

# BRITISH COLUMBIA CANADA



**INNOVATIVE**

**RESPONSIVE**



**Aerospace**



[www.BritishColumbia.ca](http://www.BritishColumbia.ca)



## BRITISH COLUMBIA'S AEROSPACE COMPANIES HAVE A PROVEN TRACK RECORD OF QUALITY AND INNOVATION



British Columbia's aerospace sector is globally recognized for its excellence in delivering highly specialized products and services, supported by a network of educational institutions that provide a deep pool of highly skilled talent. With close proximity to Boeing's final assembly lines in the Seattle area, British Columbia bridges space and culture between Asia Pacific, the Pacific Northwest and Canada's growing aerospace industry.

**Hour Air Travel Times from Vancouver International Airport**







Photo: ATI

The sector is supported by a diverse group of technology companies able to provide nimble and responsive support and solutions to the needs of industry leaders and global supply chains. Our network of high-technology companies provides a wealth of expertise in remote-sensing, satellite communications, complex robotics, 3-D simulation technology and advanced aerospace systems and sub-systems. With a talented and multilingual workforce, our companies are globally competitive and have earned a worldwide reputation for reliable delivery to six continents.

B.C.'s aerospace sector is the third-largest in Canada. It has more than 200 companies, generates a total of \$2.4 billion in revenue annually and directly employs nearly 9,000 people.

Take advantage of streamlined regulations and a flexible and supportive business climate in British Columbia.







## Aerospace Education, Training and Simulation

British Columbia's aviation training companies provide a wide range of services to emerging aerospace markets. They offer training in the following areas: pilot (ab-initio, refresher, and advanced), air traffic control, airport operations, float plane operations and aircraft maintenance.

### **PELESYS LEARNING SYSTEMS INC.**

Pelesys Learning Systems Inc. is a training solutions provider to airlines and airline training organizations. All Pelesys products and training solutions have been approved for use in accordance with aviation industry regulatory agencies to provide dependable, reliable and consistent training solutions.

### **RACEROCKS 3D**

RaceRocks 3D develops technology-enabled learning systems for the aerospace and defence industry. The company integrates the latest technologies — including augmented reality, simulation, games and video storytelling — to create training solutions that work for each client.

### **CHINOOK HELICOPTERS**

Chinook Helicopters provides all levels of helicopter pilot certification and specialization, meeting both domestic and international standards so pilots can fly anywhere in the world. It offers a full-range of industry-related advanced training and upgrades for commercial helicopter pilots flying operations around the world. It operates a 22,000-square foot training facility in Abbotsford, British Columbia.





## LEADERS IN EDUCATION, TRAINING AND SIMULATION

British Columbia Institute of Technology

Chinook Helicopters

Coastal Pacific Aviation

Heli-College

HNZ Topflight

KF Aerospace

Montair Aviation

Northern Lights College

Pacific Sky Aviation

Pelesys Learning Systems Inc.

Platinum Aerospace

RaceRocks 3D

University of the Fraser Valley

### HNZ TOPFLIGHT

HNZ Topflight offers advanced and mountain flight training, and has trained thousands of military, police, corporate and civilian pilots from all over North America and around the world. Located in Penticton, British Columbia, the company is within minutes of the mountain training area

### CONVERGENT MANUFACTURING TECHNOLOGIES

Convergent Manufacturing Technologies produces sophisticated software and hardware used for computer simulation and evaluation of manufacturing risk in producing complex composite structures used in the aerospace industry. The company is a spin-off from the Composites Group at the University of British Columbia, and it has strong links with the Composite Research Network.



Photo: HeliOne





Photo: Heli-One

## Aircraft Maintenance, Modifications, Repair and Overhaul

British Columbia companies possess comprehensive maintenance, repair and overhaul (MRO) and modification capabilities for both fixed-wing and rotary-wing aircraft, serving commercial, military and OEM customers. The province has an extensive history of developing Supplemental Type Certificate's (STC) that increase the utility of aircraft.

### **AEM (ANODYNE ELECTRONICS MANUFACTURING CORP.)**

AEM is a designer and manufacturer of avionics, aircraft audio systems, intercoms, tactical FM radio systems, illuminated panels and display products, external PA systems, audio amplifiers, audio adapters and remote switch assemblies. AEM is a Transport Canada approved manufacturer and maintenance organization, holds EASA Part 145 approval and is ISO9001/AS9100C registered.

### **ALPINE AEROTECH**

Alpine Aerotech is a Platinum Certified Bell Helicopter Textron approved customer service facility. The company also provides comprehensive worldwide helicopter support and aircraft maintenance services from their headquarters in Kelowna, British Columbia.

