



As part of the diversification and expansion of industry in Alberta, a strong Unmanned Vehicle Systems sector is emerging. This innovative technology is expected to grow tremendously in the coming years because of its wide-ranging applications for military and commercial use.

Unmanned Vehicle Systems (UVS)

Alberta is a Canadian leader in the development of unmanned vehicle technology. Companies in the province have expertise related to various facets of unmanned vehicle systems development, with especially strong skills in:

- Avionics navigation systems
- Control systems
- Global positioning systems
- Systems integration
- Wireless communications

For more information about UVS industry associations that Alberta is a part of, see:

- [Association for Unmanned Vehicle Systems International \(AUVSI\)](#)
- [Unmanned Vehicle Systems Canada \(UVS Canada\)](#)

Aerospace and Defence Educational Resources

Training and education are the keys to building and retaining a skilled aerospace workforce. Alberta's post-secondary education options in aerospace and defence are dispersed across the province and provide a full range of professional engineering programs. While currently lacking any specific aerospace engineering degree programs, the Universities of Alberta, Calgary and Lethbridge offer programs that benefit the sector, as do the province's Colleges:

The University of Alberta

The University of Alberta has a variety of institutions with aerospace and defence applications, including:

- The Institute for Space Science, Exploration and Technology
- The Canadian Center for Earth Observation (CEOS)
- The Alberta Ingenuity Center for Machine Learning, which can be applied to defence electronics
- Advanced robotics and tele-operation training through its electrical and computer engineering programs
- The National Institute for Nano-Technology
- The Center for Frontier Engineering Research (CFER)

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University of Calgary

The University of Calgary has expertise in space science, navigation and positioning and security and specializes in geomatics engineering, mechanical and manufacturing engineering and computer science. The University is home to:

- The Institute for Space Sciences in the Physics and Astronomy Department
- The Schulich School of Engineering (Geomatics)
- The Center for Information Security & Cryptology
- The iCORE Information Security Lab
- A Biometrics Lab

The DeVry Institute of Technology

The DeVry Institute of Technology in Calgary offers students an opportunity to participate in specialized robotics innovation and design training programs via applied research projects and international competitions. See:

- **Computer Engineering Technology (CET)**
- **Electronics Engineering Technology (EET)**

Art Smith Aero Centre for Training & Technology - SAIT (Calgary, Alberta)

In 2004, Southern Alberta Institute of Technology (SAIT) opened a new educational facility at the Calgary International Airport, the Art Smith Aero Centre for Training & Technology. The Centre features a 21,000 square foot hangar and several aircraft, including a 737.

SAIT offers three aviation-related training programs:

- Aircraft maintenance engineering technology
- Aircraft structures technician
- Avionics technology

SAIT also offers customized training for the aerospace industry.

Northern Alberta Institute of Technology - NAIT (Edmonton, Alberta)

NAIT provides educational and training programs for:

- Aircraft skin and structure repair
- Avionics engineering technology

Canadian Center for Unmanned Vehicle Systems (CCUVS)

CCUVS is working on offering training in robotics and unmanned vehicle systems, including air, ground, underwater and surface vehicles.

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