

BRITISH COLUMBIA CANADA



INNOVATIVE

RESPONSIVE



www.britishcolumbia.ca

Front Cover Images:
Top right: Heli-One
Bottom left: MDA Corporation
Bottom right: Heli-One

Back Cover Image:
Top left, bottom right: Cascade Aerospace



Aerospace + Defence





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

British Columbia's aerospace and defence 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. The sector also includes 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.

With close proximity to Boeing's final assembly and integration production lines in the Seattle area, British Columbia has long standing ties to the Asia Pacific and is a major hub for the Pacific Northwest and Canada's growing aerospace industry.

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

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



Secure optimum operating performance for your fleet with British Columbia's sophisticated capabilities.



Approved Maintenance Organizations

British Columbia companies possess comprehensive MRO and modification capabilities for both fixed wing and rotary wing aircraft, serving commercial, military and OEM customers.

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 one of only two Lockheed Martin C-130J Super Hercules-authorized heavy maintenance centres in the world, and one of only two authorized C-130 Service Centres in the western hemisphere. Cascade is teamed with L-3 Mission Integration to produce a multi-mission extended range platform for maritime patrol and surveillance operations. Cascade also performs aircraft modification and design services for Bombardier and firefighting aircraft, including the Q400-MR aircraft.

CHC HELICOPTER AND HELI-ONE

Both CHC Helicopter and Heli-One operate their extensive global operations from their headquarters in Delta, British Columbia. Heli-One is the world's largest helicopter support company, servicing CHC Helicopter's fleet and a growing number of customers worldwide.

KELOWNA FLIGHTCRAFT

Kelowna Flightcraft operates scheduled courier service aircraft, line maintenance stations across Canada, heavy maintenance facilities and a military flight training facility. Kelowna Flightcraft is also the lead contractor for the Royal Canadian Air Force's primary flight training operation, Allied Wings.

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. The company operates near Vancouver International Airport where it repairs and overhauls engines and accessories and performs engine tests.

VECTOR AEROSPACE

Vector has provided OEM approved MRO services to fixed wing and rotary wing aircraft operators for more than 60 years, building a global network of service centres that includes helicopter repair and overhaul facilities in Richmond, British Columbia (engines and dynamic components) and Langley, British Columbia (airframes and avionics).

- LEADERS IN MRO, MODIFICATIONS, AND FLEET MANAGEMENT**
- Canwest Aerospace
 - Cascade Aerospace
 - CHC Helicopter and Heli-One
 - CHT Aerospace
 - Conair Aviation
 - Coulson Aircrane
 - Firkus Aircraft
 - International Water-Guard
 - JB Helicopter Accessory Services
 - Kelowna Flightcraft
 - Port Aircraft Interiors
 - Select Helicopter Services
 - Transwest Helicopters
 - Upper Valley Aviation
 - Vector Aerospace
 - VIH Aerospace
 - Viking Air



Aerospace Education, Training and Simulation

British Columbia offers the highest quality in aerospace training and state-of-the-art educational facilities, producing a steady stream of new professionals from aircraft maintenance engineers to designers and commercial pilots.

NGRAIN

NGRAIN provides interactive 3D simulation software and solutions for maintenance training and support, using an innovative approach to 3D simulations for military trainers, OEMs and systems integrators for air, ground, and marine equipment systems. NGRAIN's award-winning software and solutions have transformed training in the classroom, over the Web, on the flight line, and in the field.

PELESYS LEARNING SYSTEMS

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 creates 3D models and instructional packages suited to any training environment, from IMI level one informational video presentations to IMI level 4 Simulators and High end Games. Their 3D models and instructional packages are ideally suited for operational training and maintenance training and are suitable for first time learners or for re-familiarizing veterans.

CHINOOK HELICOPTERS

Chinook Helicopters provides all levels of helicopter pilot certification and specialization, operating a 22,000 sq ft training facility in Abbotsford, British Columbia. For training, Chinook uses the Bell 506B helicopter, the Bell 47 and Robinson R44.



HNZ TOPFLIGHT

HNZ Topflight 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 recognized as the largest helicopter transportation services company operating in Canada. Their services include providing training, maintenance, support as well as personnel and cargo transportation.

Advanced Materials

British Columbia is home to pioneering research and development on aerospace composite materials and structures.

COMPOSITES RESEARCH NETWORK

The Composites Research Network (CRN) is a major new initiative to support the transition of composites design and manufacturing capability to the industrial base. Working closely with a network of organizations across Western Canada, the CRN bridges the divide between the strengths of academic research and the needs of industrial practice. A state-of-the-art facility with a wide range of design, manufacturing, and testing equipment and resources supports the activities of the CRN team.

CONVERGENT MANUFACTURING TECHNOLOGIES

Convergent Manufacturing Technologies is a world leading provider of composite process modelling software and services. The company provides simulation tools that reduce the cost and risk associated with advanced composites manufacturing.

Tooling, Fabrication and Processes

ADVANCED INTEGRATION TECHNOLOGY CANADA

Advanced Integration Technology Canada (AIT) is a leading automation and tooling company delivering turnkey factory integration to the aerospace industry. AIT applies lean, right-sized, flexible automation and has installed hundreds of systems worldwide for major aircraft assembly programs.

ANOTEK ANODIZING

Anotek Anodizing specializes in metal finishing specifically sulfuric acid anodizing and electro-polishing. Located in Pitt Meadows, British Columbia, the company offers a full range of anodizing processes.