### **CASCADE AEROSPACE**

Cascade Aerospace is a specialty aerospace and defence contractor that provides engineering services for customer product design, manufacturing and certification. Its engineering team has been involved in developing and obtaining airworthiness approvals for major aircraft modifications for more than 30 years.

### **COULSON AVIATION**

Coulson's operations include helicopter logging, forest fire suppression, power-line construction, airliner passenger transport and many other industrial heavy lift operations. In 2015, it signed a Memorandum of Understanding with Airbus Defence covering the industrialization, supply and support of the new water bomber version of the Airbus C295W transport aircraft.

### **HELI-ONE**

Heli-One specializes in rotor wing maintenance, repair and overhaul with decades of experience supporting a wide range of helicopters. It is one of the world's largest independent helicopter MROs, and holds certifications and expertise on a broad range of airframes and components from major helicopter and engine manufacturers.



Photo: AIT



Photo: Coulson Aviation



Photo: Cascade Aerospace

## LEADERS IN MRO, MODIFICATIONS AND FLEET MANAGEMENT

Aero Design Ltd.

Aeromni Aerospace Inc.

Airborne Engines

Canwest Aerospace

Cascade Aerospace

CHT Aerospace

Conair Aviation

Emergo – Human External Cargo

Firkus Aircraft

Heli-One

Heliwelders Canada Inc.

International Aeroproducts Inc.

International Water-Guard

JB Helicopter Accessory Services

KF Aerospace

Marshall Aerospace Canada

Port Aircraft Interiors

SEI Industries

Select Helicopter Services

TAG Aerospace

Tasman Helicopters Ltd.

Tempest Aviation Group Inc.

Transwest Helicopters

Upper Valley Aviation

VIH Aerospace

Viking Air

### JUPITER AVIONICS CORPORATION

Jupiter Avionics specializes in the design and manufacturing of aircraft audio systems, controllers, panels and intercoms for rotary-wing or fixed-wing aircraft. Jupiter Avionics is AS9100C compliant, and offers integrated aircraft audio controllers for special mission helicopters or fixed-wing aircraft including paramilitary, search and rescue, forestry, emergency medical service and electronic news gathering.

### KF AEROSPACE

KF Aerospace provides air cargo operations, aircraft leasing services, heavy maintenance and modifications, and pilot training. KF Aerospace Defence Programs is a lead contractor for Canada's Royal Canadian Air Force pilots.

### MAXCRAFT AVIONICS LTD.

Maxcraft Avionics provides professional avionic services to all types of private and commercial aircraft, both rotary and fixed-wing. Its services include complete panel upgrades, installation, design, fabrication, STC approval, wire kit fabrication and worldwide field support. It is a Transport Canada approved maintenance organization and is recognized by both the European Aviation Safety Agency (EASA) and the Federal Aviation Administration (FAA).

### MTU MAINTENANCE CANADA

MTU Maintenance Canada is the North American member of the MTU Maintenance network of companies, the largest independent provider of commercial engine maintenance services worldwide. Based in Richmond, British Columbia, the company operates a shop in the immediate vicinity of Vancouver's international airport where it repairs and overhauls engines and accessories and performs engine tests.



Photo: Heli-One





## Tooling, Fabrication and Processes

### **ADVANCED INTEGRATION TECHNOLOGY CANADA**

Specializing in industrial automatic tooling, Advanced Integration Technology Canada (AIT) is a tooling manufacturer delivering a broad range of custom equipment, machines and finished materials to the aerospace industry.

### **PYROTEK**

Pyrotek is a NADCAP approved company providing certified aluminum heat treatment services to the Pacific Northwest. Process capabilities include solution heat treating, precipitation aging and stress relieving.

### **WESGAR AEROSPACE**

Wesgar Aerospace is an AS9100 Rev C certified manufacturer of non-flight critical aircraft components. It specializes in refining, documenting and controlling the manufacture of customer-designed parts and components that reliably meet every specification. Wesgar's service offerings range from simple part production to fully assembled, tested, turnkey electro-mechanical assemblies.

### **EBCO INDUSTRIES**

Ebco is an ISO9001 certified contract manufacturer located in Richmond, British Columbia, with 240,000 sq. ft. of covered shop and office space. It specializes in light precision machining and fabrication, precision sheet metal fabrication, heavy machining and fabrication, refurbishing, repair and assembly and is certified under the Canadian Controlled Goods Program, which is identical to ITAR (International Trade in Arms Regulations).

Capitalize on our technological excellence to accelerate your business.





