Ontario’s aerospace industry is a technology intensive and diversified cluster.

Our industry is a world leader in multiple areas, including avionics and electronic systems, aerostructures, business jets, turbine engines, landing gear and systems, environmental systems and space robotics. The companies listed in this directory span all tiers, business activities and sizes. They are key suppliers on major international programs such as Airbus A350 and A380, Boeing B787 and B777, Bombardier’s Global business jet family and the Q400 turbo-prop. In total, Ontario companies have an active role in more than 150 aircraft and engine programs, defence systems, space systems and UAVs around the world.

This directory will provide you with a view from “30,000 feet” of the capabilities in Ontario for aerospace, space, defence, UAV and MRO. We hope that this introduction will enable you to connect with our companies and their people, open the door for opportunities to work together, as well as collaborate in research and technology.

Did you know:

• Ontario is the second largest aerospace sector in Canada, generating over $6 billion in annual sales with 80% export.
• Over half of the world’s top 25 aerospace companies have a base of operations in Ontario.
• Ontario manufacturers are part of the global supply chain for virtually every passenger aircraft in the world.
• Aerospace also supports other sectors within Ontario through technology spin-offs.
• More than 25% of Canada’s aerospace research and development activity is done in Ontario.
• Four of the top global landing gear companies produce full or major components in Ontario.
• Ontario provides landing gear for 75% of Boeing and Airbus commercial aircraft programs.
• Ontario’s space sector is the leader in Canada with nearly 52% of Canada’s space revenues and 46% of employment.
• Ontario’s defence sector is the largest in Canada.
• Our colleges and universities offer over 40 degree and diploma programs in applied aerospace, aviation and space disciplines across Ontario.

Our Ontario companies and the Ontario government continue to invest in innovation and the knowledge, skills and abilities of our people to ensure Ontario is well positioned to meet the challenges of a highly competitive global market.

Connect with us to learn more about aerospace in Ontario by visiting us virtually at www.theOAC.ca or in person.

We look forward to seeing you.

Moira Harvey
Executive Director
Welcome to the 2019 edition of the Ontario Aerospace Council (OAC) Capabilities Directory. As you browse through the pages of the directory, you’ll notice that it reflects the full spectrum of cutting-edge Ontario businesses that make up the sector, including satellites and space robotics, landing gear, electronic systems, engines, and the maintenance, repair and overhaul of aircraft, to name a few.

Virtually every passenger aircraft in the world uses Ontario-made aerospace parts—a remarkable achievement in this competitive global sector. Thanks to the hard-working members of the OAC, our aerospace industry is a recognized leader around the world. That’s why over half of the world’s top 25 global aerospace companies have key operations in Ontario.

The Ministry of Economic Development, Job Creation and Trade has a clear, modern vision to drive economic growth in the province through our focus on trade, investment attraction, research and commercialization, entrepreneurship and talent. And we are getting government out of the way of job creators, lowering business costs and making businesses more competitive by targeting costly and unnecessarily burdensome regulations.

I know that our vision aligns with the strategic direction of Ontario’s aerospace companies, and we look forward to continuing our close partnership with you to ensure that Ontario is open for business and open for jobs.

Sincerely,

Todd Smith
Minister
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ABOUT THE ONTARIO AEROSPACE COUNCIL

Established in 1993 the Ontario Aerospace Council (OAC), a not-for-profit organization, is comprised of 200+ member companies, representing over 70% of the Ontario aerospace industry employment base, and spans all tiers, business activities and sizes.

Our purpose is to enhance recognition of Ontario’s capabilities as a leader in global aerospace markets and work together to build greater expertise to assure continued growth and prosperity. The OAC fosters relationships between all stakeholders: industry, academia, researchers, governments and associations to gather and share industry intelligence, identify and facilitate funding, as well as being an active catalyst for industry growth.

Working collectively and collaboratively with our members and in partnership with government (provincial and federal), we define and implement strategic member programs, initiatives and events in areas including: technology development and adoption, supply chain relationships and readiness, skills development and workplace training.

All Ontario companies and organizations involved in and with the aerospace industry in Ontario are invited to be part of this collaborative effort. This includes OEMs, large companies and SMEs in: aircraft manufacturing (Tiers 1–4), UAS/UAVs, MRO (maintenance, repair and overhaul), ground-based infrastructure, defence and space. We also welcome Ontario organizations that do business with the aerospace industry, such as: financial institutions, colleges, universities, research centres and consultants (engineering, business services, marketing, electronic commerce and insurance).

Become a member of the OAC today and help shape the future of Ontario aerospace: www.theOAC.ca.
ONTARIO AEROSPACE SECTOR

OVER $6B IN ANNUAL SALES

This key sector is comprised of more than 200 companies and over 22,300 highly skilled and qualified employees, whose primary activity is aerospace — from design and test through manufacturing to full life cycle support. The total workforce is nearly 38,000 (direct, indirect).

TIER 1, LARGE TIER 2 AND OEM AEROSPACE COMPANIES IN ONTARIO BY SUBSECTOR

Supported by large group of smaller Tier 2, Tier 3 and specialized processing companies throughout the aerospace and space supply chains.

ONTARIO OFFERS:

• A diverse and established supply chain
• A highly skilled workforce supported by respected academic institutions and industry-specific learning programs
• A prime location in the heart of the North American market
• Competitive business costs
• A strong innovation ecosystem with R&D incentives
• Defence offset opportunities
• 5 international airports providing year-round service to customers
• Toronto’s Pearson International Airport is served by 75 airlines that offer service to over 100 destinations and is the hub for 400,000 flights a year. It is second busiest in North America for international passengers after JFK in New York City.

AEROSPACE EDUCATION PROGRAMS – ACADEMIC

AEROSPACE ENGINEERING is offered at 6 universities
• 5 undergraduate programs
• 10 graduate programs

APPLIED AVIATION AND SPACE is offered at 16 universities and colleges
• 6 degree programs
• 38 diploma programs

ONTARIO AEROSPACE SECTOR

Aircraft / Helicopter / Engine OEM 11%
MRO and Modifications 13%
Aerostructures and Landing Gear 34%
Avionics and Electronics 36%
Satellites and Spacecraft 6%
AEROSPACE IN ONTARIO

OVER HALF OF THE WORLD’S TOP 25 aerospace companies in the world have operations in Ontario including:

AIRBUS  BOMBARDIER  Collins Aerospace

GENERAL DYNAMICS  Honeywell  Leonardo

Mitsubishi Heavy Industries Ltd  Northrop Grumman  PCC Aerostructures Canada

Raytheon  Safran  Thales

ONTARIO’S AEROSPACE INDUSTRY:

• Annual sales of over $6 billion.
• Annual GDP impact of $3 billion (direct) and over $5.3 billion (direct and indirect).
• Employment of over 22,300 people.
• Annual R&D spending of $500 million.
• Exports over 80 percent of its finished product.
• Approximately 28 percent of all Canadian aerospace activity is done in Ontario:
  – Ontario’s space sector is the leader in Canada with nearly 52% of Canada’s space revenues and 46% of employment.
  – Ontario accounts for approximately 25% of MRO activity in Canada.
  – Ontario provides landing gear for 75% of Boeing and Airbus commercial aircraft programs.
• Canada’s aerospace manufacturing sector outpaces the total manufacturing sector in terms of research and development intensity, and 25 percent of this aerospace manufacturing R&D is done in Ontario.
• Ontario’s aerospace industry is a world leader in several areas, including turboprop aircraft, business jets, turbine engines, landing gear systems, avionics, environmental systems and space robotics.
• Ontario-made aerospace parts are used on virtually every passenger aircraft in the world.
• 16 universities with engineering programs (disciplines range from aerospace, physics, nuclear, mechanical, industrial, software, computer systems, etc.)
• Aerospace engineering PhD and Masters programs offered at the University of Toronto, Ryerson University (Toronto) and Carleton University (Ottawa).
• Over 40 degree and diploma programs in applied aerospace, aviation and space disciplines at colleges and universities across Ontario.
Composite Automation represents companies that focus on providing innovative manufacturing solutions to companies making composites parts and processing composite materials.

