

**Business Events** 





# CANADA IN FOCUS

**Discover Canada for** 

**Business Events** 

Destination Canada's Business Events team is charged with growing Canada's share of international business events by promoting the country's unique meeting, convention and incentive event possibilities.

37.5M **Total Population<sup>1</sup>** 

19.1M Total Workforce<sup>1</sup> **1.3M Businesses**<sup>1</sup>

\$2.0T Total GDP<sup>1</sup>



**CANADA RANKS 1ST** IN THE G7 FOR **QUALITY OF LIFE<sup>2</sup>** 



**CANADA RANKS 2ND IN** THE G7 IN OVERALL BEST **COUNTRY RANKINGS<sup>2</sup>** 



Business events play a crucial role in economic growth. When destinations focus on their intellectual assets in a particular industry or sector sphere, they can help local industries accelerate ahead of those in other communities to become leaders in their field. By aligning our strategies with Canada's leading innovation industries, we are creating a thoughtful, community-based approach to business event attraction that unites tourism, industry, academia, government and economic development agencies, lifting up culture, art, community confidence and pride, and ultimately, innovation."

CHANTAL STURK-NADEAU Executive Director, Business Events, Destination Canada Business Events

There is no substitute for the creativity and energy that ignites when groups of like-minded people come together in the same place. When organizations choose to host their event in one of Canada's centres of excellence, they not only gain access to some of the world's safest, greenest, creative and culturally diverse and dynamic destinations—they also gain access to their industry's thought leaders and innovators. These opportunities not only promote the transfer of knowledge, but they can lead to future collaboration, talent attraction, trade, investment and future leisure travellers. Such is the power of business events as a catalyst for economic nourishment and social and cultural change."

Senior Director of Business Development, Economic Sectors, Destination Canada Business Events



# OPEN UP TO A HOST OF NEW CONNECTIONS

Canadian advanced manufacturing hubs are a natural draw for conferences across a wide range of sub-sectors. When combined with vast landscapes, diverse cities and culture, dynamic culinary and nightlife experiences and unique opportunities to explore groundbreaking ideas, it's easy to understand why organizations the world over are choosing Canadian locations to host their advanced manufacturing events.

With homegrown ingenuity, strong commitment to research and development and a highly educated and skilled workforce, Canada is driving the advanced manufacturing sector beyond the modern age and into the future.

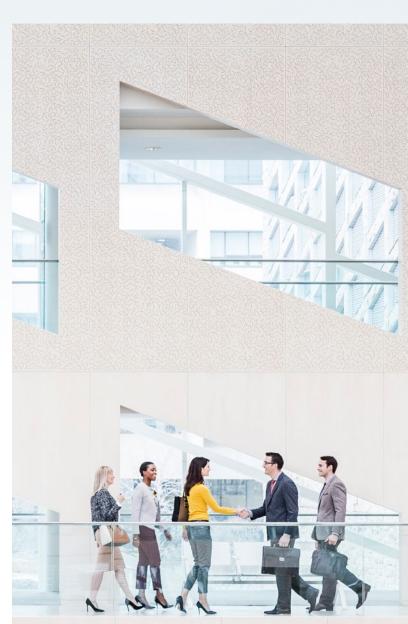
This is making a difference across sectors that range from aerospace and defence to additive manufacturing. When conference-goers meet in our advanced manufacturing hubs, they can tap into Canada's brain trust, connect with some of our brightest minds, preview made-in-Canada solutions and explore Canadian technologies powering the future. And when top performers are recognized and rewarded with Canada's unparalleled destinations and distinctive experiences, they'll return home refreshed. inspired and ready to perform.

Isn't it time for you to meet with purpose in Canada? Connect with us to learn how.

businessevents@destinationcanada.com

2019 Statistics Canada

Front cover image: Downtown Montréal, QC. © Stéphan Poulin





What characterizes advanced manufacturing? And why is Canada a world leader?

