



ENERGY SYSTEMS ENGINEERING

Our Energy Systems Engineering (ERSE) program offers you a one-of-a-kind opportunity to study a comprehensive energyrelated curriculum that is the first of its kind. Other programs under the title "Energy" mainly focus on sustainable energy engineering with limited additions of energy storage courses – the ERSE program offers the Petroleum Engineering, Sustainable Energy Engineering, and Energy Transportation and Storage options simultaneously. The multidisciplinary curricula will allow you the flexibility of switching among the three options or graduate with the skills in more than one discipline required in the energy industry.

Energy Systems Engineering is a new program that will be included in our next accreditation cycle with our other approved programs.

PROGRAMS

- Bachelor of Applied Science in Energy Systems Engineering
- Bachelor of Applied Science (Co-op) in Energy Systems Engineering
- Bachelor of Applied Science (Internship) in Energy Systems Engineering



LEARN BY DOING!

The ERSE program offers hands-on learning with real-world experience. Plus, you'll have access to hands-on laboratories and the opportunity to make close connections with dedicated instructors.

CO-OPERATIVE EDUCATION AND INTERNSHIPS

Earn while you learn! As an ERSE student, Co-op work placements allow you to earn between \$8,000 and \$13,000 per semester while gaining valuable real-world experience. Plus, after completing the required number of work terms, your degree will have a co-op designation.

HANDS-ON LABS

Crescent Point Petroleum Lab

• Future Sustainable Energy Lab

RESEARCH AREAS

During your studies, you'll have the opportunity to participate in cuttingedge research.

ENERGY SYSTEMS **ENGINEERING**

WHAT IS THE DIFFERENCE BETWEEN THE THREE STREAMS OF ERSE?

• The Petroleum Engineering option focuses on exploiting oil and gas resources.





- The Sustainable Energy Engineering option focuses on developing and enhancing the required clean energy technology.
- **POTENTIAL CAREERS:**

Petroleum Engineering Career

- Exploration engineer
- Well logging engineer
- Petrophysicist
- Drilling engineer
- Completions engineer
- Mud engineer
- Reservoir engineer
- Simulation engineer
- Well testing engineer

- Production engineer
- Stimulation engineer
- Operations engineer

Sustainable Energy

- Engineering Career
- Energy
- engineer • Energy systems
 - engineer Renewable energy project analyst
- Pipeline engineer

 Pipeline integrity engineer

· The Energy Transportation and

Storage option focuses on knowledge

and skills of safe, clean, and energy-

efficient transportation and storage.

- Pipeline project engineer
- Energy storage system analyst
- Process engineer
- Refining engineer
- Career Transportation
- engineer

Renewable

engineer

· Clean energy

marketing

· Power engineer

Sustainability

engineer

Field service

Transportation

and Storage

engineer

Energy

analyst

energy project

As an Energy Systems Engineer, you could potentially

make \$127,845 per year*!

*Based on the 2022 APEGS Salary Survey Summary Results. Visit https://www.apegs.ca/assets/apegs salary-survey-summary-results-corrected.pdf for more information.

SYSTEMS APPROACH

Our Systems Engineering approach combines classes in areas such as business, economic, social, environmental, and professional awareness and focuses on the range of skills you need to be a professional engineer in the modern world. Combining the human elements of engineering with the technical side prepares you to work in the broader context of multi-disciplinary, team design approach.







CONTACT U OF R ENGINEERING AND APPLIED SCIENCE FOR MORE INFORMATION ABOUT OUR FACULTY OR PROGRAMS:

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