The companies we represent can supply the following innovative composite manufacturing solutions:

- Creneau – Ultrasonic cutting, composites machining and drilling
- ARM Automation – Automated ply picking, kitting and lamination
- Mikrosam Automated fiber/tape placement machines for pre-preg, dry and in-situ consolidated thermoplastic layup
- Mikrosam filament winders with single or multiple spindles
- Mikrosam pre-pregging machines
- Autometrix – Static and convoyerized cutting tables
- MoviTherm – Thermal imaging non-destructive testing solutions
- Independent Machine Company – Tape slitters and cross ply laminator for beams and stringers
- Aligned Vision – Laser projection solutions
- JETCAM – Nesting and composite material tracking
- ONExia universal holding fixtures, heated vacuum tables

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www.compositeautomation.com
ADVANCED MANUFACTURING BY CATEGORY

ADDITIVE MANUFACTURING

ADDUP – FIVES MICHELIN
www.addupsolutions.com
AddUp offers complete industrial solutions for 3D printed parts, from machine design and commissioning to consulting and technical assistance on series AM production.

ALIPTERA INC.

AVENTEC INC.
www.aventec.com
Aventec is a leading provider for the 3DEXPERIENCE platform, which includes CATIA, DELMIA, ENOVIA, and SIMULIA, to maximize engineering and manufacturing efficiency.

BURLOAK TECHNOLOGIES
www.burloaktech.com
Burloak Technologies, part of the family of Samuel companies, is a leader in additive manufacturing including design, prototyping and production. See ad page 8

CIMETRIX, A DIVISION OF JAVELIN
www.cimetrixsolutions.com
Cimetrix supports the aerospace and defence communities with comprehensive additive manufacturing solutions in support of high requirement applications. See ad page 9

CIMTEK, A DIVISION OF JAVELIN
www.cimetrixsolutions.com
Cimetrix supports the aerospace and defence communities with comprehensive additive manufacturing solutions in support of high requirement applications. See ad page 9

COMPOSITES AUTOMATION LLC

COORDINATE INDUSTRIES LTD.

ELLIOIT MATSUURA CANADA INC.

ENGINEERING SERVICES INC.

MAEGELLAN AEROSPACE

MDA

AUTOMATION AND ROBOTICS

A-LINE PRECISION TOOL LTD.

ALIPTERA INC.

AVENTEC INC.

BESNOVO INC.
www.besnovo.com
Robotics and automated solutions for the removal of paint, coatings, ice and snow using zero risk environmentally friendly systems.

COMPOSITE AUTOMATION LLC

COORDINATE INDUSTRIES LTD.

ELLIOIT MATSUURA CANADA INC.

ENGINEERING SERVICES INC.

MAGELLAN AEROSPACE

MDA

MHI CANADA AEROSPACE, INC. See ad page 36

NEXAS NETWORKS INC.

PARPAS AMERICA INC.

PROMATION AEROSPACE & DEFENCE

SII BUSINESS SOLUTIONS

SIEMENS
www.siemens.com
Siemens offers a solutions portfolio tailored for aerospace. Digitally plan and project the entire life cycle of products and production facilities.

SII CANADA INC.

TELEDYNE DALSA

VALIANT TMS
www.valianttms.com
Valiant TMS is a global company powered by people delivering optimal automation solutions and specialized cooling with ISO 9001, AS 9100 and CGC registrations.

COMTEK ADVANCED STRUCTURES

Comtek Advanced Structures is a leading supplier of composite components and repair services to business jet, regional aircraft, and aero-engine markets. We design, manufacture and repair components that are used on thousands of aircraft every day.

With 25 years of experience, a full engineering team and a state-of-the-art facility, Comtek is capable of fabricating virtually any composite/metallic structure using cost-competitive technologies.

Comtek supports regional airline operators with structural component repair services and replacement floor panels. Our capabilities include E-Jets, CRJ, Dash-8/Q400, ERJ and ATR. As a Design Approval Organization, we can repair damage that exceeds SRM limits.

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www.comtekadvanced.com

FIELD AVIATION

GARTECH INC.

GSNETWORKS

MAGELLAN AEROSPACE

NIAGARA COLLEGE CANADA, WALKER ADVANCED MANUFACTURING INNOVATION CENTRE

SHIMIFREZ INC.

VENTURE AVIATION INC.

WEBER MANUFACTURING TECHNOLOGIES INC.
Arnprior Aerospace Inc.

Arnprior Aerospace Inc. has more than 60 years of experience in the design, production, and support of structural components for aerospace and defense applications.

Our four manufacturing sites located in Arnprior, ON, Canada; Montreal, QC, Canada; Chihuahua, Mexico; and Portland, OR, U.S., total 340,000 sq. ft.

We combine our product design and program management skills with close tolerance fabrication, large envelope 3-5 axis machining of hard and soft metallic structures, complex assembly and integration, and special processes to create superior one-stop shopping value for our customers.

Our offering includes a wide range of manufactured aerospace products, Just-in-Time kitting and logistics, complex multi-commodity assemblies, avionics racks, trays and shelves, electrical distribution cabinets, fairings and large aircraft doors.

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www.arnprioraerospace.com

Aerospace Manufacturing Reimagined

Burloak Technologies delivers world leading additive manufacturing and precision machining solutions delivering both development parts and certified serial production to leading aerospace and spaceflight companies globally. Our 65,000 sqft facility offers all major AM modalities under one roof including LPBF, EBEAM, EBAM, DED, Binder along with advanced machining, heat treatment and materials testing.

We currently print components in a wide range of materials including Ti6Al4V, Ti6242, Ni718, Ni625, AlSi10Mg, F357, A205, SS316L, 17-4,15-5, M300, Copper, Invar36, Hast X, Nylon 12, PA2242FR.

With one of the largest AM fleets globally and extensive capacity, isn’t it time you called the Burloak Team?

www.burloaktech.com
For more than 25 years, Cimetrix has supported the aerospace and defense community with comprehensive Additive Manufacturing solutions, in support of high requirement applications. With unmatched industry experience, we help our customers redefine how things are made, with solutions that empower freedom of design and manufacturing flexibility.

3D PRINTING SOLUTIONS FOR AEROSPACE

SUPPORTED APPLICATIONS

- Jigs & Fixtures, Assembly Aids
- Trim & Masking Tools
- Metal Forming | Hydroforming
- Thermoforming
- Composite Layup Tools
- Sacrificial Cores
- Surrogate Parts
- End Use Production Parts

Additive Manufacturing Services

- **FDM**
  - ABS-ESD7, ASA, PC, Ultem 9085, Ultem 1010, Nylon 12, Nylon12CF (Carbon Fiber) Antero 800NA

- **DMLS**
  - Titanium (Ti64 & T384ELI)

Cimetrix Solutions Inc.
1143 Wentworth Street West
Suite 100, Oshawa, ON, L1J 8P7

1-800-298-6437

Discover more at: www.javelin-tech.com3d/3d-printing-service
Avion Technologies Inc.

Avion provides contract manufacturing services primarily to the aerospace and defence, nuclear, and heavy equipment industries. We manufacture from single part-level items, to final tested multi-level assemblies. We are experts in drive and actuation systems that require gear and spline expertise.

Manufacturing
Avion manufactures a wide variety of precision-machined components and sub-systems for clients who require reliable precision parts and components with full manufacturing traceability.

Combining skilled talent with CNC technology, Avion provides the precision, speed, and repeatability to consistently produce parts on-time to extremely close tolerances.

Drive Product / Gear and Spline Services
We offer integrated manufacturing services of drive and actuation products as well as gear and spline cutting services. Complete parts, assemblies, and gear/spline cutting services include:

- Internal / external involute spline cutting services
- Spur / helical gear sets
- Involute and parallel splined components
- Precision ground worm and worm gear sets
- Bevel gear sets
- Rack and pinion sets

Assembly and Kitting Services
- Gear and drive product assembly
- Installation of hardware and fasteners – bearings, bushings, joining elements, lock wires, etc.
- Kitting and stocking services
- Actuator assembly

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www.avion-tech.com
BEN MACHINE PRODUCTS CO. INC.

Ben Machine was founded in 1973 as a small tool and die shop for the investment casting industry. Since its founding, Ben Machine has remained an industry leader, expanding into CNC milling, turning and sheet metal operations.

Today, we are a fully integrated solutions provider that uses the latest manufacturing technologies to provide our customers with complete quality precision parts, faster lead times and competitive pricing. As we continue to grow, we are steadily upgrading our technological capabilities and broadening our services to provide a one stop shop for all sub-contracting needs.

Our combined facilities are over 85,000 square feet, offering all of our services under one roof. With significant room to expand, we can easily double our capacity overnight. Our team of experts includes more than 125 skilled tradespeople, engineers, management and support staff. Think of Ben Machine as an extension of your company.

