 2022**. Please note, applicants will only be contacted if they are selected to proceed further in the process. An eligibility list with a duration of 6 months may be established.

For More Information:

Recruitment 250-419-6609

POSITION TITLE	Hydrogeologist	POSITION #:	573655
DIVISION:	Applications & Operations	LOCATION:	Fort St John, Victoria, Kelowna
PROGRAM	Operational Policy & Environment	CLASSIFICATION	OGC 4
SUPERVISOR'S TITLE:	Supervisor, Environmental Stewardship	POSITION #:	573841
SUPERVISOR'S CLASSIFICATION:	OGC 5	LOCATION:	Fort St John

The BC Oil and Gas Commission (Commission) is an independent, single-window regulatory agency with responsibilities for regulating oil and gas operations in British Columbia, including exploration, development, pipeline transportation and reclamation.

The Commission's core roles include reviewing and assessing applications for industry activity, consulting with First Nations, ensuring industry complies with provincial legislation and cooperating with partner agencies. The public interest is protected through the objectives of ensuring public safety, protecting the environment, conserving petroleum resources and ensuring equitable participation in production.

JOB OVERVIEW

The Hydrogeologist is the Commission's expert regarding applied hydrogeology and groundwater protection and management, providing professional expertise and support to staff, applicants, and other stakeholders. The Hydrogeologist represents the Commission in matters pertaining to the regulation of oil and gas activities and geothermal development under the Commission's mandate. The position supports various groundwater and aquifer quantity/quality management responsibilities, objectives, and initiatives under the Commission's mandate. These include review of technical reports for: groundwater licence applications; groundwater monitoring requirements; hydrogeological assessments; mitigation plans; base of usable groundwater assessments; gas migration assessments; and regional or baseline groundwater conditions. Additionally, the hydrogeologist participates in meetings with industry, professionals, First Nations, members of the public, government agencies, and research organizations and academia on relevant groundwater matters and initiatives.

ACCOUNTABILITIES

- Provide recommendations and implement actions on processes and procedures essential to the Commission's role for protection and management of groundwater in relation to the Oil and Gas Activities Act, the Petroleum and Natural Gas Act, Water Sustainability Act, and other Acts and Regulations.
- Propose, lead and/or conduct hydrogeological investigations for the resolution of hydrogeological questions and complaints, including field- and office-based reviews and assessments.
- Provide expert advice and/or professional decision-support to the Permitting and Authorizations, Compliance and Enforcement, Engineering, or other Commission departments related to groundwater protection and use, including but not limited to advice on assessments, mitigation or remediation plans, monitoring programs and reports, base of usable groundwater, deep groundwater use, fugitive gas migration, oil and gas well integrity, and incidents.

- Maintain up to date knowledge respecting relevant science and technology advancements in hydrogeology and potential practical applications for regulation of oil and gas development in Northeast BC and other regions of the province.
- Support academic research pertinent to informing key groundwater issues or concerns relevant to the Commission's mandate.
- Maintain contact with or collaborate with other agencies, such as the Ministry of Environment, Ministry of Forests, Lands and Natural Resource Operations, Ministry of Energy Mines and Low Carbon Innovation, as required to manage or inform cross-agency responsibilities respecting groundwater protection and groundwater data collection and management.
- Leverage environmental data and/or support research or monitoring useful for informing the Commission's performance respecting groundwater protection and management.
- Manage questions, issues, and upgrades to the Commission's Groundwater Review Assistant module of the Northeast Water Tool.
- Assess, evaluate and interpret groundwater geochemistry and gas analyses, including gas isotope data, as required, for assessment of gas migration and fate in groundwater and emissions at surface.
- Provide expert information in response to internal inquiries from other branches, and in response to inquiries from other agencies, industry, First Nations, and the public.
- Communicate and collaborate with other Commission Environmental Stewardship subject matter experts in Hydrology, Agrology, Aquatic and Terrestrial Habitat, and Air Emissions on cross-disciplinary matters.
- Perform other related duties and assume new responsibilities as the Commission requires.

ORGANIZATION CHART

Commissioner, Chief Executive Officer

Executive Vice President, Chief Operating Officer

Vice President, Operational Policy & Environment

Executive Director, Resource Development & Environment

Supervisor, Environmental Stewardship

Hydrogeologist (Topic Position)

EDUCATION AND EXPERIENCE REQUIREMENTS

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KEY COMPETENCIES

Problem Solving: uses critical thinking skills to solve problems and achieve effective solutions.

Communication: consistently demonstrates excellent written and verbal communication skills.

Develop and Leverage Relationships: is the ability to build exceptional relationships using superior interpersonal skills to develop trust with diverse stakeholders and to facilitate productive working relationships.

Results Orientated: the ability to surpass a standard of excellence (striving for improvement, achievement, continuous improvement).

Process Improvement: proactively identifies process improvements and takes appropriate steps to implement them

December 17, 2021

DATE



Sean Curry, Vice President
Operational Policy & Environment