Photo: Cascade Aerospace

### **ZUM HINGST TECHNOLOGIES**

Zum Hingst Technologies (ZHT) is an AS9100B, ISO9001 certified advanced manufacturing company, supplying precision machined parts to aerospace customers since 1978. It uses the most up-to-date technologies for data transfer and manufacturing methods, such as high speed and five-axis machining. ZHT's manufacturing process is CNC controlled using 3-axis, 4-axis and 5-axis capability, making extensive use of computerization and lean manufacturing procedures.

### **VERSAFORM CANADA CORPORATION**

Versaform Canada Corporation is an experienced metal forming facility with advanced capabilities that can form the most complicated parts. It provides components to the Boeing 737 (NG-MAX), 747-8F, 767, 787; Lear Jet MRO, Bombardier Global Express, Bombardier Challenger and Viking Twin Otter.

### **STRAIGHTLINE PRECISION INDUSTRIES INC.**

Straightline Precision Industries offers a wide variety of services including high precision two to nine axis machining of almost any material from aluminum to titanium, as well as almost all plastics. They are ISO9001: 2015 certified and also hold a Controlled Goods Designation that is issued by Industry Canada.





Photo: Viking Air

# Aircraft Manufacturing and Supply Chain

Access leading-edge design and manufacturing expertise. British Columbia companies serve major aircraft manufacturers such as Boeing, Lockheed Martin and Bombardier. We are also home to pioneering research and development on aerospace composite materials and structures.

## COMPOSITES RESEARCH NETWORK

The Composites Research Network (CRN), with a hub at the University of British Columbia and nodes across Western Canada, aims to support and grow the composites industry by bringing together academic and industry knowledge to improve capabilities in design, manufacturing, maintenance, repair and overhaul. Boeing is a founding industrial member of the network.

## VIKING AIR LTD.

Viking Air Ltd. of Victoria, British Columbia, is the manufacturer of the Series 400 Twin Otter, the best-selling next generation turbo-prop aircraft in its class. Viking's aircraft have been sold and delivered to 26 countries worldwide, and the company provides OEM support for the global fleet of de Havilland legacy aircraft (DHC-1 through DHC-7) and the new DHC-6 Series 400 Twin Otter. Designed for extreme operating environments, the Series 400 can be equipped with wheels, skis or straight or amphibious floats.



## ASCO AEROSPACE CANADA

ASCO Aerospace Canada Ltd. specializes in the co-development, design, precision machining, processing assembly and certification of complex, high-strength aircraft components. It is equipped with state-of-the-art machine tools including high-performance machining centres for both titanium and aluminum structural components.

## AVCORP INDUSTRIES LTD.

Avcorp offers a full suite of complex metallic, metal bond and composite manufacturing and assembly services to the world's leading aircraft OEMs. They also support airline operators and MROs with innovative component repair services.



# Security, Surveillance and Information Management

Conquer challenges in communications, systems integration, user interface design and graphics with British Columbia's industry-leading experts in aerospace security, surveillance and information management.

## **LATITUDE TECHNOLOGIES CORPORATION**

Latitude Technologies is a global supplier of flight data, tracking, satcom and messaging avionics equipment and services. The company provides reliable and secure aviation data and communication options for crew safety, fleet logistics and operations and maintenance efficiency.

## **MDA CORPORATION**

MDA Corporation is an international company that specializes in surveillance and intelligence, communications and advanced technology with almost 50 years of experience in the development of innovative space, aerospace, maritime and ground-based systems. The company developed the robotic systems used on the International Space Station, with continuing operations to upgrade and maintain them.

## **URTHECAST CORPORATION**

UrtheCast is an international technology company that is developing the world's first Earth video platform, with data captured from space in full colour. It has worked with aerospace partners to build, launch, install and operate two Earth observation cameras aboard the International Space Station.

## **SKYTRAC 2**

Since 1986, SKYTRAC specialized in the commercialization and evolution of satellite-based flight following and communication technology. SKYTRAC is a Transport Canada approved design approval organization and approved maintenance organization, and its management systems are registered to ISO9001/AS9100C.

## **STR SPEECHTECH**

STR SpeechTech provides natural-voice text-to-speech in mission critical broadcasting applications. StarCaster® text-to-speech systems are deployed throughout the world at air traffic control towers and flight service stations, where clear and consistent aviation information broadcasts are crucial. StarCaster is available in English, Spanish, Portuguese and French.

**Raise the level of your expertise and realize greater performance with our professional talent.**



## **LEADERS IN AEROSPACE SECURITY, SURVEILLANCE AND INFORMATION MANAGEMENT**

**ASAP Avionics Services**

**Boeing Vancouver**

**Avigilon**

**Distrix**

**Latitude**

**MDA Corporation**

**Urthecast**

**SKYTRAC**

**STR-SpeechTech Ltd.**

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Published in August 2018

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