Alberta at the

2018 Farnborough International Air Show

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Located in Western Canada, the province of Alberta is a dynamic place to live and do business. As a known leader in responsible resource development across all sectors, the province is also showing leadership on the environment and in research and innovation. With a flexible capital market and a highly educated workforce, Alberta offers many opportunities for success.

Alberta will continue to strengthen and expand relationships with international partners by identifying new areas of collaboration that have potential to create more investment, jobs and revenue.

The Ministry of Economic Development and Trade provides leadership on the Government of Alberta’s economic growth and diversification efforts and manages the province’s network of international offices. Alberta representatives are available to discuss trade and investment opportunities, share market intelligence and help develop business contacts. Alberta operates a network of international offices in:

- Tokyo, Japan
- Singapore
- Taipei, Taiwan
- Beijing, China
- Shanghai, China
- Guangzhou, China
- Hong Kong
- Seoul, Korea
- New Delhi, India
- London, United Kingdom
- Mexico City, Mexico
- Washington, D.C., United States

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Alberta’s Aerospace and Defence Industry

Alberta’s diverse and competitive aerospace and defence sector continues to evolve and is highly regarded in the global aerospace industry. Alberta’s industry has strengths in the following areas:

- Robotics and Unmanned Vehicle Systems (UVS)
- Defence electronics
- Aerospace-based geomatics and scientific research
- Manufacturing, maintenance, repair and overhaul
- Logistic support to the military
- Air cargo logistics
- Aviation sector
- Helicopter sector
- Training and simulation

Robotics and Unmanned Vehicle Systems (UVS)

The strategic importance of this niche area continues to grow as technology advances beyond military use and into civilian, commercial and industrial applications. A key advantage in the industry is the Foremost UAS Range, Canada and Western North America’s first permanent restricted airspace for Unmanned Air Systems (UAS). The site is intended for UAS research and development, and test and evaluation for civil and commercial applications. With 700 square nautical miles of restricted airspace up to 18,000 feet above sea level, the Foremost UAS Range is ideally suited for Beyond Visual Line of Sight (BVLOS) Unmanned Air Vehicle (UAV) flight operations. The Foremost UAS Range will enable companies from Canada and abroad to develop the next generation of UAV systems and subsystems to address current and emerging needs of the oil and gas, agriculture, forestry, and environment sectors. Alberta has an application-rich environment, airspace and a cluster of innovative organizations involved in various aspects of the industry.

Defence Electronics

Alberta companies play a key role in manufacturing products for the global market and maintaining components of the Canadian Forces’ communications systems, software, specialized sensors and other electronic components used in military applications. Firms such as Peraton, Raytheon, General Dynamics have a presence in the province.
Aerospace-based Geomatics and Scientific Research
Alberta’s expertise in the areas of space physics, instrumentation, imaging and materials is unmatched in Canada. Alberta also has a prominent and growing number of companies involved in mapping and measuring our province through aerospace-based platforms.

Manufacturing, Maintenance, Repair and Overhaul
Alberta companies provide maintenance, repair, overhaul and modification of both military and commercial aircrafts. Alberta’s aerospace manufacturing is a high-tech industry that produces various components such as aircraft parts and engines.

Logistic Support to the Military
Four of the most important military bases in Canada are located in Alberta:
- Canadian Forces Base (CFB) Edmonton is home to the headquarters of both Land Force Western Area and Joint Task Force West;
- CFB Cold Lake is the Canadian premier fighter aircraft training facility;
- CFB Wainwright is the Canadian Army’s centre of excellence for training; and,
- CFB Suffield is one of the largest military training areas in the world.

Air Cargo Logistics
Alberta has a substantial and growing footprint in Air Cargo logistics with two Foreign Trade Zones located at international airports and planned inland ports for freight forwarding and distributions; a well-developed freight and small parcel distribution network; and state-of-the-art warehousing and distribution facilities. Targeted international air cargo routes are a significant development in growing market access between Asia, Europe, the Middle East and North America through Alberta.

Aviation Sector
Alberta is home to 420 of Canada’s 1,900 registered business aviation aircraft. Business aviation is a major contributor to Alberta’s economy, contributing $290 million to Alberta’s GDP and 2,560 full time jobs.
Headquartered in Calgary, Alberta, WestJet is considered one of Canada’s top employers and offers scheduled service to 100 destinations in North America, Central America, the Caribbean and Europe. Recently, WestJet teamed up with Alberta-based Clean Energy Technology Centre (CETC) to accelerate the development of sustainable aviation biofuel in Western Canada while also supporting the advancement of Jet Biofuels from forest residuals through the Green Aviation Research and Development Network.

**Helicopter Sector**
Alberta’s well-established helicopter industry specializes in providing flight training, maintenance, repair and operations, charters and fixed base operations for a wide variety of aviation rotary wing services to the commercial, corporate, industrial tourism and public sector applications in health, forestry, fire management and energy.

**Training and Simulation Sector**
Multiple simulators are positioned across the province in what is seen as a growing industry cluster. One such cluster is located in the Edmonton International Airport’s Cargo Village, the Alberta Aerospace and Technology Centre (AATC) houses Canadian North’s Level D Boeing 737 – Classic flight simulator which recreates all the visuals movement and sounds that are present during the operation of Boeing 737-300, -400, and -500 series aircraft; as well as Canadian Helicopters’ Airbus Helicopters AS350 Level 7 Flight Training Device, the first in Canada and one of only two in the world to count virtual flight hours logged as equivalents to hours logged in an actual helicopter. It has been approved by Transport Canada to replace in-aircraft training.

Viking Air’s Twin Otter Full Flight Simulator is located in Calgary. Air Spray, the world’s largest operator of the Electra, provides training on two simulators, including a mock up of an Electra cockpit at their Red Deer Facility. Alberta Health Services developed Canada’s first mobile flight simulation trailer which features
the fuselage of a King Air 200 aircraft mounted on hydraulics to simulate take-off and landing. The simulator complements existing training and gives trainees high fidelity, hands-on learning with the delivery of patient care.

Alberta continues to explore many new areas of interest, including how to take advantage of advances in aerospace and defence technologies such as space science and information management, simulation and training, remote sensing and big data analysis to address the needs of Alberta’s oil and gas, forestry, agriculture and healthcare industries.

For more information on the opportunities in Alberta’s innovative aerospace and defence industry, visit:
Find your investment opportunity in Alberta

Rich in natural and human resources and strategically located in western Canada, Alberta is a dynamic place to live and do business.

A global leader in responsible resource development across all sectors, Alberta’s reputation for expertise in aerospace and defence, information and communications technologies, clean tech and renewable energy is growing worldwide. With a flexible capital market, robust research and development system, and a highly educated, multilingual workforce, Alberta offers investors many opportunities to succeed.

Good connections
Alberta’s extensive air, rail, and road transportation links, infrastructure, and telecommunication networks make it a central, easily accessible North American hub for companies to do business.

Skilled and productive workforce
Alberta’s labour force of more than 2.4 million workers aged 15 and up is the youngest and most educated in Canada. Approximately 1.5 million workers are aged 25 and up and have post-secondary education.

World-class innovation system
Alberta’s investment in research and development is the highest in Canada. The province has 26 post-secondary institutions, internationally recognized research facilities, and a well-established, collaborative innovation pipeline linking research institutions to industry to support the development of new products, technologies and services.

Leading lifestyle
Canada is consistently ranked as one of the best countries to live in the world, and Alberta’s standard of living is one of best in Canada. A relaxed lifestyle, modern, friendly cities, and access to some of the planet’s most spectacular natural landscapes attract people from across the globe to live and work here.
Open for business
Global companies that locate here benefit from:

• A stable, investment-focused government
• Low corporate taxes and lower business costs than other regions
• No capital, payroll or provincial sales tax
• Highest productivity rates in Canada
• Competitively priced, readily available real estate
• Well-regulated banking and legal systems
• Fast growing, affluent communities

Concierge services for investors
Invest Alberta is your Government of Alberta connection to doing business in Alberta, Canada. Our team is ready to provide advice, information and assistance tailored to meet investors’ needs.

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Key Industry Events

Aerospace, Defence and Security Expo (ADSE)
August 9-10, 2018
Abbotsford, British Columbia
www.adse.ca

DEFSEC
September 5-7, 2018
Halifax, Nova Scotia
www.defsecatlantic.ca

TACWest 2018
September 18-20, 2018
Calgary, Alberta
www.tacwest.ca

GeoAlberta
October 29-31, 2018
Edmonton, Alberta
www.geoalberta.com

Unmanned Canada
October 30- November 1, 2018
Vancouver, British Columbia
www.unmannedsystems.ca

Canadian Helicopter Convention/ AGM
November 1-3, 2018
Vancouver, British Columbia
www.h-a-c.ca

Canadian Aerospace Summit
November 13-14, 2018
Ottawa, Ontario
www.aiac.ca/summit

ATAC 84th Canadian Aviation Conference and Tradeshow
November 13-14, 2018
Vancouver, British Columbia
www.atac.ca/web/en/

CONVERGX™
February 5-7, 2019
Calgary, Alberta
www.convergx.co

CANSEC
May 29-30, 2019
Ottawa, Ontario
www.defenceandsecurity.ca

WestDef
June 25-28, 2019
Calgary, Alberta
www.wcdia.com

Canada Business Aviation Association (CBAA) Convention and Exhibition
August 7-9, 2019
Abbotsford, British Columbia
www.cbaa-acaa.ca

Western Aircraft Maintenance Engineer Symposium
March 2019
Calgary, Alberta
www.wamea.com
Alberta-Europe Technology Collaboration Fund

The Alberta-Europe Technology Collaboration Fund is a multilateral program supported by the Government of Alberta and delivered by the German-Canadian Centre for Innovation and Research (GCCIR). Please note that, in this case, Europe includes the EU Member States, Switzerland, Norway, Iceland and the United Kingdom.