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michael@benmachine.com
www.benmachine.com

CAMATECH INC.

CAMATECH Inc. is an AS9100®/ISO9001:2008, Controlled Goods registered full service facility, providing precision CNC machined components and sub-assemblies to the aerospace and military industries. In addition to being able to machine all conventional alloys and plastics, we can also machine a number of super alloys such as inconel, titanium, and tool steels. Our qualified professionals offer a variety of services that includes in-house tooling, custom programming and test fixture manufacturing as well as state-of-the-art 5-axis CNC milling and multi-axis CNC turning.

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sales@camatech.ca
www.camatech.ca
AVRO PATTERN INC.

B. C. INSTRUMENTS

www.bc-instruments.com

B. C. Instruments specializes in providing precision machined components and assemblies for our valued customers in the aerospace industry.

BEN MACHINE PRODUCTS CO. INC.

BOMBARDIER INC. See ad page 22

BROTECH PRECISION CNC INC.

www.brotechprecisioncnc.com

Ultra-precision CNC machining — milling, turning, broaching. Strategic partner to Tier 1s. All materials — no challenge too great.

BURLOAK TECHNOLOGIES See ad page 8

CAMATECH INC.

COORDINATE INDUSTRIES LTD.

www.coordinate-industries.com

A value-added leading supplier of high-quality precision machined parts for the aerospace, military and space industries.

Garrtech provides (AS9100D) 3, 4 and 5 axis precision lean manufacturing, engineering and inspection with design authority / reverse engineering since 1991.

Carpenter Technology Corporation is a recognized leader in high-performance specialty alloy-based materials and process solutions for critical applications in the aerospace, defense, transportation, energy, industrial, medical, and consumer electronics markets around the world.

Founded in 1889, Carpenter has evolved to become a pioneer in premium specialty alloys with a broad portfolio including premium quality high temperature (iron-nickel-cobalt base), superior corrosion resistant, controlled expansion, soft magnetics, ultra-high strength, implantable, as well as alloys specifically engineered for additive manufacturing (AM) processes. Carpenter recently expanded its AM capabilities to provide a complete “powder-to-part” solution to accelerate materials innovation, offer rapid prototyping, and streamline parts production.

Carpenter’s experienced and knowledgeable metallurgists, process engineers and other product specialists help customers solve their most difficult materials challenges.

Manufacturing and sales facilities are located in the United States, Europe, Asia, Mexico, and Canada. For more information, or to view technical alloy datasheets, visit www.cartech.com.

Contact:
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+1 416-998-1134
igilchrist@cartech.com

www.cartech.com
SMS Division offers high-precision 5 Axis machining and laser cutting services. Investment in state-of-the-art CAD equipment provides exceptional products and quality. We also offer welding, fabrication and full engineering support.

Koss Aerospace
www.koss aerospace.com
Koss Aerospace is an integrated manufacturer of structural aircraft components with over 45 years of industry experience.

Lake Central Air Services Inc.

Lynch Dynamics Inc.
www.lynch.ca
SME Lynch Dynamics designs, manufactures and integrates hydraulic motion control systems. Engineering services, design teams and state-of-the-art manufacturing under one roof.

MacFab

Magellan Aerospace

Mann Machines & Hydraulics Ltd.
www.mannhydraulics.com
For almost two decades, Mann Machines & Hydraulics has proven its motto, “quality, precision, excellence.” This stands true through its relentless drive for perfection, strong client relationships, and world-class machining capabilities.

MHI Canada Aerospace, Inc.
See ad page 36

Noble Precision

Nu-Tech Precision Metals Inc.

NWI Precision

PCC Aerostructures

PCC Aerostructures Landing Gear

Protectolite Composites

Qualified Metal Fabricators Ltd.

Service Mold + Aerospace Inc.

Shimco
www.shimco.com
World leader in high-precision gap management solutions, serving all major aerospace OEMs and Tier 1 suppliers.

Shimifrez Inc.

Siemens

Strite Precision Machining Limited
www.strite.com
Since 1964 Strite Precision has manufactured a wide range of ultra-precision machined aerospace products utilizing advanced machining techniques and equipment to meet these challenges.

Trinity Aerospace

Earle M. Jorgensen (EMJ)

EMJ supplies high performance, mission critical materials that meet approved metal requirements for the aerospace industry.

We stock and source aluminum, nickel alloys, stainless, titanium, and alloy steel from industry approved mills to ensure the highest standards of quality. Our service centers are certified to a variety of ISO and AS standards.

Our broad network of facilities, superior inventories, extensive value-added processing capabilities and world-class technology enable EMJ to provide unsurpassed service to our customers.

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EMJCanada@emjmetals.com
www.emjmetals.com

Genaire Limited

Genaire is a wholly Canadian owned company spanning three generations operating in the air industry since 1951.

We have repair lines for radomes (composites) including transmissivity testing, fuel cells (including the warehousing of many fleets of fuel cells), ground handling equipment (aircraft tow-bars engine lifts, maintenance platforms etc.), sheet metal work (ULDs, storage containers, etc.), cargo, seating and medical pallets, hydraulics (hydraulic jacks, cylinders, etc.) and wheel skis. We also perform painting, welding, and NDT processes.

Genaire holds approvals, both military and civilian, required for day to day business including Transport Canada approval under A.M.O. 8-64.

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SPPASI

The Queensway Machine Products Ltd.
www.queenswaymachine.com
QMP is a precision machine shop producing small to medium quality machined parts in aluminum, steels, titanium and exotic alloys.

Trinity Aerospace
Coordinate Industries Ltd. is a value-added supplier of high-quality precision machined parts. Our ISO9001/ISO14001/AS9100 registration and Controlled Goods Program enables us to service the aerospace, defense, and medical industries. Established in 1985 as a privately owned company, we are committed to providing cost-effective, technologically advanced parts manufacturing solutions to our clients. Our services include parts finishing, processing, and assembly, and we offer extended services through our approved network of suppliers. Our main differential is in providing our clients with complete machining and electro-mechanical assembly, where we achieve tight tolerances to meet the rigid demands of the defense and aerospace sectors. We are highly committed to quality and continuous process improvements. As an integrated solutions provider, we manufacture and precision machine parts to the exact specifications of our customers. Our continuous investment in leading manufacturing equipment enables us to ensure that our clients receive cost-effective solutions and high-quality parts.

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CPG AEROSPACE

Agile, Flexible, Responsive

CPG is an advanced manufacturer of precision parts and small assemblies, specializing in non-metallic materials. Our core processes include:

- CNC machining of components made from mechanical plastics, composites, and honeycomb
- Vacuum forming of interior panels made from thermoplastic sheet
- Die cutting of flat profile seals and gaskets made from rubber, and rubber-hybrids
- Integration and assembly of multiple components using fastening hardware or adhesives

Our organization is AS9100 certified, and we are registered under the Canadian Controlled Goods Program. Our team looks forward to helping you achieve your strategic goals through manufacturing excellence.

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www.cpgaero.com

HANDLING SPECIALTY MANUFACTURING

Since 1963, Handling Specialty has been exclusively dedicated to the custom design and manufacture of material handling systems for demanding applications. We are the premier source for made-to-order lifting, tilting, rotating and traversing equipment for clients seeking innovative solutions, exceptional professional support, world-class credentials and unmatched experience.

Our design capabilities and engineering expertise allow us to tackle one-of-a-kind applications that may have unique or extreme requirements involving usage, operating environment, and/or weight capacity. Bring us your handling challenges and we’ll provide you with a high quality, dependable solution.

Whether it is a single custom personnel platform for a material handling integrator, a custom scissor lift, an automatic or manually guided vehicle for your manufacturing facility, or a major turn-key project for a multinational company, Handling Specialty has the team to make it a success. We are your one-stop shop for the design, manufacture, installation and support of your project.

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mroper@handling.com
www.handling.com
Promotion Aerospace & Defence

Promotion is a leading automation, robotics, tooling and equipment company with three market-focused divisions delivering two fundamental capabilities:

- Automation Integration Solutions: Concept, development, design, manufacturing and integration of custom tooling, robotics and automation.
- Advanced Manufacturing: Engineer-to-order and build-to-print of complex systems as per customer specifications to the highest quality standards.

Founded in 1995 and located in Oakville, Ontario, we are Controlled Goods certified.

We are driving significant R&D activities in additive manufacturing. Innovation, project management, quality management, engineering, supply chain management and manufacturing expertise are cornerstones of our proven success, consistently delivering complex projects on-time and on-budget.