PYROTEK

Pyrotek is a NADCAP approved company providing Certified Aluminum Heat Treat Services to the Pacific Northwest. Processes capabilities include solution heat treating up to and including 12 feet, Precipitation Aging and stress relieving up to and including 20 feet.

WESGAR AEROSPACE

Wesgar is a fully integrated CNC precision sheet metal contract manufacturer with AS9100 & ISO9001 quality management certifications. Wesgar's facilities contain a variety of in-house processes include punching, stamping, forming, welding and coating.

METAL ACTION MACHINING

Metal Action Machining is AS9100 & ISO9001 certified, specializing in 3D & multi-axis machining. Metal Action has extensive experience in aerospace tooling, hydroforming formblocks, moulds, assembly jigs, fixtures and aerospace production parts for companies including Boeing, Avcorp and Cessna.

EBCO INDUSTRIES

Ebco Industries Ltd is an ISO9001 certified contract manufacturer located in Richmond, British Columbia, with 240,000 sq. ft. of covered shop and office space, specializing in light precision machining & fabrication, precision sheet metal fabrication, heavy machining & fabrication, refurbishing, repair and assembly.



ZUM HINGST TECHNOLOGIES

Zum Hingst Technologies (ZHT) is an AS9100B, ISO9001 certified advanced manufacturing company, supplying precision machined parts to aerospace customers since 1978. 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 AS9100C certified full service metal forming facility employing many years of stretch forming experience in aerospace, industrial and commercial sectors. Versaform provides components to Boeing, Airbus, Bombardier Global Express, and Viking Twin Otter.

STRAIGHTLINE PRECISION INDUSTRIES

Straightline Precision Industries offers a wide variety of services including high precision 2-9 axis machining of almost any material from aluminum to titanium, as well as almost all plastics.

REDLINE CNC

Redline CNC provides customers with precision CNC machining, production manufacturing, surface finishing and assembly needs. Located in Surrey, British Columbia, Redline CNC is AS9100 & ISO9001 certified.

KODIAK AEROSPACE

Kodiak Aerospace manufactures CNC machined parts, utilizing 3 and 4 axis machining capabilities including high-speed aluminum and titanium cutting.

Capitalize on our technological excellence to accelerate your business to the next level.





Aircraft Systems and Components

ANODYNE ELECTRONICS MANUFACTURING

AEM is a leading designer and manufacturer of aircraft audio systems, intercoms, tactical FM radio systems, illuminated panels and display products, external PA systems, audio amplifiers, audio adapters and remote switch assemblies.

JUPITER AVIONICS

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, EMS and ENG.

MAXCRAFT AVIONICS

Maxcraft Avionics offers aircraft service, repair and maintenance from their facility in Pitt Meadows, British Columbia. With 23 years of service, the company is able to provide a comprehensive service offering from the largest avionics facility in Canada.

AVM SOLUTIONS

AVM Solutions Inc. offers over 40 years of experience in design, technical publications, modification kit fabrication, equipment supply and installation and certification of major avionics/electrical modifications to both fixed and rotary wing aircraft for corporate, civil (passenger & cargo) and military operators worldwide.

SKYTRAC SYSTEMS

SkyTrac Systems is a specialized supplier of hardware and software for satellite based aircraft flight following and SatCom. Founded by experienced aviators in 1986, SkyTrac brings more than 20 years of experience to the SatCom marketplace. From the beginning, the company has been a leader in the commercialization and evolution of satellite-based flight following and communication technology.

LATITUDE TECHNOLOGIES

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

Aircraft and Aerostructures

Access leading-edge design and manufacturing expertise. British Columbia companies serve major aircraft manufacturers such as Boeing, Lockheed Martin, and Bombardier.

VIKING AIR

Viking Air Ltd. of Victoria, British Columbia is the OEM for several legacy de Havilland aircraft models 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. is the go-to company for the design and manufacture of high-lift and other complex and high-strength components for civil and military aircraft.

AVCORP INDUSTRIES

Avcorp Industries designs and builds major airframe structures for some of the world's leading aircraft manufacturers. Avcorp is a key supplier to the Lockheed Martin F-35 Joint Strike Fighter and manufactures critical structural assemblies for Boeing and Bombardier.

INTERNATIONAL WATER-GUARD

International Water-Guard has been a provider of aircraft water treatment and innovative water system solutions and components since 1982, working with corporate, VIP, and military transport operators.

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.

MDA CORPORATION

MDA Corporation is an international leader in surveillance and intelligence, communications and advanced technology with over 40 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, including the Canadarm2 and the Mobile Servicing System.

EPIC FUSION INTERNATIONAL

Epic Fusion International develops and implements a broad range of software and hardware solutions for data collection and operations management in discrete manufacturing and warehousing control, with a focus on Aerospace, Automotive and Heavy Equipment. Epic Fusion maintains operations in Canada, the United States, Europe and China.

STR SPEECHTECH

STR Speechtech provides natural-voice text-to-speech in mission critical broadcasting applications. Their 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 EDUCATION, TRAINING, AND SIMULATION

British Columbia
Institute of Technology

Chinook Helicopters

Coastal Pacific Aviation

HNZ TopFlight

Kelowna Flightcraft

NGRAIN

Northern Lights College

Pacific Sky Aviation

Pelesys Learning Systems

RaceRocks 3D

University of the Fraser Valley

LEADERS IN AEROSPACE SECURITY, SURVEILLANCE AND INFORMATION MANAGEMENT

Aeroinfo Systems

Avigilon

Axys Technologies

Epic Fusion

MDA Corporation

Skytrac

Spectrum Signal Processing

STR Speechtech

VIVA

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