Goal
The goal of this program is to help participants become more globally competitive by developing technology and research-based alliances with the potential to foster increased international trade and economic growth. This includes:

- Connecting industry players and researchers across multiple jurisdictions.
- Development of new models of collaboration between Alberta and Europe that leverage key research and technology capabilities, address common priorities, and accelerate the commercialization of technology.
- Launching revolutionary product development and commercialization projects that aim to bring new products and services to market, and deliver economic benefits to citizens in both jurisdictions.
- Taking innovation through to market and commercialization.

Who can apply?
Alberta small and medium-sized enterprises (one to 499 employees and less than $50 million in gross revenue) are welcome to apply to this program.

The partner(s) from Europe can be a small or medium-sized enterprise, a larger company, and/or an independent research institution. All proposals to the program must involve a minimum of one industry partner from each jurisdiction with an interest in commercialization.

European partners should be prepared to apply in parallel for approximately matching funding from an appropriate national, regional, or European funding body. The GCCIR can provide some suggestions for funding options in the majority of eligible countries.
Eligible project sector
Projects in any sector with strong market potential are eligible for funding. Past projects have focused on:

• clean energy and environmental technology
• advanced materials (including micro/nanotechnology)
• industrial bio-technology
• health and medical technologies
• information and communications technology

Eligible project stage
• Applied research and development
• Proof of concept
• Prototype development
• Technology demonstration
• Product development

Project evaluation
All applications to the Alberta-Europe Technology Collaboration Fund will be peer-reviewed by a panel of external evaluators. This leads to a ranking of the applications. The final decision-making authority is the GCCIR Steering Committee.

Funding
The maximum project contribution by GCCIR is $250,000 CAD, which will be granted to the Albertan applicant. Funding for successful European partners will come from funding bodies in the applicants’ respective jurisdictions. Should the European company be too big to apply to their respective funding body, then the requirement for participation in the project is matching the amount of funding contributed by GCCIR. All funding sources must be disclosed.

Successful Albertan applicants will be required to matching the amount they are awarded in a combination of cash and in-kind contributions. This contribution reflects a meaningful collaboration and equal involvement of all partners. For the Albertan company, a minimum cash contribution of 20 per cent of the total Alberta budget is required.
Example:
- $250,000 CAD – Alberta-Europe Technology Collaboration Fund
- $100,000 CAD – cash contribution from Alberta company (minimum: 20 per cent of $500,000 CAD total Alberta budget for this example)
- $150,000 CAD – in-kind contribution from Alberta company
- $500,000 CAD for the total Alberta budget

**Eligible contribution costs**
The cash contribution is defined as new incremental costs. Eligible cash contributions include expenses for the direct costs of product development and achieving the objectives for which the grant was awarded (e.g. IP protection costs, incremental staff costs, equipment, tools, software, consultants).

Eligible in-kind contributions include non-monetary resources that the applicants provide to support the project. In-kind contributions can be management time or tools that a company already owns, specialized skills and advice, or access to special equipment, space or data sets. In-kind contributions will be recognized at fair market value. No funding will be granted for the duplication of infrastructure in either Alberta or Europe for the purpose of conducting a project.

Feel free to contact the GCCIR for further information on our funding programs, or for questions regarding the application process.

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Air Canada Cargo provides cargo services to more than 450 cities worldwide and offers shipping solutions tailored to specific commodities and time requirements. Hubs in Calgary, Toronto, Montreal, Vancouver, London and Frankfurt provide optimal global connections allowing for the convenient shipment of goods throughout our network. With a full offering of diverse shipping solutions tailored to specific commodities and time requirements, Air Canada Cargo meets the evolving needs of its freight-forwarding partners efficiently and cost-effectively.

Air Canada Cargo has been recognized by the members of the Canadian International Freight Forwarders Association (CIFFA) for Outstanding Community Contribution and Excellence in Innovation. It earned a Gold award at the Air Excellence Awards at the International Air Transport Association (IATA) World Cargo Symposium in 2014 in the up to 299,999 tonnes category, was the Diamond recipient in 2016 and recently earned the Gold award for 2017 in the less than 999,999 tonnes category.

Business objective
- Promote the Air Canada Cargo brand and increase market knowledge of our global network and how we can connect the world through Canada
- Arrange meetings with any company that requires air freight to move their products around the world

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AirMarket Inc. is an Alberta-based software and data company committed to increasing safety outcomes for the Unmanned Aerial Vehicle (UAV) industry. The AirMarket software platform provides business tools and a compliance framework for both recreational and commercial operators. As an industry leader, AirMarket delivers certified digital aviation data, engineered for the specific requirements of the UAV industry.

Empowered by our aviation datasets, AirMarket software tools enable professional operators to meet compliance standards of corporate, institutional and government stakeholders. AirMarket is strategically focused on delivering compliance assurance solutions that enable UAV industry adoption and growth.

AirMarket has assembled a management and advisory team of entrepreneurs with expertise in aviation, UAV flight operations, web design, branding, Geographic Information Systems (GIS)/mapping technologies, and community engagement.

**Business objective**
The ideal European partner(s) would have the capacity to integrate and demonstrate the AirMarket technology in commercial drone flight operations, within the context of a business solution.

Partners having established industry customers with business demand and/or delivering a drone-based business solution are highly desirable. A single partner or partnership consortium are both worth evaluating. Direct partnership with business customers or existing UAV/drone service providers are also options for consideration.

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Alberta Aerospace and Technology Centre

The Alberta Aerospace and Technology Centre (AATC) is a joint venture founded by Edmonton International Airport, Canadian North, Canadian Helicopters, Edmonton Economic Development Corporation and the Government of Alberta to build a cluster of activity in aerospace and technology around the airport.

Since its inception, the list of partners has grown to include almost a dozen organizations who offer flight simulation, manufacture innovative aviation technology, operate unmanned aerial vehicles at the airport, train truck drivers, test automated passenger vehicles, create low orbit satellites and much more. See our site below for a full list of partners.

Business objective
We are looking for partners to develop on-site, with multiple land options available.

Examples of target industries include aerospace manufacturing, drone tech, satellite tech, pilot training and agri-business.

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Alberta Aviation Council

Alberta Aviation Council (AAC) is the voice of aviation in Alberta. Our brand draws from our roots of blue skies and prairie fields that make up the Alberta air space. The crisp, modern graphics of the logo’s design embody the forward thinking vision that the AAC brings to the industry.

AAC members represent virtually every aspect of the aviation aerospace and airport business.

Our vision is to be a catalyst for industry growth and the recognized voice of aerospace, airport and aviation interests in Alberta.

Our mission is to promote the growth and prosperity of aerospace, airports and aviation in Alberta through collaboration, communication, training, education, research and advocacy.

Business objectives:
• Promote a safe and financially sustainable aerospace, airport and aviation industry in Alberta.
• Advise and assist government in understanding the requirements of the aerospace, airport and aviation industry in Alberta.
• Advocate with government on funding, policies, regulations and taxes.
• Be a focal point for the collection and distribution of information that will promote the growth and development of the aerospace, airport and aviation industry.
• Encourage the mutual awareness of the capabilities and responsibilities of association members.
• Provide training, education and support for the improvement of aerospace, airports and aviation in Alberta.

Contact
Bill Werny, Chair
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Alta Injection Molding (AIM) is a family group of companies in the plastics manufacturing industry. AIM is a custom Injection facility specializing in engineered resins. Alta Machining and Mold Design produces prototype and production molds with high precision machining to exacting tolerances for tooling and production parts. The other member of the family is MPak Plastics which manufactures flexible packaging. Together we operate in a combined 100,000 ft² facility located just north of Calgary in Airdrie Alberta.

Alta Injection Molding is a custom injection molder that specialises in injectable composites and engineered polymers. With a wide range of clients in all major industries from aerospace to electronic housing to construction this range on experience allows for diverse solutions. With an in-house design and engineering team and a full-service tool room, we can provide prototyping and full production capabilities. Our injection production runs 24 hours a day to provide the lean deliver our more than 400 clients who rely on us to keep costs competitive on a global market.

AIM is a controlled goods manufacturer and has clearance for all types of military and private project. The projects we work on are all proprietary and full confidentiality is respected.

With advanced 3D printing and part analysis, we can allow for quick turn around and cost-effective answers to meet the demands and needs of the market. The prototyping of new materials makes advancing new products or the conversion of existing products easier than ever before.

Intergrading predesigned features can save time and money down the line for assembly and production. Examples include wire channels and internal features to make the other internal components function safer and more stable. Advanced material options make one part become a whole line by utilizing various material that can meet different environmental and hazardous situations.

The family and team at Alta Injection Molding look forward to assisting your teams on getting a cost-effective engineered polymer solution.

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For more than 15 years, Amenaza’s SecurITree software has been used by the world’s leading aerospace organizations for anti-tamper analysis of high value military and civilian avionics. One major aerospace customer commented: “SecurITree continues to be the best available tool for security risk assessments on our military programs.”