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www.promotion.com
Kromer Aviation Metals Inc.
Division of Scan Tube Steel Services Ltd.
AVIC Exclusive Agent

ISO 9001:2015+AS9120B

AVIC Forgings

Titanium Alloys  Landing Gear Forging
Aluminum Alloys  Actuation Systems
Stainless Alloys  Crank Shafts Forging

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dmcghie@scantubesteel.com

5640 McAdam Road, Unit 1
Mississauga, ON, Canada L4Z 1T2
www.scantubesteel.com
1-800-266-2907
Magellan Aerospace is a global company that provides complex assemblies and systems solutions to aircraft and engine manufacturers, and defence and space agencies worldwide. Magellan’s Operating System (MOS™) drives operational excellence throughout the organization.

Headquartered in Mississauga, Ontario, Magellan operates a network of facilities throughout North America, Europe, and India. Magellan’s Ontario operations are located in Mississauga, Kitchener, Renfrew, and Ottawa.

Magellan’s global operations are organized into business groups: Aeroengines; Aerostructures; Sand Castings; Repair and Overhaul; and Specialty Products. In Ontario, Magellan’s core capabilities include:

**Aeroengines**
- Engine components and assemblies
- Rotating parts (shafts, disks, spacers)

**Aerostructures**
- High velocity, hard metal machining of complex structural components

**Specialty Products**
- Small satellites and satellite buses
- Space payloads and hardware
- Satellite Assembly, Integration and Test (AIT)

**Repair and Overhaul**
- In-service support
- Engineering
- Aircraft engine MRO
  - F404
  - J85
- Complete engine teardown, build up and test
- Component repair

**Castings**
- Complex castings in aluminum and magnesium alloys
- 3D core printing
- Digital radiography
- Automated material removal
- 3D scanning
- Advanced non-gravity pouring

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www.magellan.aero

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Trinity Aerospace is a leading manufacturer of aircraft parts and assemblies (minor and medium subassemblies), ranging from simple brackets to complex structural components. We specialize in both sheet metal fabrication (including hydro-forming), heat treatment and precision machining. Trinity is AS9100D/ISO 9001:2015 certified and registered with the Controlled Goods Directorate program. Besides build to print, we also provide design/build solutions for prototype and certification, and as a Transport Canada approved (manufacturing) facility we can certify parts with a Transport Canada Form One.

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kmaxwell@trinityaerocanada.com
www.trinityaerocanada.com

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MAGELLLAN AEROSPACE

Magellan Aerospace is a global company that provides complex assemblies and systems solutions to aircraft and engine manufacturers, and defence and space agencies worldwide. Magellan’s Operating System (MOS™) drives operational excellence throughout the organization.

Headquartered in Mississauga, Ontario, Magellan operates a network of facilities throughout North America, Europe, and India. Magellan’s Ontario operations are located in Mississauga, Kitchener, Renfrew, and Ottawa.

Magellan’s global operations are organized into business groups: Aeroengines; Aerostructures; Sand Castings; Repair and Overhaul; and Specialty Products. In Ontario, Magellan’s core capabilities include:

**Aeroengines**
- Engine components and assemblies
- Rotating parts (shafts, disks, spacers)

**Aerostructures**
- High velocity, hard metal machining of complex structural components

**Specialty Products**
- Small satellites and satellite buses
- Space payloads and hardware
- Satellite Assembly, Integration and Test (AIT)

**Repair and Overhaul**
- In-service support
- Engineering
- Aircraft engine MRO
  - F404
  - J85
- Complete engine teardown, build up and test
- Component repair

**Castings**
- Complex castings in aluminum and magnesium alloys
- 3D core printing
- Digital radiography
- Automated material removal
- 3D scanning
- Advanced non-gravity pouring

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Shimco is an award-winning, world leader in the manufacture of high-precision standard and custom aerospace-grade shims, shim materials, precision machined parts, specialized coatings for high-wear applications and patented self-powered sensors for diagnostic and prognostic health monitoring for the OEM, Tier 1 and MRO aerospace, space and defense markets. Shimco is the #1 aerospace shim supplier in Canada and Latin America. A majority of the world’s aerospace and defense OEMs and Tier 1 suppliers buy from Shimco. Shimco is AS9100D certified and Canadian Controlled Goods registered. Shimco has won many awards for its products and services, including the Markham Board of Trade Business Excellence Award in “Innovation,” the Cambridge Chamber of Commerce’s “New Venture of the Year” award and Bell Helicopter’s “Premier Supplier Award.” Our focus is on 100% quality, 100% on-time delivery and superior customer service, all supplied at the lowest possible cost, to every customer we serve in the world.

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TSL Aerospace Technologies is a Canadian SME that provides manufacturing of parts and the distribution of specialty products to the aerospace industry. Parts manufacturing consists of complete fabrication of hydraulic and fuel lines as well as GTAW welding in several material and material thicknesses. Our company represents and distributes for BAE Systems – Aviation Protection and AeroWindTech – composite consumables and BriskHeat Corporation – Composite curing equipment.

TSL Aerospace Technologies maintains a quality system that conforms to ISO 9001:2015 + AS9100D by having clearly defined processes that are consistently followed or changed where processes are improved. Procedures are updated at appropriate times to reflect changes that occur.

TSL Aerospace Technologies specialize in providing our customers with the highest quality parts with short delivery lead times and small batch sizes. We provide our customers with confidence of delivery, service and quality knowing the work we do is ultimately vital to your finished product.

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**Virtek Vision**

Virtek is constantly reimagining how laser projection solutions are used to make complex manufacturing processes simpler, safer and more efficient.

Our team of the world’s leading technology experts developed the first projection systems capable of meeting the rigorous accuracy and precision requirements needed in aerospace production. We continue to build on this legacy by working side by side with our customers to understand how to configure our suite of industry leading products into solutions that address a wide range of industry needs for companies of all sizes.

Virtek is the first choice among the world’s leading innovators when they are looking for technology that is leading the industry, reliable, easy to use and adopt and focused on solving the specific challenges they seek to overcome.

For over 30 years, Virtek continues to be the global leader in laser projection and inspection solutions, providing exceptional expertise and engineering for manufacturers around the world. Our solutions improve productivity, increase accuracy and optimize quality in aerospace and composites, heavy industries, pre-fab construction, sheet metal fabrication and energy markets. Founded in 1986, Virtek is based in Waterloo, ON, Canada, and has sales and service coverage in the USA, Europe and Asia Pacific. #seethingsdifferently

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**Universal Precision Technology**

Established in 1992, Universal Precision Technology specializes in precision machining of components for the aerospace, aircraft, military, medical and optical industries. In addition, we also provide assembling, prototyping, batch and full production runs.

We offer our clientele complete solutions to their complex machining requirements while working with a variety of materials i.e. all aircraft aluminum alloys, tungsten, stainless steels, titanium and plastics.

Universal utilizes state of the art equipment such as multi-axis CNC mills and lathes, wire and die sink EDMs and millturn equipment. Our 45,000-sq.ft. facility allows us the opportunity to meet current and future customer demands throughout Canada and over the border.

Our accomplished personnel are dedicated to providing nothing but the highest quality standards and exceptional customer service.


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AIRCRAFT
Taking to the skies requires a strong team on the ground; a team that’s ready wherever and whenever you land. Bombardier Commercial Aircraft provides that team. Our network of Customer Services experts can assist you with a full portfolio of services, from parts and maintenance to training and fleet management. Whether it’s technical assistance or aircraft refurbishment, we’re on hand to help you maximise aircraft performance – around the world, around the clock.

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Airbus is the world’s number 1 helicopter manufacturer and a leading supplier of helicopters flying across Canada in key roles such as law enforcement, emergency medical services, utility, oil and gas, and transport. Established in Fort Erie, Ontario in 1984, Airbus manufactures, markets, exports, assembles and provides services including: repair and overhaul, airframe and engine maintenance, flight testing and approved pilot training for Airbus rotary wing aircraft. Airbus has additional helicopter operations in Richmond, BC, and Montreal, QC, as well as a dedicated 24/7 customer service network supporting a fleet of more than 700 helicopters and 200 operators in Canada. The main Canadian manufacturing facility is a centre of excellence for engineering and composite, as well as a sole source supplier of 50 various parts installed on Airbus helicopters flying around the world. Airbus also provides overhaul services, such as dynamic component repair, to Airbus helicopter operators worldwide.

