

Start something.

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Oil and Gas Research at UCalgary

UCalgary has a decades-long record of leading oil and gas research and innovation that supports the industry's growth and prosperity.

- 300+ UCalgary scholars from diverse disciplines are active in energy research and innovation, working towards industry solutions and creating new energy tech to help pave the way for industry to expand and develop new business opportunities, transforming the energy landscape. Research includes:
 - A new method for seismicity risk screening via diagnostic fracture injection test analysis.
 - Advancements in petroleum microbiology to aid industry operations, including reservoir souring control, microbial conversion of oil and gas, and oil and gas exploration bioindicators.
 - Enhanced assessment of geochemical processes impacting scaling in oil sands production wells.

UCalgary is translating lab-based tech innovations into practical applications and solutions.

- In collaboration with SAIT, UCalgary secured a \$75M Canada Excellence Research Excellence Fund grant to bring lab-based tech innovations to the field, targeting improvements in energy efficiency, economics, and environmental impact in areas like heavy oil and bitumen, tight oil and gas, and CO2 conversion.
- Collaborating with industry leaders on the Tight Oil Consortium, Consortium for Distributed and Passive Sensing, and Consortium for Research in Elastic Wave Exploration Seismology.

UCalgary contributes to Alberta's global leadership in hydrogen.

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- Dr. Ian Gates's research team out of the Schulich School of Engineering developed a large-scale economical method to extract hydrogen from oil sands reservoirs.
- Schulich's Dr. Mayank Sabharwal spearheads research and innovation efforts in hydrogen production and separation, storage, transportation, and use.

UCalgary is the top provider of skilled energy-sector graduates in Canada.

- By way of the Schulich School of Engineering and the Faculty of Science, UCalgary provides the largest talent pipeline of graduates.
- The Schulich School of Engineering has been working on a relaunch of the Oil and Gas Engineering program which will see a revised, modernized curriculum.
- Schulich also intends to create an energy-related professional graduate certificate, to reskill and upskill graduates from any engineering discipline.
- Our Engineering Transfer Program allows SAIT & NAIT graduates to combine an energy-related engineering technology diploma with a UCalgary engineering degree in as little as two years.

UCalgary's innovation ecosystem has supported the creation of spin-off companies that are making significant strides in both traditional and nextgeneration energy needs. Examples:

 PoMELO, a methane emissions management system for the upstream oil and gas sector, and Geogenomics, a provider of microbial surveillance solutions for the energy industry.

UCalgary supports and advances Alberta's oil and gas sector.