Using SecurITree’s graphical interface, analysts create attack tree models of the asset they need to protect and define profiles for hostile threats to the system – adversaries such as state sponsored agencies, terrorists, competitors and malicious insiders. Attacks that are both feasible and desirable are deemed probable. Proposed countermeasures can be incorporated into the attack model to assess effectiveness before implementation.

SecurITree focuses on the future!

**Business objective**
Amenaza provides aerospace customers with the most sophisticated threat modeling software package available anywhere. Amenaza’s SecurITree attack-tree based threat analysis software greatly enhances and simplifies the anti-tamper analysis of avionics systems.

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Automated Aeronautics has been a pioneer in UAS Research and Development, advanced UAS training and data acquisition since 2014. We build environmental monitoring systems for small, unmanned aircraft platforms that detect, quantify and map airborne gases and particulates. We have provided UAS training to more than 200 scholars and practitioners in national and international levels and collaborated to develop custom sUAS solutions for oil and gas, construction and nuclear industries.

Automated Aero’s expertise lies in the dynamic combination of management, engineering design and implementation of advanced technological unmanned systems for a variety of industries and academic sectors. Our expert team of engineers, applied intelligence and unmanned system experts, UAS industrial project managers, scientists are ready to tackle even the most complex problems and infuse solutions with unique understandings and advanced approaches.

We actively participated in various research and development projects with academic and prestigious research institutions across Canada and the United States, including but not limited to, SAIT, University of Calgary, University of Royal Roads and NASA. Automated Aero’s team of specialists has been providing professional industry standard high-quality UAS based aerial, ground and underwater surveying, inspection, monitoring, data processing and computation to a variety of industries, governmental agencies and academic sectors.

Our team of experts have been leaders in data capturing methods, data processing, and integration of industrial data from project site to a number of platforms and software. We provide industrial standards and engineer 3D models and databases of project sites and inspected facilities and develop custom-based data compatibility and transformation protocols for processing between different industrial software such as AutoCAD, Pix4D, Revit, Navisworks, ArcGIS and many other industrial applications.

**Business objective**
Automated Aero has developed proprietary sensor Integration systems for sUAS. We are seeking to connect with: sensor manufacturers, sUAS manufacturers and sUAS service providers.

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Our vision at Avmax Group Inc. (Avmax) is to simplify our customers’ aviation needs through dependable, globally integrated services with trusted results.

Established in 1976, we have locations in Calgary (HQ), Vancouver and Winnipeg in Canada, Great Falls and Jacksonville in the U.S., Nairobi in Kenya and N’Djamena in Chad. Avmax offers the following capabilities: aircraft leasing, airline operations, avionics, component repairs, engine repairs, engineering, MRO, paint and spares.

Avmax’s engineering division is a Transport Canada authorized Design Approval Organization (DAO). Avmax’s maintenance divisions are Transport Canada Civil Aviation Administration (TCCA) and Federal Aviation Administration (FAA) authorized Maintenance Repair Organizations (MRO). Powering Simplicity in Aviation, Avmax takes on the work so you don’t have to.

We are a diverse company offering every product and service related to aviation. We have locations worldwide and offer solutions that are approved under TCCA, FAA, EASA and more. Ask us about our Bombardier recommended ADS-B Out solution and our LED Cabin Lighting solution.

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AVRO Aerospace

Established in 2012, AVRO Aerospace specializes in commercializing new products for the aerospace and defense industries. AVRO Aerospace and AVRO Aircraft Limited are both subsidiaries of Atlantis Research Labs Inc. and are based in Calgary, Alberta.

AVRO maintains a collaboration with the University of Calgary where it is currently involved in a multi-year development program with several international and military partners.

AVRO is focused on the development of advanced flight and propulsion capabilities – specifically in high-speed unmanned vehicles. The company’s mission is to establish Canada as a leader of high performance aerial vehicle innovation in the 21st century. AVRO holds several patents on novel designs in aerospace. Just as in the past, today’s AVRO is focused on developing new technology and bringing new capabilities to the marketplace. These capabilities include:

- Advanced propulsion and vehicle designs
- Subsonic and supersonic simulation
- Subsonic and supersonic prototyping
- Unmanned aerial vehicle fabrication
- High altitude and suborbital research
- Alberta based flight research center
- Public and private partnerships / collaborations

The development team at AVRO is comprised of private and academic professionals throughout Canada and specializes in the following areas:

- Suborbital research
- High Speed Sensors
- Air vehicles
  - Aerodynamic and CFD modelling
  - High-speed simulations
  - UAV / UCAV
  - SSTO air breathing vehicles
  - Rocket powered vehicles
  - Special vehicles (high speed / high altitude)
• Fuel and combustion research
  ∙ Jet propulsion
  ∙ Solid fuels
  ∙ Liquid fuels
  ∙ Hybrid motors
  ∙ Compressed gases
  ∙ High speed Combustion

Avro owns and operates a unique Canadian built aircraft. A Canadair CL41G jet trainer. The trainer offers extensive air capabilities for experiments, testing and analysis of new technology developed at Avro. The Canadair Air Lab is also available for use by authorized industry partners under our Flight Opportunities Program.

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Blackline Safety offers a full range of wirelessly-connected safety solutions for global industry. Exclusive cloud-hosted infrastructure ensures aerospace and aviation customers need not download any proprietary software. New PID sensors are now available with G7 portable safety devices and ideal for teams of people or lone workers in maintenance, repair, operations and/or manufacturing. Blackline Safety offers the world’s only ground-personnel safety system with interchangeable and configurable gas detection capabilities. Intrinsically safe and ISO-9001 certified. ATEX certified to standard EN 60079 and IEC 60079 for use in Zone 0 locations. All products are made in Canada. We have received the Red Dot Award from Germany for industrial design and the New Product of the Year Award from Occupational Health and Safety Magazine.

Our intent is to meet, speak and learn about the challenges, opportunities and potential collaborations between airline, aerospace and MRO service providers seeking improved on-the-ground safety systems with Blackline Safety and our Blackline Europe team based in the United Kingdom.

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Blue Sky Spectroscopy Inc.

We specialize in custom spectroscopic solutions from the mid- to far-infrared wavelengths (10-1000 microns). Examples of our work include:

- Optical ground segment test equipment for the SPIRE instrument on European Space Agency’s (ESA) Herschel Space observatory
- Sophisticated data processing and scientific analysis software for the SPIRE instrument on Herschel – the code met ESA’s stringent quality assurance standards with regards to design, documentation and validation
- Precision optical components for an instrument on a NASA ER-2 aircraft
- Diagnostic equipment for nuclear fusion reactors.

We have extensive experience in the technologies associated with the far-infrared including all aspects of cryogenic testing to sub-Kelvin temperatures. We have the capacity to measure the optical, thermal, electrical and mechanical properties of materials such as CFRP down to 4 K.

As a high-tech company with roots lie in space exploration, we seek opportunities to leverage our cutting-edge expertise in mid- to far-infrared spectroscopy by collaborating with partners on projects of mutual interest.

Subsector: Space astronomy, OGSE, data analysis

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www.blueskyspectroscopy.com
When you come to Calgary to set up or grow your business, you are becoming part of an amazing energy as powerful as our glorious Rockies. We are a community of highly collaborative entrepreneurs, creators and innovators that has what it takes to make great ideas happen.

With Canada’s lowest corporate taxes for small business, a young, highly educated and skilled population, and a business culture with a can-do-spirit, Calgary is undoubtedly the Canadian capital of entrepreneurialism.

The aerospace industry is a highly diverse sector that includes manufacturers and suppliers of aircraft and unmanned systems, and Calgary is well equipped to meet its needs.

Calgary companies have expertise in:

- Geospatial data collection and interpretation
- Navigation and communications equipment manufacturing
- Custom software / hardware development
- Manufacturing, maintenance, repair and overhaul

If you’re looking to lead your industry, revolutionize it, or find the talent to grow your business, there’s no better place than Calgary to do it. Our groundbreaking innovations and ideas are helping to solve global problems and carving new paths for like-minded change-makers to follow suit.

**Contact**

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YYC Calgary International Airport

YYC Calgary International Airport is Alberta’s passenger and air cargo gateway. As a hub that offers non-stop flights to 80 destinations in Canada and globally, YYC also connects visitors from around the world to Canada’s iconic Rocky Mountains and other landscapes. YYC welcomed record passenger volumes in 2017 with 16.3 million passengers.

Three-quarters of all air cargo in the province of Alberta moves through YYC Calgary International Airport, supported by dedicated cargo infrastructure on the airfield and extensive on-airport logistics and warehouse facilities.

YYC’s new international terminal, which opened in 2016, adds 24 additional aircraft gates and incorporates highly automated passenger check-in, arrivals and connections processes, as well as enhanced baggage handling. With significant additional capacity, YYC is ready to support the growth of its many airline partners.

Contact
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www.yyc.com
The Canadian Business Aviation Association (CBAA) has represented the business aviation community since 1961 promoting the safety, professionalism and value of business aviation as an economic enabler. With more than one-third of its members located in Alberta, these members are served by regional chapters in both Calgary and Edmonton and by its Ottawa head office.

