MACPHAIL SCHOOL OF ENERGY

SCHOOL OVERVIEW

Diversification of energy is key to a sustainable future. Building off our strengths in oil and gas, SAIT will help shape next-generation energy while giving students the future-proof skills needed to empower future-ready energy.

From our programs to industry partnerships, SAIT is committed to championing change and leading the way towards energy sustainability.

EMPOWERING FUTURE-READY ENERGY

At SAIT, we're proud of our roots in oil and gas. We also know that sustainable energy and technology will be critical to energy security, economic growth and environmental sustainability as the world's population increases and demand for energy continues to rise.

As Canada's first school of energy, we're committed to advancing next-generation energy with future-ready learning options for all career stages.

Taught by industry experts, we bring together diverse disciplines to ensure that our graduates are equipped to create energy systems that optimize and connect all viable forms of energy in smart, responsible ways. Join us in tackling the most critical work of our time.

#ThinkBIG #ThinkDifferent

OUR HISTORY

Few know the ins and outs of Alberta's energy industry like Keith MacPhail (PT '81).

When SAIT's Energy department was renamed for MacPhail in 2005, it became Canada's first school of energy and the only academic school named after a SAIT graduate.

Today, the MacPhail School of Energy is embracing the integration of all viable forms of energy in smart, responsible ways.

One of the most important challenges of the 21st century is to accelerate the transition toward a low-carbon economy while continuing to provide vital energy resources to support economic growth.

Energy demand is expected to increase by as much as 50% over the next 30 years. This means we need to build on the significant innovations happening in the fossil fuels industries to reduce their environmental footprint and innovate to accelerate the viability and adoption of renewable energy sources.

Join us in tackling the most critical work of our time: empowering future-ready energy.

Focus on Sustainability
Focus on Environment

88% GRADUATE
EMPLOYMENT RATE

MEDIAN SALARY
$75,000 PER YEAR

PROGRAM OVERVIEW

MacPhail School of Energy is helping to shape and develop future-ready energy by offering diverse programming to help prepare for future integrated energy systems.

Electrical Programs

If you like to analyze, troubleshoot and create and have an aptitude for math and science, the electrical field is for you.

Petroleum Programs

The petroleum industry is vast, evolving quickly and remains a critical field globally.

If you have an aptitude for chemistry and physics, an interest in our vast natural resources, and want to get outside, you may want to drill into a career in petroleum.

Process Operations Programs

Taught by industry experts, our innovative process operations programs range from engineering technology to plant operations and water management.

Sustainability Programs

Our programs are designed to empower the next generation of environmental leaders with the knowledge, skills, and vision needed to address the pressing challenges of our world.

Instrumentation Programs

Whether you envision yourself designing state-of-the-art sensors, advancing automation processes, or pioneering breakthroughs in scientific instrumentation, our programs offer a dynamic and interdisciplinary approach to meet your aspirations.

CAREERS AND OPPORTUNITIES

Our graduates may work in the following occupations. Some careers require additional experience and education.

- Appliance Service Technician
- Electric Motor Systems Technician
- Electrical Engineering
- Electrician
- Petroleum Engineering
- Energy Asset Management
- Land Analyst
- Petroleum Engineering Technology
- Chemical Engineering Technology
- Power and Process Operations
- Power Engineering Technology
- Waste and Wastewater Treatment Operations
- Chemical Laboratory Technology
- Environmental Technology
- Integrated Water Management
- Instrumentation and Control Technician
- Instrumentation Engineering Technology

"Since the dawn of the industrial revolution, growth in economic prosperity has been closely correlated with a growing demand for energy. But the effects of CO_2 emissions on the environment are undeniable."

Dale Hansen
Associate Dean of MacPhail School of Energy

GET IN TOUCH

SAIT.ca/International
international@sait.ca

SAIT Southern Alberta Institute of Technology