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BOMBARDIER

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Bombardier is headquartered in Montréal, Canada. The company manufactures its Q400 turboprop and Global business jets at its Toronto site, which also houses sales, marketing, contracts, and Bombardier Commercial Aircraft customer services employees.

Contact:
Todd Young
Vice President and General Manager
Bombardier Commercial Aircraft
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AirStart is a supplier of rotatable and expendable parts for commercial and corporate aircraft, we have been keeping global airline fleets in the air since 2000. We are certified to AS9120B and are an accredited ASA member. AirStart is recognized as Bombardier, Boeing and Airbus components experts. Our Rotatable components are available for Sale, Exchange and Lease. Our Rapid Exchange (RX) program will save you time and money. Your order is always ready to ship within 15 minutes of your order. We believe in going the extra mile to build global relationships. More lift, less drag; that’s what working with AirStart is all about!

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**STERLING AIRCRAFT PRODUCTS INC.**

Sterling Aircraft Products Inc. is a leading Canadian stocking distributor of hardware, servicing the aviation, military and power generation markets, certified to AS9120; ISO9001:2008.

For over 25 years Sterling has supported OEMs, including Rolls Royce, Siemens and Bombardier, by offering value added services such as LTAs, VMI and Kitting.

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PHOTO COURTESY SAFRAN LANDING SYSTEMS
CFN Precision

Originally founded in 1981, CFN Precision is a valued producer of small to medium-sized precision machined parts for the aerospace sector.

CFN specializes in complex precision machined components, kits and assemblies for landing gear and aircraft structures.

At CFN, we help our customers get to market first by ensuring on-time delivery of high quality, complex parts and assemblies.

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Safran Landing Systems

Safran Landing Systems is the world leader in aircraft landing and braking systems. Capabilities encompass the full life cycle from design, manufacture to in-service support, repair and overhaul.

Shimifrez Inc.

Héroux-Devtek Inc. is an international company specializing in the design, development, manufacture and repair and overhaul of landing gear and actuation systems and components for the aerospace market.

PHOTO COURTESY DIAMOND AIRCRAFT INDUSTRIES
PCC Aerostructures – Landing Gear Division, Noranco specializes in the engineering support and manufacture of landing gear system components. Our capabilities include value engineering and precision manufacturing of landing gear yokes, axles, actuators, cylinders, pistons, pins and fully assembled strut assemblies. We provide integrated and value added services in the areas of high-precision CNC machining of aluminum and hard metals, processing, assembly, testing, multi-component kitting and supply chain management. PCC Aerostructures – Landing Gear Division Noranco is an integrated manufacturer and solutions-provider to the international commercial and military aerospace sectors.

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www.precast.com

Safran Landing Systems is a Transport Canada, EASA, and CAAC approved MRO facility located in Ajax, Ontario with both civil and military landing gear capabilities. Safran Landing Systems has extensive experience on Dash-8, CRJ200, Global Express, and the Bombardier Challenger family, as well as F18 and V22 military aircraft. Our 10,000-sq.ft. MRO shop has repair capabilities that include machining, NDT, CMM, testing, inspection, surface treatment and a full range of engineering services.

For over 60 years, Safran Landing Systems has provided quality repair and overhaul services with 39 qualified technicians offering the best warranty in the market with turnaround times as little as 11 days. As the OEM, Safran Landing Systems offers not to exceed pricing on the Global Express and Challenger landing gear inspections. This provides the operators with a dollar value to budget for their landing gear inspections.

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www.safran-landing-systems.com
Collins Aerospace is a pioneer in the development of industry leading avionics, aircraft interiors, aerostructures, power & controls, mechanical and mission systems which are delivered by 70,000 employees worldwide. Collins is also recognized for its global services and support capabilities which are demonstrated with its longstanding relationships with many of the world’s airlines, aircraft manufacturers and national defence organizations including the Canadian Armed Forces.

Collins is committed to the Canadian aerospace and defence industries as exemplified by its ongoing investment in the development, production and support of advanced avionics, landing gear systems, and communications systems. Collins maintains a broad presence in Canada with facilities in Ottawa (Mission Systems), Oakville (Mechanical Systems), Winnipeg (Interiors) and Montreal (Avionics) that employ more than 1,200 people across the country.

Collins Aerospace in Ottawa specializes in the design, development, support, modeling and simulation of wireless, ad-hoc networking technologies for tactical applications used by the Royal Canadian Navy, Canadian Army, as well as coalition partners around the world. The Ottawa facility also serves as a focal point for all Collins systems, services and repairs for the Canadian Government.

Collins Aerospace in Oakville is a leading provider of integrated landing gear systems with capabilities that include the design, test, manufacture and support of landing gear for a wide range of business, commercial, military and regional aircraft. Its expertise in structural design and analysis, system integration and advanced manufacturing are relied upon by its customers to provide highly engineered landing systems for some of the world’s foremost aircraft.

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AKKA Technologies is an international engineering and technology consulting company (21,000 employees, 29 countries). Since 1984, AKKA has been developing its global aeronautical offer: from manufacturer design offices to operators, including OEMs, airlines owners and lessors. This tailored support can be provided in the form of technical assistance or work packages at every stage of a project in a wide range of services:

- Embedded software and electronics
- Systems engineering
- Mechanical engineering
- Industrialization support and supply chain management
- Aircraft modification with its DAO TCCA and DOA EASA

Present in Canada since 2010 (Montreal, QC), AKKA started its activities in Ontario in 2016. In the Americas (4,400 employees), AKKA provides high added-value services to its clients in the fields of aerospace and defense.

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AIRCRAFT STRUCTURAL ASSEMBLIES AND COMPONENTS
AAA CANADA

AAA Canada is an on-site manufacturing company that offers specialized subcontracting and technical assistance services related to industrialization, production and supplier monitoring processes.

- **Industrialization**: manufacturing engineering, methods support, quality assurance and inspection, NDT and logistics production support.
- **Production**: structural repairs, systems installation, electrical system installation, metallic and carbon fiber subassembly, quality inspection.
- **Supplier monitoring**: Represent the end customer at the supplier site with our quality and project team, perform inspections on parts or assemblies, conduct customer audits, improvement plans and reporting.

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DN QUALITY MACHINING LTD.

DN Quality Machining is recognized and respected as a valued supplier of high quality precision machined parts, and as a manufacturer to, but not limited to, the aerospace and defense sectors. Customer satisfaction, high quality standards, a dedicated team and attention to detail, are the keys to their growing success and continuous improvement. Certifications include ISO 9001 / AS 9100 Rev D and Controlled Goods Program.

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MHI Canada Aerospace, Inc. has built more than major aircraft components over the past 13 years; it has built a powerful worldwide reputation for capacity, precision and excellence. Today’s MHICA represents a state-of-the-art manufacture and assembly facility and a supply chain and logistics centre, and more than 800 highly skilled employees building wing and centre fuselage sections for Bombardier business jets. MHICA’s logistics centre ensures the stable and on-time delivery of materials, sub-assemblies and tooling needed for continuous and fluid assembly. MHICA has the tools, capacity and experience to execute any major aircraft component challenge today, tomorrow and in the future.
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Established in Fort Erie, Ontario in 1930, Fleet Canada is a build-to-print manufacturer of aluminum and composite details and assemblies. Nadcap approved in Chemical Processing (31 ft. tank lines), Composite (and metal-to-metal) bonding (31x10 ft. autoclaves), Heat Treat, and Non-Destructive Testing (LPI), AS9100C and Controlled Goods certified.

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PCC AEROSTRUCTURES is one of the world-class, largest build-to-print manufacturers of complex structural and mechanical assemblies in the aerospace industry, with more than three million square feet of manufacturing space on three continents. As a vertically integrated operator of manufacturing clusters spread across North America, Europe, and Asia, PCC Aerostructures offers comprehensive, multi-site solutions to meet the needs of each program from startup through maturity. Its core competencies are broken into three categories; multi-axis high velocity machining of complex aluminum structures, multi-axis high torque machining of specialty hard to machine aircraft alloys such as titanium, Inconel and hardened steels, and assembly of major aircraft sub-structures to global OEMs: Boeing, Airbus, Bombardier, FACC, Lockheed Martin, Spirit AeroSystems, Gulfstream and Premium Aerotec.

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Contact Trent Gervais, General Manager

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Celesitica is the leader in electronics manufacturing services for the aerospace and defence industry. We help our partners improve their quality and competitiveness by optimizing supply chains in the areas of design, engineering, manufacturing, test and after-market services.

With over 15 years of serving the world’s leading aerospace and defence companies, we manufacture systems and assemblies found on virtually all commercial aircraft in the air today.