Business aviation is an essential piece of Canada’s transportation infrastructure that:

- keeps essential Canadian production and infrastructure facilities operational
- transports workers and equipment to remote locations
- improves the effectiveness of supply chains
- improves the safety and security of employees, customers and property
- increases company and national productivity
- connects small and northern communities
- lowers out-of-pocket transportation costs for many businesses

**Business objective**

CBAA supports Alberta’s business aviation sector, a powerful engine that helps drive the province’s economy. Alberta is home to 420 of Canada’s 1,900 business aviation aircraft.

Annual impacts in Alberta:

- Economic output: $670 million
- GDP: $290 million
- Full-time jobs: 2,560
- Wages: $210 million
- Taxes: $80 million

**Contact**

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**Jody Weyman**, Chair, Calgary Chapter
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**Marty Hope**, Chair, Edmonton Chapter
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Canadian Helicopters

Canadian Helicopters is a provider of helicopter transportation and related support services. The company operates more than 100 helicopters to support offshore and onshore charter activities. Clients include multinational companies and government agencies in oil and gas, mineral exploration, military support, hydro and utilities, forest management, construction, air ambulance and search and rescue. Canadian Helicopters also provides third-party repair and maintenance services, and provides flight instruction through the internationally recognized HNZ Topflight advanced flight-training centre in Penticton, British Columbia.

Canadian Helicopters is a privately held company, employing approximately 500 personnel in 29 locations.

Business objective
- Provide Airbus AS350 simulator flight training, helicopter advanced flight training and helicopter repair and overhaul service to new customers in the global market.
- Explore opportunities for used helicopter sales and potential helicopter charter opportunities.

Contact
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Canadian North has provided safe, reliable and efficient passenger and cargo services for more than 80 years. Today, we are a crucial link between communities across Canada’s northern territories, through our southern gateways of Edmonton, Alberta and Ottawa, Ontario.

We are also the premier provider of air charter services for large resource sector clients requiring dependable, efficient and economical fly-in/fly-out charter services. Canadian North also provides charters for sports teams, cruise lines and other large groups across North America.

We operate our own “Level D” Boeing 737-300 full flight simulator within the Alberta Aerospace Technology Centre in Edmonton. This flight simulator is available for booking by airlines as a convenient and cost effective pilot training solution.

Our fleet of 17 aircraft includes the first 737-300 Combi aircraft in the world to be equipped with a moveable bulkhead, enabling it to accommodate varying combinations of passenger and cargo loads.

**Business objective**
We are seeking customers for Boeing 737 series 300/400/500 simulator training.

**Contact**
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[www.canadiannorth.com](http://www.canadiannorth.com)
Canadian UAVs Inc. (CUAVs), a division of Mountain View Helicopters and an integrated solutions provider of both manned and unmanned aerial vehicles (UAV). CUAVS provides low-cost surveillance, monitoring, training and reporting for commodity-based operations, utilities, forestry and real estate through UAVs. Canadian UAVs is the first and only mixed-aviation portfolio on the market and is dedicated to providing Transport Canada certified, military-grade UAV solutions to its customers.

Canadian UAVs has grown while maintaining the highest degree of aviation safety in the industry. In March 2017, Canadian UAVs became the first Canadian service provider to complete a beyond visual line-of-sight (BVLOS) oil and gas inspection, operating the Transport Canada compliant Lockheed Martin Indago 2.

With a competitive advantage through preferred partnerships with Lockheed Martin CDL Systems, Canadian UAVs is continually dedicated to offering military grade UAV solutions with the utmost level of safety and compliance.

While Canadian UAVs pushes toward commercially viable BVLOS products, foreign partnerships will ensure this technology is introduced into the market in a timely and safe manner. Foreign engagement will give Canadian UAVs the ability to expand into new markets while placing a high emphasis on UAV training and maintenance.

Contact

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Canadian Unmanned Inc.

Canadian Unmanned Inc. (CUI) is Canada’s most experienced Unmanned Air Vehicle (UAV) training provider that evolved from the Canadian Centre for Unmanned Vehicle Systems (CCUVS) and remains “Canada’s First Choice” in small UAV ground school training. CUI was the first UAV Training School in Canada to provided national training services since 2009.

Sterling Cripps, founder and Chief Instructor for CUI has successfully trained more than 2,000 UAV students and pilots, representing more than 350 businesses both large and small in the commercial sector over the past seven years. He continues to work closely with police departments and law enforcement agencies, having trained more than 250 uniformed personnel in this field representing more than 20 different departments.

CUI maintains a close working relationship with Transport Canada and Nav Canada to ensure civil and commercial UAV operators are up to date on regulations and are fully aware of the responsibilities as legitimate airspace users while operating drones. Sterling Cripps is Canada’s leading expert in the provision of small UAV ground school training and for the operation of complex Direct Target Drones.

**Canadian Unmanned Offers a Transport Canada (TP15263) Compliant 2.5 Day Ground School for civil and commercial operators, which covers the following topics:**

- Basic UAS “101”
- Canadian Air Law and Regulations (CAR’s)
- Aerodynamics
- Aviation charts and Canada flight supplement
- Aviation weather
- Special Flight Operating Certificates (SFOC)
- Most current rules and regulations pertaining to drone flights in Canada
- Communications: Industry Canada Restricted Operator License ROC (A)

Available Nationally, Coast to Coast, Over 2000 Students Successfully Trained!
**Business objective**
Canadian Unmanned is seeking to develop a partnership with global aviation authorities to create a template UAV training curriculum for the emerging small UAV Market. This template will be developed exclusively for European and global RPAS training market, which will echo the successful Transport Canada TP15263 – Knowledge Requirements for Pilots of Unmanned Air Vehicle Systems 25 kg or Less, Operating within Visual Line of Sight.

**Contact**

**Sterling Cripps,** President  
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C-FER works in partnership with industry to advance safety, environmental performance and efficiency.

We provide full-scale testing and specialized engineering consulting services from our world-class facilities in Edmonton, Alberta, Canada.

C-FER is a not-for-profit, fee-for-service subsidiary of Alberta Innovates.

**Equipment testing**
C-FER’s two large-scale testing labs can simulate virtually any operating environment to evaluate the performance of equipment systems and components. This can include applying load, pressure, temperature and chemical environments in complex combinations such as:
- Fatigue loading to evaluate crack growth in structural panels
- Salt fog environments
- Mapping strain in complex structures using Visual Image Correlation
- Multi-axis loading

Test setups and procedures are often custom developed with clients to meet specific needs including:
- Qualifying equipment systems for challenging operating environments
- Developing best practices to optimize equipment performance
- Investigating failures by reproducing problematic operating conditions

**Test apparatus set-up**
C-FER can assist equipment manufacturers in setting up their own, in-house testing systems to support new product development and quality assurance testing programs. This can include:
- Mechanical design
- Automation
- Instrumentation
- Procedure development

C-FER has certified LabView (from National Instruments) architects and developers on staff to develop robust, easy to use testing systems to suit our client’s needs.

**Contact**
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As part of the Edmonton Global team, the City of Leduc is strategically located for strategic businesses. Our competitive location at the crossroads of air, highway and rail transportation is strategic for companies operating in the City of Leduc, a growing city in the heart of Canada’s economic engine. It is located along the CANAMEX Trade Corridor (Highway 2) and Edmonton International Airport (EIA).

The City of Leduc is a dynamic centre of sustainable economic growth and a natural hub for globalization. Leduc is one of the most competitive and attractive markets to do business in the province. With a five-year average growth rate of 4.8 per cent, Leduc is the region’s fastest-growing community, with access to an ever-growing young and highly skilled workforce.

- The Leduc-Nisku Business Parks are Canada’s largest manufacturing and energy services parks.
- Home of the Leduc Food Processing Development Centre, the largest of its kind in North America.

The City of Leduc and Leduc County have partnered to develop Alberta Aerotropolis with the EIA, an initiative to further foster investment, development and job opportunities, while enhancing our existing clusters and diversifying Alberta’s economy. This joint endeavour will augment and support our existing businesses in the transportation and logistics, aerospace, value-added agri-business and energy sectors, including oil and gas supply and services.

Contact

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Cleo is a drone with a novel design that gives it unique flying capabilities. It is small enough to fit in a pocket and its hidden propellers make it safe to be used in confined spaces and around people. This makes it an ideal tool for indoor use for applications that include security, law enforcement, real estate, emergency response and inventory management. It is able to fly for 15 minutes and is equipped with a 4K camera and a night-vision camera. Cleo is also able to navigate autonomously around obstacles using advanced computer vision algorithms and sophisticated processors and sensors.

**Business objective**
Cleo Robotics is a technology company developing leading edge aerial robotics for indoor applications. We help law enforcement agencies gain valuable insight before confronting hostile indoor situations. We also work with security companies to improve their services and gains competitive advantage. Our goal is to expand our business outside of North America.

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[www.cleorobotics.com](http://www.cleorobotics.com)
Dakota Supplies Inc. (DSI) has developed revolutionary cleaning solutions for the commercial transportation industry. Having completed initial field trials with both major Canadian airlines, their product, MOPPITT™, is the first in a series of commercial cleaning systems targeted specifically at global airlines and – in the future – bus transportation, ambulances, trains and recreational vehicles (RVs).

**The industry need**
One of the most uncomfortable experiences airline passengers face is using a bathroom whilst in flight. Occupational Health and Safety requires that public bathrooms be cleaned regularly in a 24-hour period; however, there is little to no room onboard to store cleaning supplies. Flight attendants have no effective way to clean and sanitize bathrooms or galleys, other than throwing down paper towels on the floor and picking them up with rubber gloves or locking off bathrooms.