First, advanced manufacturing includes everything from automotive to aerospace manufacturing; from chemicals to plastics to rubber manufacturing. And the main reason Canada is a world leader is that advanced manufacturing importantly reflects innovation—which includes everything from robotics to 3D printing to Al. Here are a few additional reasons why:

#### **INNOVATION AND SUPPORT**

Canada is the first country in the G20 to offer a tariff-free zone for industrial manufacturers, allowing investors to import advanced machinery and equipment from their parent companies free of import duties. Together with Canada's straight-line depreciation method, this means foreign investors can quickly write off their capital investments.

**The Next Generation Manufacturing Supercluster** connects manufacturers, technology providers, researchers, schools, government, investors and business networks to build Canadian world leadership in manufacturing, innovation and competitive performance. This vital Supercluster is expected to contribute over \$13.5B to Canada's GDP over 10 years.

The Strategic Innovation Fund (SIF) provides \$1.26 billion-plus in funding over 5 years to support innovation in Canada's leading industries.

\$201B manufacturing sector contribution to GDP Source: Statistics Canada, 2019

\$378B annual **exports** in the manufacturing sector Trade Data Online, 2019

**1.7M jobs** in advanced manufacturing

robots per 10,000 employees in Canada—**74% greater** than the world average Source: IFR International Federation of Robotics 2019

**WORLD-LEADING R&D** 

opportunities for businesses.

technologies.

reconstruction surgery.

vehicles.

Canada's leading research institutions are driving innovation in

National Research Council Canada's (NRC) Advanced Manufacturing

Program performs R&D on advanced materials and manufacturing

**Mechatronics (IRM)** is developing intelligent robots and devices that

systems for rescue and exploration, military and security applications.

The Additive Design in Surgical Solutions Centre focuses on R&D

implants, surgical tools and intra-operative guides. Innovations include

and commercialization of additively manufactured medical devices,

3D-printed surgical guides and jaw implants for patients requiring

**The Canadian Centre for Field Robotics at York University** is

vehicles capable of operating in complex outdoor environments,

creating a field robotics laboratory for research into terrestrial robotic

unmanned aerial vehicles, aquatic robotics and unmanned underwater

will help advance medicine and health care, as well as autonomous

the field of advanced manufacturing and creating growth

The University of Toronto's Institute for Robotics and

**FDI PROJECTS CAPEX BY** ADVANCED MANUFACTURING **SUB-SECTOR, JAN 2015-MAY 2020** 



- ☐ Plastics and Rubber
- Consumer Products Aerospace and Defense
- Machinery
- Wood and Paper ■ Transport Equipment

Source: fDI Markets

A total of **269** announced and opened foreign direct investment (FDI) projects in advanced manufacturing were made in Canada between January 2015 and May 2020.

#### **THRIVING SUB-SECTORS:**

among the top 10 countries leading 3D printing development.

**Automation and advanced robotics:** Thanks to a robust innovation environment, strong government support, and a world-leading education system, Canada ranks 5th on *The Economist*'s Automation Readiness Index.

**Automotive:** The world's first self-driving forklift was designed in Canada to reduce material handling costs, increase process throughput to react to changes on the factory floor in real time.

**Healthcare:** North America's first "fully digital" hospital, The Humber River Hospital in Toronto, uses robots for patient care.

**Additive manufacturing:** Canada ranks

and improve plant safety with the ability

### Our establishment in Canada represents a major step in our group's development.

- **Mikel Charritton**, Co-Manager of the Lauak Group [a France-based company that specializes in manufacturing tubes to transport fuel, water, air and liquids feeding various airplane systems]

#### **NOTABLE INVESTMENT ANNOUNCEMENTS**

Lauak (France) announced in February 2020 an expansion of its factory in Mirabel, Quebec, adding industry 4.0 digital equipment, establishing a centre of excellence, and creating several dozen new jobs. The Government of Canada invested \$3 million towards new equipment for this project.

Mitsubishi Aircraft Corporation (Japan) announced in September 2019 a \$135 million investment and the creation of up 250 jobs at its new Spacejet centre in Montreal.

General Motors (USA) invested \$170 million in May 2019 to transition its Oshawa plant to stamping, sub-assembly and autonomous vehicle testing, retaining 300 jobs.

Toyota (Japan) announced an investment of \$1.4 billion in May 2018 to expand its operations in Cambridge and Woodstock, creating 450 new jobs.

