SENIOR OPTIMIZATION GEOLOGIST

BIRCHCLIFF ENERGY LTD

About Us:

Birchcliff Energy Ltd. is an intermediate oil and natural gas company based in Calgary, Alberta that is engaged in the business of exploring for, developing and producing natural gas and liquids. All of Birchcliff's assets are located in Alberta, where it is focused on the Montney/Doig Resource Play. Birchcliff's vision is to be an industry-leading producer of profitable and sustainable natural gas and liquids, with the objective of increasing shareholder value over the long-term. Birchcliff has a strong record of success, built on its core belief that outstanding people, combined with a great corporate culture, creates a winning environment. Birchcliff offers competitive compensation, stock options and benefits to its employees.

Birchcliff is seeking a well-rounded and energetic **Senior Optimization Geologist** to join the Geoscience team reporting directly to the Manager of Geology. The successful candidate will have specific skills and a track record in exploration, exploitation, development and acquisitions in the Western Canadian Sedimentary Basin. A key attribute required for this position is the experience and ability to work in a collaborative environment as the key facilitator of multidisciplinary integration, developing novel solutions for challenging problems with a drive toward continuous improvement. Building and maintaining 3D geocellular models will be a core technical responsibility in this role.

We thank all applicants, however, only those meeting the minimum academic and experience requirements will be considered and contacted for the position.

Responsibilities:

- Work closely with the subsurface team to ensure consistency and integration of all geologic, reservoir, diagnostic, and engineering datasets used for subsurface characterization.
- Leverage the advancement of subsurface understanding to optimize pad layouts and well designs across Birchcliff's assets.
- Build and maintain high quality 3D geocellular models by integrating all available geological, geophysical, petrophysical and engineering datasets. Supplement models with appropriate analogues and 3D structural interpretation.
- Support subsurface evaluation by building fit for purpose regional and pad scale geomodels to characterize and describe the Montney and other zones for uncertainty characterization, forecasting, simulation, development planning and other deliverables.
- Iterate the geocellular model with other team members to ensure that all subsurface understanding is adequately represented and improve our ability to predict production performance with both analytical machine learning models and physics-based flow simulation models.
- Deliver timely model updates that utilize the learnings from data analytics, simulations and development results.
- Provide integrated reservoir modeling support to enhance volumetric estimations and resource in place assessments, improve reservoir quality description calibrating to dynamic data, run sensitivities to predict impact of depletion and how to optimize production.
- Generate detailed documentation on workflows and best practices for knowledge sharing and assurance.

Qualifications:

- Bachelor of Science degree in Geology, Earth Science or related discipline is required.
- Professional Geologist/Geoscientist/Engineer designation from APEGA is required.
- 10+ years industry experience.
- Experience working with unconventional reservoirs, specifically the Montney/Doig Resource Play.
- Proven track record of executing integrated reservoir modeling workflows and applying learnings to resource development.
- Experience in well correlation, subsurface mapping, facies modelling, petrophysical analysis, seismic and 3D structural interpretation, reservoir fluid characterization, diagnostic integration and prospect evaluation as it applies to model construction.
- Strong competency in multivariable statistics, sampling, uncertainty and utilizing subsurface models to support data driven and physics-based models.
- High level proficiency with Petrel software.
- Knowledgeable in the areas of geomechanics and fracture simulators, reservoir engineering and reservoir simulators. With the experience and ability to build models that honor input data, match diagnostic and production data, as well as successfully predict future well performance.
- Spotfire and GeoGraphix experience is an asset.
- Database management and software coding (Python, R) considered an asset.
- Legally authorized to work in Canada without restrictions.

Attributes:

- Practical, results oriented, collaborative team player possessing the resolve and determination to advance ideas, balanced with the skill, patience and tactfulness to accomplish projects in a harmonious manner.
- Capacity to handle a large and varied work load with the skill to appropriately delegate, meet deadlines, and provide mentorship as needed.
- Can effectively balance autonomy and collaboration.
- Open to adopt new technology, and ideas that streamline work flows.
- Ability to present complex technical ideas, concepts, and opportunities to a range of audiences in a manner which is professional, confident, clear, and concise.
- Thrives in environments that present ambiguity and require effective decision-making with imperfect data.
- Capable of managing and independently prioritizing multiple projects on tight timelines in a fast-paced, team-oriented operational environment.
- Comfort and competence in dealing with the big picture as well as detailed specifics of a particular project.
- Knowledge seeker and attentive listener with a passion to learn, exchange ideas with team members and ability to see multiple perspectives.

Application Process:

Interested applicants who meet the criteria's outlined above are invited to submit their resume to careers@birchcliffenergy.com with the description "Senior Optimization Geologist" in the subject line of the email.