**MOPPITT – A revolutionary cleaning product**
DSI’s patented commercial cleaning product MOPPITT™ is an “all in one” lightweight mop with individual use cartridges housed within the casing, infused with Celeste Industries Aviation cleaning products. The MOPPITT™ can be used inflight or at the gate, and was designed specifically to address growing occupational health and safety concerns. This tool would allow airlines to provide their inflight crews increased customer service, improved flight attendant morale, lessen wear and tear on major airline assets, provide potential cost savings by reducing outsourcing of cleaning requirements, and help deliver quicker turnarounds when flight delays are experienced.

Dakota Supplies has partnered with Celeste Industries to distribute its product globally to commercial and charter airlines and various rail companies.

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Edmonton is an emerging leader in Canada’s advanced technology and aerospace industries with a supportive and robust environment that is primed for growth.

As the latest component of the Port Alberta strategy, the Alberta Aerospace and Technology Centre (AATC) has been established at the Edmonton International Airport as a hub of innovation and research, simulation and training and economic investment. As a leader in aviation training, the AATC has increased productivity in Alberta’s aerospace industry by reducing training costs and introducing new technology solutions to local companies. It has launched its Simulation Project – Phase 1 with the opening of two state-of-the-art flight simulators – a full-size Boeing 737 cockpit by Canadian North and a custom-built Airbus Helicopters AS350 Level 7 Flight Training Device (FTD) by HNZ Group.

Edmonton’s advanced technology and innovation landscape includes expertise in:

- Artificial intelligence and machine learning
  - Google’s DeepMind
  - Alberta Machine Intelligence Institute (AMII), ranked as the #2 institute in the world for AI and machine intelligence research
- Quantum computing
  - Industry leading companies, including Quantum Silicon Inc.
- Autonomous vehicles
  - Alberta Centre for Advanced MNT Products (ACAMP)
  - University of Alberta’s Centre for Smart Transportation, which is developing Canada’s first Connected Vehicle test bed and research circuit
- MEMs
  - Industry leading companies, including NORCADA
- Virtual Reality, Augmented Reality, Mixed Reality
  - Industry leading companies, including Serious Labs and Scope AR
- Academia and research
  - University of Alberta, with its top-100 ranked Engineering school
  - Northern Alberta Institute of Technology, with its state-of-the-art CAE Healthcare certified multi-disciplinary simulation centre

Contact

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Edmonton International Airport (EIA) drives the Edmonton Metro Region’s economic prosperity through aviation and commercial development, generating $3.22 billion in total economic output. In 2017, EIA served 7.8 million passengers and helped companies move goods safely and efficiently across the globe.

EIA’s rapid commercial development is also bringing together entertainment, retail, hospitality, cargo/logistics, bio-pharma, e-commerce, light manufacturing and many other industries on airport lands to create a cohesive, self-sustaining campus we call Airport City. New developments include the 100-store Premium Outlet Collection, Century Mile Race Track and Entertainment Centre and Aurora Sky, the world’s largest, most advanced medical cannabis production and distribution facility.

**Opportunities include:**
- Cargo: excellent tech stop alternative to anchorage – add freight to aircraft in YEG
- Passenger: long-haul international service – positioned on polar route
- Commercial development: retail, entertainment, logistics, freight forwarders, manufacturing, hospitality

**Contact**

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As a build-to-print manufacturer, Field Aviation specializes in the production of parts and spares for the international commercial and military aerospace industry. Field manufactures airframe parts and accessories for both current-production and out-of-production aircraft.

Working with aerospace-approved metals, our manufacturing processes include CNC routing, milling, turning and forming. We specialize in sheet metal details and assemblies, high-precision machining, TIG and spot welding and production of fabricated metal parts to OEM specifications.

We produce parts made from composite materials such as floor panels, bulkheads, avionics shelves and anything that is fiberglass.

As an accredited Approved Maintenance Organization, we have the capability to repair and overhaul aircraft components. These include landing gear, actuators, exhaust and duct repairs. We also have a full furnishings department that can overhaul seats, produce dress covers, cut and serge carpet and repair or manufacture cargo nets.

Field Aviation operates a NADCAP-approved state-of-the-art chemical processing line and heat-treating facility. We manufacture to OEM drawings, specification and standards, adhering to the same quality standard as the OEM. We are both Transport Canada and AS9100 approved.

**Business objective**

Field Aviation is currently looking to add new manufacturing clients and, with an additional 34,000 sq. ft. facility recently acquired, allows generous room for expansion. We currently manufacture parts for OEM clients such as Bombardier, Viking Air and Boeing and are interested in signing new worldwide clients.

Field Aviation is also comprised of two additional modification-based businesses – one located in Toronto, Ontario and one in Oklahoma City, Oklahoma.

**Contact**

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Located in Calgary, Alberta, FLYHT Aerospace Solution’s mission is to improve aviation safety, efficiency and profitability. Airlines, leasing companies, fractional owners and original equipment manufacturers have installed the Automated Flight Information Reporting System (AFIRS™) on their aircraft to capture, process and stream aircraft data with real-time alerts. AFIRS sends this information through satellite networks to the UpTime™ cloud-based data center, which provides aircraft operators with direct insight into the operational status and health of their aircraft and enables them to take corrective action to maintain the highest standard of operational control. AFIRS will meet airlines’ compliance with the ICAO GADSS flight following the mandate coming into effect in November 2018.

AFIRS is also an Aircraft Interface Device (AID) and can be connected to the flight deck either through a wired solution or through Bluetooth technology. Data can be accessed by airlines’ Electronic Flight Bag (EFB) applications.

**Business objective**
FLYHT is interested in meeting with airlines to explain the benefits of our technology. We want to hear more about the challenges airlines face in their airline operations and maintenance. We believe we can assist in solving their problems with real-time data.

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The Foremost UAS Test Range includes 700 square nautical miles of Class F Restricted airspace up to 18,000 feet above sea level for unmanned aerial systems (UAS) beyond visual line of sight (BVLOS) research and development and test and evaluation. With over 300 visual flight rules (VFR) days per year, long sight lines and an abundance of surface features (oil and gas infrastructure, power distribution lines, a road network and a variety of agricultural crops), the airspace is well-suited to BVLOS operations for large and small UAS including small multi-rotor aircraft. UAS flight operations originate from the airport at the edge of the airspace or from one of several sites within the airspace. The airport has two runways (3,000 ft. asphalt and 4,000 ft. turf) and a hangar large enough to accommodate up to medium altitude long endurance (MALE) sized UAVs. The Foremost UAS Test Range is ideally suited to BVLOS flight operations as well as development of payloads, communications and sense and avoid technologies.

Business objective
The mission of the Foremost UAS Test Range is to promote the sustained profitability of the unmanned systems sector by enabling BVLOS flight operations in a safe, easy to access, feature-rich location at relatively low cost. We are located a short, three-hour journey by road from the Calgary International Airport.

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Hone Virtual Education Ltd.

Hone empowers learners to perform optimally in high-stress environments. We accomplish this by combining psychology and technology to create and deliver highly immersive learning experiences. Practitioners are taught to manage the effects of their operating environment to effectively recognize cues, enabling effective decision-making and peak performance in life or death situations. Combining virtual reality (VR) and augmented reality (AR), artificial intelligence and biometrics, Hone is focused on improving situational awareness, stress management techniques and improving the way we care for practitioner mental health before and after experiencing post-traumatic stress disorder (PTSD).

Pushing the boundaries of technology, we are blending elements of future tech to improve practitioner performance. Utilizing mastery learning and deliberate practice, Hone engages learners in life-like environments with SMART learning objectives. Not only do users receive a life-like training experience that increases performance and decreases stress and cognitive load, but facilitators also have access to an entirely new array of datasets to help track and improve.

**Business objective**

Utilizing innovative technology to create and deliver highly immersive learning experiences that improve non-technical skills including situational awareness and cue recognition when performing in high-pressure and high-stress environments. We teach practitioners to manage the effects of their operating environment to effectively make decisions and perform at peak levels.

**Contact**

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Interface Fluidics Limited

Interface Fluidics is a laboratory service company providing fluid property analysis at high-temperatures and pressures on a proprietary micro-fluidic platform. Interface Fluidics’ service offerings span multiple industries and provide critical insights that inform data-driven decision-making. Through applying micro-fluidic technology, Interface is able to provide ten times the data points over ten-times faster compared to traditional methods. Services provided include:

- High-pressure, high-temperature viscosity measurement
- Chemical performance analysis
- Diffusion measurement and characterization
- Phase behaviour
- Fluid performance under micro-confinement

Contact
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Invest Medicine Hat helps new, expanding and relocating businesses access markets and business resources in Medicine Hat, Alberta.

- Medicine Hat is home to a growing aerospace industry clustered around access to Unmanned Aerial Systems (UAS) and live-fire restricted airspaces.
- Sixty kilometers northwest of Medicine Hat is the 2,700 square kilometer Canadian Forces Base Suffield restricted airspace with a surface-to-unlimited altitude designation and live-fire testing capabilities.
- The 2,400 square kilometer Foremost UAS Range is Western North America’s only beyond-visual-line-of-sight (BVLOS) testing range offering altitudes up to 18,000 feet above sea level. Foremost is located 100 kilometers southeast of Medicine Hat.
- Medicine Hat Regional Airport provides access to a large uncontrolled airspace, offering the perfect location for pilot training.
- Medicine Hat is home to unmanned target systems manufacturer QinetiQ Target Systems and fabricators with military and aerospace design experience.
- Medicine Hat offers aerospace companies access to an experienced talent pool, airspace assets, and global markets.