Celestica’s global Centres of Excellence are designed to help with direct offset arrangements and have the processes, management system and supply base to help mitigate risk and ensure supply continuity at the lowest total cost of ownership.
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AMPHENOL CANADA CORP.

Headquartered in Toronto Canada, and with subsidiaries in Belleville, Canada, and Nogales, Mexico, Amphenol Canada Corp. is an international leader in the interconnect industry. From design and manufacturing through quality inspection and shipping, Amphenol Canada has over 50 years of experience in the Military/aerospace and commercial markets.

Amphenol Canada has pioneered many unique technologies to address the interconnect needs of increasingly demanding applications, including filtered connectors and interconnect devices for EMI and EMP protection, ruggedized connectors for harsh environments, and industry-leading high speed signal connectors for use in the rapidly growing in-flight entertainment industry of commercial aviation.

With markets including military and commercial aerospace and defense, our expertise in understanding and supporting our many customers’ interconnect needs has earned Amphenol Canada a reputation of quality and excellence amongst the world’s leading users of electronic components.

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Electronic Craftsmen designs and builds a wide range of custom transformers and inductors for use in power electronics and energy storage applications. We specialize in optimized designs of 400Hz, high-power switching, high-voltage encapsulated, multi-phase and multi-frequency transformers, inductors, reactors and chokes that require high attention to detail.

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FTG is a global corporation offering design, development, prototypes and manufacturing solutions for aerospace and defense electronic products.

FTG offers innovative engineered solutions, diverse manufacturing capabilities and product support through its facilities in the United States, Canada and China.

The company has two operating business units: FTG Circuits and FTG Aerospace.

- FTG Circuits is a manufacturer of high-technology, high-reliability printed circuit boards for HDI, RF, thermal management, rigid flex and flex applications.
- FTG Aerospace designs and manufactures high-reliability, high-quality illuminated switch panels, keyboards, MCDUs, bezels and box-level assemblies (LRUs).

FTG is focused on the global aerospace, space and defense markets. FTG supplies to airframe manufacturers, avionics providers and to related applications such as simulation systems. With a commitment to invest in R&D, dedicated program management and support staff, FTG is positioned with technologies and skills to address the needs of new programs to increase performance, reduce mass and improve efficiency. From vendor management and logistics to kitting and direct line feed, we can customize solutions based on our proven systems and long-term experience.

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L3 WESCAM serves all segments of the manned and unmanned airborne market with advanced EO/IR imaging and targeting systems (MX™-Series), in addition to modular system solution kits (MatriX™). Both MX-Series systems and MatriX solution kits have been engineered to address our customers’ varying cost, capability and platform requirements. MX turrets range in size from 8 to 25”, operate with outstanding stabilization and provide exceptional long-range imaging performance across the visible and infrared imaging spectrum. MatriX system solution kits include an MX-Series surveillance or designating turret (configured for ISR operations) in addition to a walk-on/walk-off mission console specifically designed and configured with technologies for the mission/platform at hand. All MX products are backed by over 42 years of mission-proven experience, global service depots and a team of field service technicians available for dispatch 24/7 to anywhere in the world.

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For over 60 years, Safran Landing Systems has provided quality repair and overhaul services with 39 qualified technicians offering the best warranty in the market with turnaround times as little as 11 days. As the OEM, Safran Landing Systems offers not to exceed pricing on the Global Express and Challenger landing gear inspections. This provides the operators with a dollar value to budget for their landing gear inspections.

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dave.muir@safrangroup.com

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Liburdi Turbine Services operates internationally offering engine component repairs for blades, vanes, combustors, seals, shafts and cases. Liburdi develops solutions for aerospace gas turbine components.

Liburdi offers innovative engineered solutions in powder metal sintering (LPM), Direct laser energy deposition (DED) Additive Manufacturing (AM) to allow OEMs, airlines and MROs to safely repair gas turbine components extending gas turbine engine life. Liburdi operates in Canada, the US and China. Liburdi Turbine services is a TCCA AMO designated facility able to offer NDT, welding, vacuum heat treatment, high temperature brazing and novel (Pt, Si, Cr) hot section aluminide coatings. Compressor section “NADCAP” approved EBPVD erosion coatings for gas turbine compressor parts. Liburdi is ISO accredited and audited by OEMs and airlines annually.

Repair services include X-ray, ultrasonic and mag particle. Products include LAWS (DED) additive manufacturing systems (3-7 axis) and robotic welding cells for aerospace alloys.

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Grant McDonald
National Aerospace and Defence Sector Lead
E: gmcdonald@kpmg.ca

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Advanced Manufacturing Business Integrator
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walter.garrison@mississauga.ca

www.thefutureisunlimited.ca
Mississauga is home to Pearson International Airport, Canada’s largest and North America’s 2nd busiest airport. Mississauga’s aerospace cluster is comprised of world-leading aerospace manufacturers, support services for aerospace manufacturers, airlines, and airport services. There are 345+ aerospace companies and 28,000+ employees working in Mississauga’s aerospace sector. Together they create the number one aerospace cluster in Canada.

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www.mcecor.com

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www.defenceontario.com

The Defence Association of Ontario (Defence Ontario) is your connection to the Ontario defence sector.

Our mission is to promote the growth of small and medium sized enterprises in the Ontario defence sector. As a trusted partner, we leverage our experience, reputation and knowledge-leadership position to connect and network your organization with the influencers and decision makers in the defence sector and the Canadian government.

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WOMEN IN AEROSPACE CANADA (WIA CANADA)

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www.wia-canada.org

Contact:
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+1 905-518-2266
fabrice.garro@akka-na.com
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www.TDM.ca

THERMODYNE ENGINEERING LTD.
Thermodyne Engineering Ltd. provides consulting engineering and qualification / certification testing services required by RTCA-DO-160 and MIL-STD-810.

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CONTEX provides aviation simulation software consulting and development services. CONTEX has expertise in complex simulation model development for software to be used in simulators and various desktop/web/mobile delivered training products. CONTEX experience includes flight management system development, aerodynamic modeling, avionics re-host, and aircraft ancillary system development. CONTEX software can also be integrated into computer-based training for interactive pilot training.

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AeroTek’s QMS is AS9100, ISO9001, NCA3800, Z299.3 and CGP Registered.

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Exactatherm Ltd. is a world-class provider of heat treatment and ion nitriding services for the aerospace and automotive industries. Established in 1979, Exactatherm Ltd. is one of North America’s leading companies for the heat treatment and processing of metals and continues to be a market leader by consistently being at the forefront of quality assurance and technical expertise. With over 35 years of experience, Exactatherm Ltd. has the knowledge and capability to provide you with the services required for your job. Approvals: Nadcap AS7102, SAE AS 9000, ISO 9001; 2000, Controlled Goods Program, Bombardier, Boeing, Messier-Dowty, Goodrich, Rolls Royce.

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www.exactatherm.com

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Tulmar Safety Systems Inc.

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Blaser Swisslube’s goal is to optimize its customers’ manufacturing processes with the liquid tool and to improve their economic efficiency, productivity as well as the machining quality. Blaser Swisslube presents the possibilities to fully exploit the potential of machines and tools by using the right metalworking fluid, which becomes a liquid tool.

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**CANADORE COLLEGE**

**Research and Training and Certification Capabilities – Applied Research**

Additive and Advanced Manufacturing, based out of the ICAMP (Innovation Centre for Advanced Manufacturing and Production), research capabilities include:

- Additive manufacturing and 3D printing, specializing in both metals and polymers
- Process development incorporating robotics/CNC
- Digital manufacturing and visualization
- Product design and development
- Finite Element Analysis and Simulation

Training and Certification Capabilities include, but are not limited to:

- Aviation Technician/Technology – Aircraft Maintenance, Avionics, Structural Repair
- Commercial Fixed Wing Pilot
- Commercial Helicopter Flight Training
- Mechanical Engineering Technology
- Precision Machining
- Welding Technology
- Apprenticeship training in metal fabrication, machining, and others

Composites Fabrication and Testing Research includes:

- Composites manufacturing process development
- Destructive and non-destructive testing methods

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www.canadorecollege.ca
In aerospace, UOIT has specific expertise in thermodynamics and heat recovery systems, wireless sensor technology and communication, reconfigurable antennas, and big data analytics for machine health. As well, UOIT hosts the ACE research and testing facility with chambers and technology for climatic, structural durability, and life cycle testing.

