Oil and gas engineering focuses on finding innovative, economical and environmentally sustainable ways to explore, develop and produce oil and gas. The industry is growing and evolving and offers many exciting career opportunities.

Our school's location in Calgary, the energy capital of Canada, gives us strong connections to the oil and gas industry. Our professors understand the industry's needs and challenges, which means students graduate with knowledge and skills that are valuable and relevant, overseeing drilling operations, or designing hydrocarbon production and treatment facilities.

As an oil and gas engineer, your work could include evaluating reservoirs using reservoir description and modeling techniques, overseeing drilling operations, or designing hydrocarbon production and treatment facilities.

### Key Skills & Knowledge

- Knowledge of technologies specific to oil and gas exploration and production, geological principles, principles of energy and mass conservation, thermodynamics
- Critical thinking and complex problem solving
- Data analysis, evaluation and interpretation
- Oral and written communication skills
- Teamwork and project management

### Sample Job Titles

- Exploitation Engineer
- Facilities Engineer
- Field Engineer
- Integrity Engineer
- Mining Engineer

- Offshore Drilling Engineer
- Operations Engineer
- Petroleum Well Completion Engineer
- Petroleum Engineer
- Pipeline Engineer

- Process Engineer
- Production Engineer
- Project Engineer
- Research Engineer
- Reservoir Engineer

### Potential Industries

- Business
- Drilling
- Economics
- Engineering Consulting Firms
- Facilities

- Government
- Management
- Oil and Gas Exploration and Recovery
- Production
- Refined Products

- Research and Educational Institutions
- Reservoir
- Subsea Operations
- Transportation
- Well Logging or Testing Companies

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Formal Career Assessments like the Strong Interest Inventory and the Myers Briggs Type Indicator can be helpful tools for your career development. Request an assessment via CareerLink.
Associations provide an opportunity for continued professional development. Many also offer networking opportunities and other events for their members.

- Association of Professional Engineers and Geoscientists of Alberta (APEGA): [https://www.apega.ca/](https://www.apega.ca/)
- Canadian Heavy Oil Association (CHOA): [http://www.choa.ab.ca/](http://www.choa.ab.ca/)
- NACE: [http://www.nacecalgary.ca/](http://www.nacecalgary.ca/)
- American Society of Mechanical Engineers (ASME): [http://www.nacecalgary.ca/](http://www.nacecalgary.ca/)

**Career Services**

*YOUR FUTURE STARTS HERE*

- Career Planning
- Job Search Support
- Resume Reviews
- Career Workshops
- Online Job Postings
- Career Fairs
- Networking Events
- Information Sessions & much more!

**Connect with us:**

MacEwan Student Centre, Room 188
T: 403.220.8020
E: cstandnt@ucalgary.ca

CareerLink: [ucalgary.ca/careers](http://ucalgary.ca/careers)

- [Facebook](https://www.facebook.com/ucalgarycareers)
- [@HireUCalgary](https://twitter.com/HireUCalgary)

**Job Boards**

- [Indeed](https://ca.indeed.com/)
- [EngineerJobs.com](http://www.engineerjobs.com/)
- [EngineeringCareers.ca](http://www.engineeringcareers.ca)
- [Techjobs.ca](http://www.techjobs.ca)
- [OilFinity](http://www.oilfinity.com/)

**CareerLink:** [careerlink.ucalgary.ca](http://careerlink.ucalgary.ca)

**Minors**

- Minor in Entrepreneurship and Enterprise Development (MEED)
- Minor in Management and Society

**Student Clubs**

- Chemical and Oil & Gas Engineering Students’ Society (CESS): [http://www.ucalgary.ca/cess/](http://www.ucalgary.ca/cess/)

**Additional Resources**

Careers in Oil + Gas: [http://www.careersinoilandgas.com/](http://www.careersinoilandgas.com/)

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**Engineering Student Centre**

Engineering Block C 205
T: 403.220.5732
E: engginfo@ucalgary.ca

W: [http://schulich.ucalgary.ca/departments/chemical-and-petroleum-engineering](http://schulich.ucalgary.ca/departments/chemical-and-petroleum-engineering)

**Engineering Career Centre**

Engineering Block C 205
T: 403.220.3089
E: ecc@ucalgary.ca