**Business objective**
Invest Medicine Hat is seeking partnerships with aerospace and advanced manufacturing companies who would benefit from the region’s beyond-visual-line-of-sight (BVLOS) and live-fire restricted airspaces and experienced fabricators and manufacturers.

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We are a software engineering firm specializing in the development of control station software for operating unmanned vehicle systems. Once a small technology start-up, we have grown into a 60-employee enterprise with offices in Calgary, Alberta and Huntsville, Alabama.

We have developed standards-based and commercial off-the-shelf software products that have been integrated by our customers into ground control systems for more than 30 unmanned vehicle platforms. Our clients include the U.S. Army, the U.K. Army and the Canadian Army. Our software has seen over 1.2 million hours of operational use in theatre.

The future of unmanned systems is in allowing machines to learn their surroundings and make decisions. We are pioneering new developments in this field to create real-time 3D reconstructions, GPS denied vision-based positioning and discover how environments change day over day. Our software is applicable to both military and commercial applications worldwide.

**Business objective**

Lockheed Martin is looking to connect with the following:

- Buyers of mini-UAV quadrotors for both civil and military use
- Providers of unmanned aircraft who are looking for ground control station software and/or data analytics capabilities
- Government representatives accountable for UAV acquisitions

**Contact**

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Lumiant Corporation is at the forefront of the revolution now underway in the world of material science. At Lumiant, we are dedicated to the rapid development, production and commercialization of new materials that possess specific, preconceived and extraordinary properties.

Rather than just discovering or inventing new materials through trial and error and with yet-to-be realized characteristics, Lumiant employs a rational material design methodology, and works with customers and other stakeholders to create new materials with the properties industry needs.

TitanMade® L465 is a highly advanced and patent-pending titanium ceramic composite material, ideally suited for ballistic armour applications where weight and thickness are of critical importance.

Depending on the threat level specified, integrating TitanMade ballistic tile can reduce the areal density of an armour solution by 20 to 30 per cent when compared with alumina – but at lower cost than silicon carbide or boron carbide.

The superior performance of TitanMade is the result of a five-year intensive research and development effort, and the development of advanced technology for the production of full-density in-situ composite materials with uniformly distributed and discontinuous reinforcement phases.

Compared with alumina, TitanMade has 2-3 times the flexural strength and fracture toughness. The result is a material with greater ballistic efficiency, which translates to less material required, less weight and thinner armour.

Business objective
Organizations that will be interested in TitanMade® L465 are vehicle, aircraft and ship armour manufacturers as well as platform OEMs that develop and manufacture armour systems.

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Micro Engineering Tech Inc. (METI) is a fast-growing manufacturer of the Micro Trusted Navigator (MTN) navigation system – a small, high-performance and innovative micro-electro mechanical system (MEMS)-based navigation solution. METI's headquarters are based in Calgary, Alberta.

Based on the state-of-the-art MEMS technology, this lightweight sensor (50 grams) includes three gyroscopes, one magnetometer, three accelerometers and one barometer. Running an advanced Kalman filter, the MTN provides accurate orientation data in both static and dynamic conditions.

Our sensors are ideal for defence and commercial applications, such as unmanned systems, mobile mapping, vehicle and machine navigation and train applications.

METI provides customized navigation solutions and services, including hardware and software development and design – from concept to production – that gives system integrators and manufacturers the competitive edge.

Contact
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Panvion Technology Corp

Panvion is an Alberta-based company focusing exclusively on creating unique advanced airborne sensors that provide wide-area oblique coverage and high-resolution imagery for surveillance and remote sensing applications. The scanning sensors make it possible to cover over ten-times more ground area than any other system. This translates into savings in flight cost, earlier mission completion and shorter acquisition time reducing potential platform threat exposure.

Panvion’s airborne oblique and nadir sensors are configured for search and rescue operations, intelligence, surveillance and reconnaissance (ISR) and in civilian applications such as photogrammetry, agriculture for plant health, and forestry for tree species identification. The sensors are also optimized for the creation of Dense Stereo Models. Platforms from UAVs, helicopters and high-altitude manned aircraft can accommodate the lightweight and powerful sensors. Panvion’s sensors cover spectral bands from the ultraviolet, visible, NIR, SWIR and thermal infrared, using fast-acting innovative scanning optics.

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QinetiQ Target Systems

Based in Medicine Hat, Alberta, Canada and Ashford, Kent, United Kingdom, QinetiQ Target Systems provides world-leading unmanned aerial, marine and ground targets, scoring systems, payloads and special mission vehicles for weapon simulation and training programs.

For more than 40 years, QinetiQ Target Systems and its antecedents has manufactured more than 10,000 unmanned vehicles, in service in more than 40 countries, including 15 NATO customers.

Products and services
QinetiQ Target Systems offers a wide variety of unique and highly advanced training products and services based on unmanned aerial, ground and surface vehicle targets. Our solutions are specifically tailored to our customers’ training and test and evaluation objectives and are designed to achieve the required balance of cost and threat fidelity.

We have a long history producing world-leading target command and control systems, scoring equipment and instrumentation to augment targets. We are recognized by the global defence industry for UAV surveillance support services, with a highly successful track record on a variety of major unmanned vehicle programs.

Contact
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www.QinetiQ.com
SAM Inc.

SAM uses artificial intelligence (AI) to detect emergency and disruptive events globally based on social media chatter, photos and videos, providing users with alerts and monitoring of business critical events such as explosion, power outage, shooting or crash.

SAM has accumulated the world’s largest verified proprietary database of eyewitness social media posts from nearly every breaking news or security incident in the world over the last four years.

Our solution represents significant innovation over traditional, human-powered tools (ie. newsfeeds, Twitter keyword searches), which utilize human analysts to perform the work our AI now does with both increased speed and accuracy. For the aerospace industry, this tool has application as a corporate security tool as well as a global monitoring and alerts tool for airlines.

**Business objective**

SAM Inc. is currently in beta testing and offering trial access. Any organization with global assets (employees, infrastructure) or which is disrupted by events such as crash, terrorist attacks or natural disaster can visit our website, www.samdesk.io, to sign up.

**Contact**

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www.samdesk.io
Space Engine Systems (SES) is designing and developing air-breathing engines for supersonic aerospace and space applications using off-the-shelf turbojet engines. The DASS GN1 engine is designed for revolutionary aerospace travel, and the DASS GNX engine will provide extremely efficient propulsion for Single-Stage-To-Orbit (SSTO) vehicles. Our full-scale testing demonstrating SES’ innovative technologies will be completed by Q3 2018. SES is developing a first-of-its-kind multi-fuel testing facility to demonstrate enhanced combustion within DASS engines. Space Engine Systems is primed to become a leading supplier of air-breathing propulsion systems for SSTO vehicles and supersonic/hypersonic applications, i.e. transport, hypersonic missiles and vehicles.

Space Engine Systems has developed an innovative heat exchanger for use in the DASS engines and other technologies. The heat exchanger is made up of many tightly wound tubing modules with liquid hydrogen and nanoparticle coolant. SES is manufacturing heat exchangers using advanced vacuum brazing methods and metal additive manufacturing, a groundbreaking new manufacturing method.

**Contact**

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www.spaceenginesystems.com
Sprung Structures

Sprung Structures is the inventor of the stressed membrane structure, engineered to accommodate the world’s need for enclosed space quickly and economically. This innovative building solution utilizes architectural membrane panels placed under high tension within a non-corroding aluminum substructure. Sprung provides an optional superior performing energy efficient Johns Manville formaldehyde-free insulation package. The benefits of Sprung structures include: speed of erection, flexibility of use, limited foundation requirements and lower overall project costs. Applications include aircraft hangars, warehousing, cargo sort facilities, emergency vehicle storage and connecting corridors. Sprung structures are engineered to meet or exceed the requirements of most building codes and standards.

Sprung Structures has achieved international recognition by providing shelter solutions for thousands of different applications in more than 100 countries throughout the world.

Business objective
Sprung is interested in speaking with MRO and airport operators who are looking to expand and require structures for any of the above mentioned applications. Sprung can supply structures immediately from inventory and structures can be erected up to 175 square metres per day.

Contact
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www.sprung.com
The members of the Stonecracker Scientific Legal Network are the only law firms in the world that practice research and development tax credit claim preparation. We are a team of lawyers working alongside highly qualified engineers, scientists, technical and finance/tax experts who thrive on complex R&D tax problems, scenarios and situations that few preparers can comfortably handle.

We will quickly and effectively identify areas where you can apply for R&D tax credits, the necessary conditions to meet, which costs can be claimed, how to claim and whether you are eligible for tax relief/tax credits.

Founded in 2004, we have helped to deliver millions of dollars of successful R&D claims to Canadian and U.K. companies in the aerospace, defence and security industry.

We do not replace your company’s current counsel or tax preparer, but rather work closely with them, ensuring everyone’s expertise is utilized to maximize your tax credit.

Contact

Kevin K. Wong, Solicitor  
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kwong@stonecracker.com  
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Sullivan Machine Works

Sullivan Machine Works is a computer numerical control (CNC) manufacturer of small complex components serving high-tech customers in aerospace, energy, transportation and consumer products.