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CARLETON UNIVERSITY

Located in the nation’s capital, Carleton University is dynamic and research-intensive with a great tradition of innovation. Every year, its internationally recognized faculty educate more than 28,000 students from Canada and around the world.

One of the University’s greatest strengths is its aerospace education and research, with the country’s oldest Bachelor’s degree in Aerospace Engineering, Master’s and PhD programs in Aerospace Engineering and related fields, and a long record of achievements in aerospace and aeronautics research. Carleton Aerospace, an interdisciplinary group of over 30 faculty members, is a driving force of change, innovation and discovery in eight major areas of research focus: Intelligent Aircraft Systems and Avionics; UAVs; Flight Simulation and Human Factors; Rotorcraft; Space Robotics and Systems; Advanced Propulsion Systems; Structures, Materials and Manufacturing; and Advanced Aerodynamics and Aeroacoustics.

(Shown: the unique spherical design of the CUSP full-motion flight simulator.)
Over the past 52 years, Centennial College has transformed from a local community college to an institution with international reach, with a presence in countries including China, India, South Korea and Brazil. We offer hands-on education rooted in global citizenship, equity and social inclusion. We focus on preparing graduates to enter the workforce, while teaching our students to be leaders.

Our newest addition, Downsview Campus, honours the past by reviving a long-dormant part of Canadian aviation, while also looking forward by training the next generation of aerospace innovators. This four-acre campus resides on the historic de Havilland of Canada site, combining the original build with new construction, totaling 138,000 square feet of space.

Located at Downsview Campus are our Aerospace Manufacturing Engineering Technician/Technology programs, where students gain a strong understanding of aircraft manufacturing operations, aerospace systems and UAV technology. Informed by industry standards, our programs ensure students are immersed in an avionics-oriented curriculum and gain a strong understanding of the functional areas of aerospace and mechanical engineering. Coursework provides students with an integrated perspective on electricity, electronics, control and navigation systems, CNC machining operations, problem solving, project management, operations management, process engineering, product life management, quality control, materials testing, as well as engineering software including CAD, CAM, PLM, FEA and CFD.

With world-class laboratories and learning spaces and top-tier instruction from industry, our future aerospace technicians and engineering technologists have everything they need to propel them towards career success.

To learn more about all our Downsview Campus offerings, visit www.centennialcollege.ca/downsview.

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centennialcollege.ca/aerospace-manufacturing
HUMBER APPLIED RESEARCH & INNOVATION

Humber Applied Research & Innovation cultivates collaborations with industry partners based on market driven need. These collaborations leverage not only the expertise of Humber faculty and students but also leading edge equipment and infrastructure. Humber focuses its efforts on applied research areas such as system integration and Internet of Things, partnering with industry to help to overcome challenges and help move ideas from concept to reality.

As a leader in polytechnics and interdisciplinary education, students who are attending Humber to perfect their skills in fields like engineering, automation, and manufacturing have the ability to collaborate with faculty and influence industry with their talent, up-to-date knowledge of their fields, and fresh ideas. Humber also offers a Continuing Education UAV Program where students can gain a UAV certificate and take a UAV Pilot Ground School course—opening the door for Humber to collaborate with even more specialized partners on applied research projects.

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www.humber.ca/research

FANSHAWE COLLEGE NORTON WOLF SCHOOL OF AVIATION TECHNOLOGY

Fanshawe is one of Ontario’s largest colleges. Its campuses, located in London, Simcoe, St. Thomas and Woodstock, serve close to half a million people with a promise to educate, engage, empower and excite.

The College attracts students from 80 countries every year and opens up a world of possibilities through more than 200 degree, diploma and certificate programs, along with apprenticeship training.

As specialists in providing Transport Canada approved aviation programming, Fanshawe students receive training of the highest quality and pursue aerospace careers across Canada and around the world at all levels of manufacturing, maintenance, fleet service and administration.

For more than 50 years, Fanshawe has been helping people to unlock their potential and achieve success. The Norton Wolf School of Aviation Technology continues to expand with new programming and exciting educational opportunities that meet the needs of the future.

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www.humber.ca/research
McMaster Manufacturing Research Institute (MMRI) – McMaster University

New in 2017: Full in-house PVD coating development and deposition capability. The McMaster Manufacturing Research Institute (MMRI) at McMaster University was established in 1999 and performs research relevant to a wide range of manufacturing processes. More than a research lab, the MMRI aims to support Ontario Industry with its unique equipment, personnel and knowledge resources. The MMRI has over $18 million in state of the art manufacturing equipment and supports a wide range of research projects, making the institute a crucial focal point for University and Industry interaction and provides researchers with an industrial-scale research platform which is used to address a wide range of topics of importance to the MMRI’s industrial partners. Areas of expertise include metal removal tooling selection and process development, as well as extensive support for difficult-to-process materials which are critical to the aerospace industry.

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www.mmri.mcmaster.ca

Mohawk College

Mohawk College, in partnership with KF Aerospace, is bringing its four aviation programs together in one purpose-built, air side hangar at the John C. Munro Hamilton International Airport. Opening in August 2020, this hangar will be the focal point of aerospace training for manufacturing and maintenance companies throughout southern Ontario, with programs in Aviation Technician – Aircraft Maintenance, Aircraft Structures and Avionics program (prepares graduates for certification by Transport Canada as an Aircraft Maintenance Engineer AME-E) as well as Mechanical Techniques – Aerospace Manufacturing.

Applied research will continue on a number of projects for industry partners with both Mohawk College and McMaster University faculty researchers. Mohawk’s available expertise for aerospace includes its Additive Manufacturing Innovation Centre (AMIC). The state-of-the-art lab has DMLS and SLS capabilities and can partner with industry on applied research projects, while Mohawk College Enterprise is available to provide leadership and technology training and solutions.

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www.mohawkcollege.ca/about-mohawk/ideaworks
NIAGARA COLLEGE CANADA, WALKER ADVANCED MANUFACTURING INNOVATION CENTRE

Niagara College’s Walker Advanced Manufacturing Innovation Centre team specializes in engineering design, 3D laser scanning technologies, metrology, lean manufacturing processes and FDM/Polyjet additive manufacturing applications. We work with Southern Ontario businesses to bring ideas to life, from concept through to developing working prototypes, utilizing leading-edge technology, including state of the art equipment and software tools.

Industry partner engagements with the Centre result in successfully executed technical services, applied research projects, and/or course-based research projects, depending on the type of challenge, the level of risk involved (de-risking technology) and the scope/length of the project. Currently, Niagara College also manages the Southern Ontario Network for Advanced Manufacturing Innovation (SONAMI), a federally funded initiative to grow the quality and quantity of applied research projects and to support the Golden Horseshoe advanced manufacturing cluster.

QUEEN’S UNIVERSITY

Queen’s seeks to address aerospace’s toughest R&D challenges. Contact our Office of Partnerships & Innovation for more information:

- Prof. Il Yong Kim works with Bombardier Aerospace, PWC, Safran and other partners on multi-functional topology optimization for lightweight design and DfAM (Design for Additive Manufacturing).
- Prof. James Fraser uses inline coherent control of industrial lasers to help industry drill, laser-weld and laser-sinter lightweight alloy components with extreme precision and quality control.
- Prof. Hans-Peter Loock works with GasTOPS to monitor the condition of turbine engine lubricants in real time using multiplexed fluorescent spectroscopy.
- Prof. Brad Diak uses experimental and computational methods to help aerospace firms investigate casting and heat treatment of advanced lightweight alloys for optimal high-temperature service stability.
- Prof. Christopher Mechefske works with Bombardier Aerospace to minimize acoustic noise transmission into and throughout the fuselage.
- Prof. Ugo Piomelli models turbulent flows over engine nacelles in order to optimize their design.
- Prof. David Rival uses advanced experimental techniques and data assimilation to characterize vortex-dominated flows, transition and unsteady aerodynamics.
RYERSON UNIVERSITY, DEPARTMENT OF AEROSPACE ENGINEERING

The Aerospace Engineering Program at Ryerson University offers comprehensive education and research opportunities leading to undergraduate and graduate degrees. The program consists of 18 faculty members with 500 undergraduate students and 100 graduate students. The expertise of the faculty spans the aerospace field and includes advanced materials, manufacturing, propulsion, avionics, and automated systems. Faculty members work collaboratively with the aerospace industry on research and development projects. The undergraduate program offers a Bachelor’s degree with specialties in aircraft design, space systems, and avionics. The graduate program offers a Master of Engineering degree that focuses on development of specialized knowledge, and a Master of Applied Science degree which emphasizes applied research. A Doctor of Philosophy degree emphasizing fundamental research is also offered by the graduate program. The newest graduate degree is the Professional Master’s Diploma (PMDip), aimed at engineering professionals who wish to gain insight into aircraft certification and how it influences aircraft design and manufacturing.