We operate an ISO9001:2015 accredited quality management system (QMS) and are always taking on new challenges in advanced manufacturing and technology. We strive to be competitive on a global level by adopting the latest automation and machining technology.

Business objective
We wish to find new customers in Europe in the aerospace, defence and space systems market who require reliable precision manufactured components or assemblies.

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As a non-profit innovation support centre located in Calgary, Alberta, TECTERRA contributes to the economic growth of Alberta and Canada by investing in and supporting the development and commercialization of geospatial technologies.

Our organization’s objective is to generate a positive impact on the economic activity, job market, infrastructure and ultimately the prosperity of Canadians.

Since 2009, TECTERRA has become the hub for the commercialization of geospatial technology, and has invested in 234 small and medium enterprises (SMEs), including 97 startups, through our core funding programs:

- **BUILD Program** – Providing zero interest, contingent loans for the development and commercialization of innovative geospatial technologies
- **HIRE Program** – A grant program that de-risks the hiring of needed business and technical professionals
- **SHOW Program** – A grant program that enables small companies to get in front of clients by attending conferences and tradeshows
- **GROW Program** - A grant program that engages companies with experts allowing them to grow their capacity

Additionally, TECTERRA provides access to state-of-the-art equipment – through our GeoSpace – for use by companies engaged in the research and development of emerging geospatial technologies.

TECTERRA also supports the commercialization of Canadian technology into new markets by facilitating international networking events. These events provide opportunities for Canadian SMEs to meet with potential clients, distributors and technology partners, providing them with a better understanding of international markets.

**Contact:**

**Andrew House**, Director of Commercialization Programs
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University of Calgary

The University of Calgary is one of Canada’s top comprehensive research universities, located in the city of Calgary, energy capital of Canada. The University of Calgary has significant capabilities in aerospace and defence-related research in close collaboration with industry, academia and government agencies.

Academics specializing in control algorithms for unmanned aerial vehicles (UAV), navigation and integrated sensor systems, high-speed aerodynamics and propulsion, fabrication and test of novel UAV designs, computational fluid dynamics and fluid-structure interaction, regularly collaborate with organizations such as NASA, AFOSR, DLR, Pratt and Whitney Canada, Lockheed Martin, Atlantis Research Labs and more. The university has highly unique experimental facilities, including Rothney Advanced Propulsion Technology research laboratory, high-speed aerodynamics and energy research laboratory, autonomous reconfigurable/robotic systems laboratory, geospatial vision metrology laboratory and in close proximity to two specialized UAV test ranges: Foremost UAS Range and Defense Research and Development Canada (DRDC) in Suffield, Alberta. In addition, the University of Calgary has excellent government leveraging of research funding to support collaboration with industries.

Business objective
Establish new collaborations with industrial, academic and governmental organizations in aerospace-related areas, including unmanned vehicles and space technologies.

Contact
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Unmanned Systems Canada is the focal point for unmanned vehicle systems community in Canada. We strive to achieve leadership in research, development, application and operations.

Business objective

• To represent the interests of the unmanned vehicle systems community, including industry, academia, government, military and other interested persons.
• To promote public awareness, education and appreciation for the Canadian unmanned vehicle systems community to itself, to Canadians and worldwide.
• To provide a single voice for the Canadian unmanned systems community.
• To promote and facilitate the growth of the Canadian unmanned vehicle systems community through education, advocacy and exchange of ideas and technologies.

Contact

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Viking Air Limited

Viking Air Limited is a world-class aerospace company and manufacturer of the Twin Otter Series 400, the best-selling 19-passenger aircraft available today. To date, Viking production Series 400 Twin Otter aircraft have been exported to 30 countries worldwide.

In 2016, Viking acquired Bombardier’s Amphibious Aircraft program, including transfer of the Type Certificates for the CL-415 water bomber and its CL-215/-215T predecessors to Viking. The acquisition also transferred product support responsibility for the fleet of 170 in-service water bombers worldwide.

In addition to the water bomber variants, Viking is the OEM for the legacy fleet of De Havilland Canada aircraft, fully supporting global operators with factory new parts, in-service engineering, field service support and warranty administration.

Viking services a wide-ranging customer base from its aircraft manufacturing, maintenance and modification facility at Victoria International Airport and a second aircraft assembly facility at Calgary International Airport. Viking employs 430 personnel between the two Canadian facilities.

Business objective
Viking Air Limited, a Canadian OEM of versatile utility turboprop aircraft, is looking to connect with prospective customers interested in aerial firefighting, surveillance, environmental monitoring, industrial support, or 19-passenger regional commuter aircraft operations.

Contact
Robert Mauracher, Executive Vice President, Sales and Marketing
David Heath, Director, International Marketing and USA and European Sales
Peter Walker, Regional Sales Director, Middle East, Africa, and Asia Pacific
David Caporali, Regional Sales Director, Latin America
Konstantin Barabash, Regional Sales Director, Russia and CIS
Yili (Tony) Cao, Chief Representative, China

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VizworX Inc.

VizworX is a Calgary-based software engineering company specializing in data visualization, artificial reality, augmented reality, artificial/augmented intelligence and biometric sensor fusion.

VizworX has the capacity to revolutionize the way in which organizations or companies engage with their data and problem-solve in ways that have only been dreamed of. Our core competency lies in unlocking the power of visual data, allowing clients to manipulate it and see how things could work or work differently with a different approach. To provide this capability, VizworX integrates sophisticated technology with the psychology behind how people absorb information.

VizworX capabilities include building applications that leverage virtual reality (VR) and augmented reality (AR), data visualization, and mobile and web app development. Our Panoptica product takes a standard 3D design model and converts it to a universal format that automatically situates the model in the same virtual location in time/space so that it can be universally accessible by VR, AR and tablet-based AR users at the same time, regardless of location. Our Biometric Sensor Fusion Analytics are used in products that provide Automated Crowd Threat Detection (ACTD), as well as tools like our Training Effectiveness Evaluation System (TEES) that can sense the trainee’s level of engagement with the training material.

In addition to our products, VizworX is a trusted defence partner, providing research and development, product commercialization and other important services to our customers.

Objective

VizworX seeks to connect with defence and security companies for further collaborative development and customization of our products for European markets, European sales and marketing (and reciprocal co-marketing of their products in North America), incorporating artificial/augmented intelligence, biometrics and augmented and virtual reality into their products.

Contact

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The VR/AR Association

The VR/AR Association is a global organization designed to foster collaboration between innovative companies and consumers in the virtual reality and augmented reality ecosystems. The association is founded on the principles of accelerating growth, fostering research and education, contributing to the development of industry standards, connecting member organizations and promoting the services of member companies.

The Alberta chapter opened recently and is one of 54 around the world. The Alberta chapter has 12 member organizations. Alberta organizations have strengths and capabilities are in training and simulation, cognitive performance enhancement, data visualization solutions, and augmenting workflow and tasks, many of which align with the aerospace and defence industry.

The Lethbridge College is evolving into a center of excellence in the virtual and augmented reality realm. Recently the college hosted the world’s first all-day VR/AR conference held entirely in VR. Lethbridge College is delivering creative and innovative educational solutions in this sector within the province.

Contact
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WÄVv specializes in business expansion, improvement and development for clients in the aerospace, defence, security and energy sectors. Comprehensive and custom solutions to meet your business needs is WÄVv’s expertise. The firm provides professional advice to companies expanding their reach within their current industry or into the expansion of new market ventures. WÄVv provides guidance in the areas of facilitation, analysis, and strategic direction spanning across multiple industries and regions.

WÄVv is also the founder and producer of the ConvergX™ series of conferences that aim to connect the aerospace, defence and security and energy industries during a two day conference:

CONVERGX™ – The Future of Aerospace, Defence, Security and Energy Conference
Where Industry Lines Disappear
February 5-7, 2019
Calgary, Alberta, Canada
www.convergx.co

Strategic solutions include:
- Adjacent market development
- Business development strategy
- Organisation of private trade mission
- Public relations
- Business event services
- Trade show reconnaissance
- Corporate expansion to new jurisdictions
- Company branding

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The Western Aircraft Maintenance Engineers Association (WAMEA) is a professional organization that promotes and lobbies on behalf of aircraft maintenance engineers in Western Canada operating under the auspices of the federal national body, Canadian Aviation Federation of AME Associations.

Our members are highly trained and accredited (through an AME license) by Transport Canada. Our AMEs have a great deal of technical skill, hands on ability and relevant knowledge, which they contribute greatly to highly marketable intellectual property.

Alberta has the capacity to cater to international maintenance, repair and overhaul (MRO) operators and manufacturers. Several approved maintenance operations in the area provide a great array of products and services for this industry.

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President@WAMEA.com
wamea.com
Western Canadian Defence Industries Association

The Western Canadian Defence Industries Association (WCDIA) is a regional not-for-profit industry association representing more than 250 companies, academia and government agencies. We have membership from across British Columbia, Alberta, Saskatchewan and Manitoba, and are the voice for industry in Western Canada.

WCDIA’s role is to facilitate the development of the defence, security and law enforcement industries in Western Canada. WCDIA focuses on strengthening our members’ business growth, our region’s economy and Canada’s security through education, networking and advocacy.

Activities and services are provided to foster our members’ growth through:

- Events and conferences
- Training and education
- Networking
- Advocacy

WCDIA serves as an intermediary between members and the defence industry in Canada and abroad. WCDIA can make the right connections.