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UNIVERSITY OF TORONTO, CENTRE FOR AERIAL ROBOTICS RESEARCH AND EDUCATION (CARRE)

The Centre for Aerial Robotics Research and Education (CARRE) is a University of Toronto initiative to unify research and teaching activities with the goal of transforming the nascent field of unmanned aerial systems.

CARRE is an interdisciplinary and cross-disciplinary Centre based within our Faculty of Applied Science & Engineering, with partners at several other institutions. The Centre has developed an industrial training and collaboration program and also directs key outreach and educational initiatives. For students, CARRE offers a Certificate of Emphasis in Aerial Robotics and opportunities for internships with industrial partners; for academic and industry members, CARRE manages collaborative research projects and access to early research results; for the public, CARRE serves as a coordinator for youth and indigenous community programs.

CARRE has established itself as a centre of excellence in Canada. The Centre is open to students, commercial, not-for-profit, and government organizations in Canada. For more information, visit www.carre.utoronto.ca.

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UNIVERSITY OF TORONTO, INSTITUTE FOR AEROSPACE STUDIES (UTIAS), FACULTY OF APPLIED SCIENCE AND ENGINEERING

Research and Training and Certification Capabilities

Undergraduate program in aerospace: Aerospace Major within the Engineering Science program in the Faculty of Applied Science and Engineering at the University of Toronto (BASc degree).

Graduate program in aerospace: PhD, MASc (thesis based), and MEng (course-based) degrees; current program includes roughly 70 PhD candidates, 60 MASc candidates, and 50 MEng candidates.

Advanced research in aeronautics and space, including environmentally sustainable aviation, aircraft flight systems, flight dynamics, simulation, aerodynamics, fluid dynamics, propulsion, combustion, computational fluid dynamics, flow control, materials, structures, uncertainty quantification, design under uncertainty, space and terrestrial mobile robotics, autonomy, including sensing, localization, control, learning, etc., dynamics and control of spacecraft and mobile robots, small satellites, unmanned aerial vehicles (UAVs).

Contact:
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UNIVERSITY OF TORONTO, INSTITUTE FOR MULTIDISCIPLINARY DESIGN AND INNOVATION (UT–IMDI)

The University of Toronto Institute for Multidisciplinary Design and Innovation (UT–IMDI) provides U of T engineering students with real-life training opportunities, involving them in practical, industry-based projects. The Institute promotes awareness of design and development challenges facing industry, with an emphasis on its multidisciplinary nature and evolving technology.

UT–IMDI programs create an environment that forges enriching connections between clients, students and faculty. The UT–IMDI Sponsored and Collaborative Project program enables industry to provide real-life projects to solve key issues that require an infusion of talented resources and business value. The Multidisciplinary Capstone course as well as our Master’s project course are other opportunities for companies to work with teams of engineering students under supervision of faculty expertise. These courses focus on addressing challenging problems facing industry. UT–IMDI also offers professional development workshops in which students receive the engineering skills to better equip them for working on UT–IMDI projects.

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Voted Canada’s most innovative university for 27 consecutive years, the University of Waterloo is a research-intensive, interdisciplinary, and industry-facing institution.

Canada’s largest engineering school offers research expertise to the aerospace industry including advanced manufacturing, energy and infrastructure, information and communications technology, nanotechnology and new materials, mechatronics and robotics, human factors, bioengineering, and management sciences.

The Faculty of Mathematics, including the Cheriton School of Computer Science, offers the largest concentration of academic math expertise in North America. Many disciplines collaborate and intersect as fundamental and applied research, with artificial intelligence and cyber-security bringing together researchers in Mathematics, Engineering and Arts.

Waterloo is home to the world’s largest post-secondary co-operative education program. Waterloo embraces its global industry collaborations and encourages research and commercialization partnerships with its faculty members and their graduate students.

Waterloo is helping to shape the future of the planet.

Contact:

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jackie.serviss@uwaterloo.ca

www.uwaterloo.ca/corporate-research-partnerships
YORK UNIVERSITY,
LASSONDE SCHOOL OF ENGINEERING

The Lassonde School of Engineering is a professional engineering school of York University located in Toronto, Ontario, Canada. It was established in November 2011 with funding from founding donor Pierre Lassonde, the Government of Ontario and York University. Currently, the school host four departments: Civil Engineering, Earth & Space Science & Engineering, Electrical Engineering & Computer Science, and Mechanical Engineering.

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Helping innovation take flight

For over 30 years, OCE has supported Ontario companies commercializing world-class emerging technologies.

We help move ideas from the lab to the marketplace by:

- Working with defense contractors to support innovative scale-up companies
- Providing access to early-stage R&D
- Leveraging 5G, next-generation networks, connected and autonomous vehicles and high performance computing platforms
- Maximizing investment impact through Canada’s Industrial and Technological Benefits (ITB) Policy
- Pioneering development of drones, rocket engines, smallsats, microsats and nanosats
- Working with key partners in government, industry and academia

www.oce-ontario.org | info@oce-ontario.org | Toll Free: 1.866.759.6014
Downsview Aerospace Innovation & Research (DAIR)

DAIR is a not-for-profit consortium of aerospace companies and post-secondary institutions who have come together to develop a physical hub at Downsview Park in Toronto, continuing the site’s long tradition of aerospace excellence. The objective of DAIR is to strengthen Canada’s aerospace sector by increasing collaborative R&D, accelerating technology adoption, helping SMEs scale-up, and addressing the projected skills shortage. With Centennial College’s new aerospace campus and Ryerson’s aerospace lab onsite now, and plans underway for future activity, DAIR can act as a catalyst to bring key players to a centralized location to enable more effective collaboration and training.

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### Aliptera Inc.

### Canadore College

### Carleton University

### Centennial College

### Centre for Business, Supply Chain Program, George Brown College

### Consortium for Aerospace Research and Innovation in Canada (CARIC)

### Downsview Aerospace Innovation & Research (DAIR) See ad page 97

### Federal Economic Development Agency for Southern Ontario

### Humber College

### INO

### McMaster Manufacturing Research Institute (MMRI) - McMaster University

www.MMRI.mcmaster.ca  
Work collaboratively with MMRI, leveraging our knowledge, equipment and personnel to develop intelligent solutions for your production and product challenges.

### Mohawk College

### National Research Council – Aerospace

www.NRCaerospace.gc.ca  
NRC Aerospace conducts research and technology development related to the design, manufacture, qualification, performance, use and maintenance of air and space vehicles.

### Niagara College Canada, Walker Advanced Manufacturing Innovation Centre

### Ontario Centres of Excellence (OCE) See ad page 92

### Queen’s University

### Ryerson University, Department of Aerospace Engineering

### Sault College

### Sheridan College

### University of Guelph School of Engineering
In aerospace, UOIT has specific expertise in thermodynamics and heat recovery systems, wireless sensor technology and communication, reconfigurable antennas, and big data analytics for machine health. As well, UOIT hosts the ACE research and testing facility with chambers and technology for climatic, structural durability, and life cycle testing.

The University of Ottawa is a post-secondary institution providing bilingual training at the undergraduate and graduate levels in a broad range of disciplines.

The Mechanics and Aerospace Design Laboratory (MADL) at University of Toronto offers exciting opportunities to researchers to work in cutting edge research that is challenging, stimulating, and goes beyond the boundaries of current knowledge. We are unique in the sense that we combine highly sophisticated modelling and simulation techniques to real industrial problems and our work is essential to engineering practice. Our experimental facilities help advance our research and make new discoveries, as well as train our graduate students to utilize latest techniques in design and analysis. We cover a wide spectrum of mechanics, materials and design problems spanning the different length and time scales; from nanometres and femtoseconds to metres and seconds. Our innovative research in nano-reinforced composite structures for self-health monitoring systems, functionally graded materials, superhydrophobic surfaces, thermal barrier coatings for gas turbine engines, and foreign object damage to aircraft are at the forefront of aviation technology.

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www2.mie.utoronto.ca/labs/madl
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NOW OPEN!
Centennial College Downsview Campus:
Centre for Aerospace and Aviation

Phil Arthurs
Director of Operations, DAIR
phil.arthurs@dairhub.com
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