Annual Industry events

WestDef 2018  
July 26-28, 2018  
Calgary, Alberta  
www.wcdia.com

TACWest 2018 – Law Enforcement Trade Show and Range Day  
September 18-20, 2018  
Calgary, Alberta  
www.tacwest.ca

Business objective

WCDIA is seeking any company, association or organization wishing to connect with the defence and law enforcement industry in western Canada. We encourage you attend one of our two national industry events or discuss reciprocal industry association opportunities.

Contact

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White Whale turns customer data sets into unique structures in the cloud, creating a unified intelligence system that provides solutions in multiple markets. Arbitrary data sources are automatically restructured into a data brain with predictive, diagnostic and simulation abilities – meaning no coding is required for new customers and deployment happens instantly.

This technology eliminates the iterative nature of machine learning and provides more powerful solutions. Literature algorithms are useful at the time of application, but they provide no additional insight when they are inactive. White Whale’s unified system uses random processes to constantly uncover useful insights in the periods between user activity.

**Business objective**
We’re looking to connect with defence organizations with focuses in cybersecurity and artificial intelligence. Our unique value propositions are non-local-private-key encryption, solution-perfect group logistics, autonomous defence protocols, real time image classification and big data synthesis.

**Contact**
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Yanos

Yanos Aerospace is an engineering and software company based in Alberta, Canada with a list of clients that spans the globe. From large commercial engines, such as the Trent XWB/1000, to military grade engines, such as the F404/F414, Yanos Aerospace brings more than 20 years of design expertise to deliver seamless control and monitoring of your test cell.

We designed our state-of-the-art EngineTest© software suite specifically with test cells in mind. Utilizing feedback from years of satisfied customers, the EngineTest© software suite has evolved to the complete centralized acquisition and control system it is today.

Yanos Aerospace Inc. is fully registered with the Canadian Controlled Goods Program and is ready to take on contracts with elite aerospace programs around the world. Past customers include organizations such as Delta Airlines, Rolls-Royce, the U.S. Marine Corp, the Canadian Department of Defence and the Royal Australian Air Force.

Whether it be the custom implementation of the EngineTest© software suite or a full turnkey solution, Yanos Aerospace is equipped to provide a unique solution to meet your needs.

**Business objective**

Yanos Aerospace takes pride in remaining on the forefront of technical innovation in test cell control systems. We aim to work with other reputable organizations around the world to develop test cells equipped with the highest level of automation and safety possible.

**Contact**

**Ronald Yanos**, President
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Association and Academia Listing

**Industry associations/business development**
- Alberta Aviation Council: [www.albertaaviationcouncil.com](http://www.albertaaviationcouncil.com)
- Aerospace Industry Association of Canada (AIAC): [www.aiac.ca](http://www.aiac.ca)
- Air Transport Association of Canada (ATAC): [www.atac.ca](http://www.atac.ca)
- Canadian Association of Defence and Security Industries (CADSI): [www.defenceandsecurity.ca](http://www.defenceandsecurity.ca)
- Canadian Business Aviation Association (CBAA): [www.cbaa-aaca.ca](http://www.cbaa-aaca.ca)
- GeoAlberta: [www.geoalberta.com](http://www.geoalberta.com)
- Helicopter Association of Canada (HAC): [www.h-a-c.ca](http://www.h-a-c.ca)
- Unmanned Systems Canada: [www.unmannedsystems.ca](http://www.unmannedsystems.ca)
- Western Aircraft Maintenance Engineer Association (WAMEA): [www.wamea.com](http://www.wamea.com)
- Western Canadian Defence Industries Association (WCDIA): [www.wcdia.com](http://www.wcdia.com)

**Education facilities, research and/or training**
- The University of Alberta (U of A) ([www.ualberta.ca](http://www.ualberta.ca)) and the University of Calgary (U of C) ([www.ucalgary.ca](http://www.ucalgary.ca)) offer undergraduate and graduate science and engineering degrees with specialized training in instrumentation design, geomatics and earth observation sciences, intelligent image analysis, machine learning, advanced materials, mechanical and manufacturing engineering.
- The Alberta Machine Intelligence Institute – Amii ([www.amii.ca](http://www.amii.ca)) employs machine learning and artificial intelligence together called machine intelligence. Amii collaborates with a variety of organizations from Alberta and beyond to help develop innovative machine intelligence solutions for the toughest business problems.
- The UofC has expertise in space science, navigation and positioning, security and specializes in geomatics engineering, mechanical and manufacturing engineering and computer science. The Autonomous Reconfigurable/Robotic Systems Laboratory ([www.ucalgary.ca/research](http://www.ucalgary.ca/research)) investigates and develops monolithic and swam autonomous and intelligent reconfigurable ground and UAV.
- The UofA Department of Mechanical Engineering ([www.ualberta.ca/research](http://www.ualberta.ca/research)) offers courses in aerodynamics, optical flow measurement, turbulent fluid dynamics, flow control and computer vision.
• The University of Lethbridge (www.uleth.ca/vp_research) is home to the Alberta Terrestrial Imaging Centre.

• Mount Royal University (www.mtroyal.ca) offers an Aviation Diploma Program.

• The Southern Alberta Institute of Technology – SAIT (www.sait.ca) is a designated training organization under Transport Canada, and its programs are accredited by the Canadian Aviation Maintenance Council. SAIT also offers a UAS research lab, which is a collaborative effort between the School of Construction and Applied Research and Innovation Services (ARIS) at SAIT. The Centre for Innovation and Research into Unmanned Systems (CIRUS) aims to integrate and develop a variety of UAS applications for:
  · Industries: construction, oil and gas, and GIS and geomatics;
  · Governmental bodies: natural resource management (water resources, forestry) and environmental monitoring; and
  · International/national disaster and emergency management: relief operations for both manmade and natural disasters.

• Northern Alberta Institute of Technology – NAIT (www.nait.ca) School of Electrical and Electronic Technology has an applied research focus on UVS and welcomes collaboration from industry and other organizations.

• Red Deer College (www.rdc.ab.ca) offers many apprenticeship, certificate and diploma programs, including the Technology and Engineering Technologies programming and Applied Research and Innovation efforts.

• The National Institute for Nanotechnology – NINT (www.nint.ca) at the University of Alberta is a world-class nanotechnology research centre.

• TECTERRA (www.tecterra.com) creates value by investing in geomatics innovation for resource management and other markets.

• Alberta Innovates (www.albertainnovates.ca/technology/introduction) is part of Alberta’s research and innovation system which provides technical services and funding support to facilitate the commercialization of technologies, develop new knowledge-based industry clusters and establish an entrepreneurial-based culture in Alberta.
Alberta Centre for Advanced Micro Nanotechnology (MNT) Products – ACAMP (www.acamp.ca) is a not-for-profit organization that provides specialized services to MNT clients. ACAMP clients have access to world class equipment, facilities, expertise and a network of organizations that support and develop MNT devices, advanced materials and manufacturing.

C-FER Technologies (www.cfertech.com) works with industry to develop solutions to unique engineering challenges and offer unique testing systems for the oil and gas, aerospace, marine and construction industry. C-Fer has the ability to build new large-scale test equipment that is not available anywhere else in the world.

Defence Research and Development Canada Suffield – DRDC (www.drdc-rddc.gc.ca/en/research-centres.page) operates eight research centres across Canada, each with a unique combination of expertise and facilities to carry out world-class science and technology research. Located in southern Alberta, the Suffield Research Centre offers expertise in military engineering, autonomous intelligent systems, and defence against chemical and biological agents.

Universities technology transfer organizations
- TEC Edmonton – www.tecedmonton.com
- Innovate Calgary – www.innovatecalgary.com
- Regional Innovation Network of Southern Alberta (RINSA) – www.rinsa.ca
• Alberta Centre for Advanced Micro Nanotechnology (MNT) Products – ACAMP (www.acamp.ca) is a not-for-profit organization that provides specialized services to MNT clients. ACAMP clients have access to world class equipment, facilities, expertise and a network of organizations that support and develop MNT devices, advanced materials and manufacturing.

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**Universities technology transfer organizations**

• TEC Edmonton – www.tecedmonton.com

• Innovate Calgary – www.innovatecalgary.com

• Regional Innovation Network of Southern Alberta (RINSA) – www.rinsa.ca
About Alberta

Fast facts
• Population in 2016: 4.3 million.
• GDP in 2015: $326.4 billion.
• Area: 681,000 square kilometres – or 255,303 square miles – an area larger than France or Thailand.

Competitive taxes
• Albertans pay the lowest overall taxes in Canada.
• We have a competitive tax system with comparable personal and corporate income tax rates, no payroll tax, no provincial sales tax and no health premiums.

Arts and culture
• Five UNESCO World Heritage Sites are located in Alberta: Dinosaur Provincial Park, the Canadian Rocky Mountain Parks, Head-Smashed-In Buffalo Jump, Waterton-Glacier International Peace Park and Wood Buffalo National Park.
• Alberta is also home to a vibrant arts and culture scene, culinary adventures and exciting outdoor experiences

Business opportunities
• Alberta has deep knowledge and expertise across a variety of sectors, creating for opportunities for investment and collaboration.
  • Aerospace and defence
  • Advanced technology
  • Agriculture and agri-food
  • Culture and tourism
  • Education
  • Forestry
  • Infrastructure
  • Oil and gas and energy services
  • Renewable energy and environmental technology