**Nokia (Finland)** received funding in January 2019 to support projects valued at \$214.6 million in Kanata and Mississauga, Ontario. The Government of Canada's \$40 million investment earmarked for 5G R&D will help maintain Nokia's workforce of over 2,000 employees in Canada and creates 237 new iobs.

Louisiana Pacific (USA) invested \$161 million in January 2019 in Dawson Creek, BC to manufacture and distribute building products, creating 69 direct jobs and 200 indirect jobs. The Government of Canada invested \$4.5 million in this project.

Tekna Plasma Systems (Norway) announced in June 2018 a \$128.4 million project in Sherbrooke, Quebec to produce innovative metallic powders used in 3D printing, creating 170 new jobs.

#### **NOTABLE COMPANIES IN ADVANCED MANUFACTURING**

































#### CONTACT

**Invest in Canada** promotes, facilitates and accelerates foreign direct investment (FDI) into Canada. It is the global investor's primary point of contact. Reach out to speak with a dedicated advisor.

info@invcanada.ca | www.investcanada.ca



Data last updated October 2020, provided by Invest in Canada.







# CANADA'S ADVANCED MANUFACTURING CENTRES OF EXCELLENCE

YUKON

**BRITISH** COLUMBIA

**CALGARY** 

navigation

hardware

Additive manufacturing

• Advanced communications and

· Communications and navigation

· Custom software development and

• Geospatial data collection and analysis

• Manufacturing, maintenance, repair and

equipment manufacturing

Electronics and component

Drone manufacturing

manufacturing

overhaul (MMRO)

**NORTHWEST TERRITORIES** 

#### **EDMONTON**

- Bio-industrials
- Biotechnology
- Electrical equipment and components
- Machinery
- Nanotechnology
- Sensors and systems integration

ALBERTA

SASKATCHEWAN

NUNAVUT

#### **WINNIPEG**

- Additive manufacturing
- Aerospace manufacturing
- Garment manufacturing
- Heavy vehicle and equipment manufacturing

**MANITOBA** 

**HUDSON BAY** 

#### **TORONTO**

- Additive manufacturing
- Aerospace
- Automotive/e-mobility
- Cleantech
- Flexible electronics
- Robotics

**ONTARIO** 

### **WATERLOO**

- Aerospace and aviation
- Automotive
- Robotics and automation

#### MONTRÉAL

- · Additive manufacturing
- Aerospace
- · Innovative manufacturing
- IoT platforms and connectivity
- Robotics

QUÉBEC

- · Sensing and imaging
- Smart and electric transportation

NEWFOUNDLAND AND LABRADOR

#### **OTTAWA**

- Defence sector hardware, software and system engineering
- Development and integration of defence and security products
- · Electronics manufacturing
- · Repair, overhaul and long-term support of defence systems
- · Systems integration

THE MARITIMES: PRINCE EDWARD ISLAND **NOVA SCOTIA NEW BRUNSWICK** 

# ADVANCED MANUFACTURING SUB-SECTORS

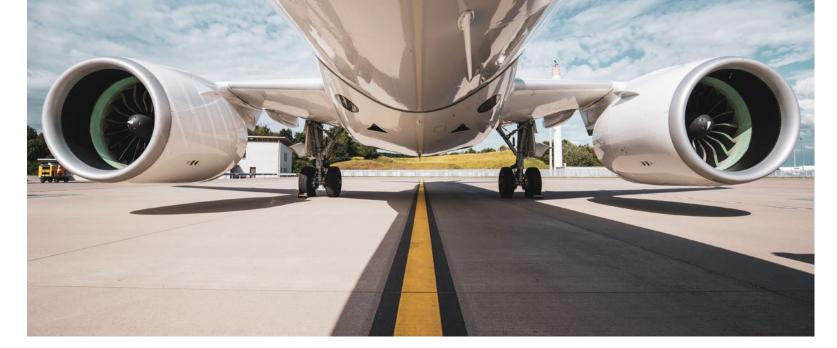
#### **Segments/Subsectors include:**

- > Additive manufacturing (3D printing)
- Advanced building products
- Advanced communications and navigation (aerospace)
- Advanced materials/high-resistance metallic materials
- Advanced materials/polymers
- Advanced robotics and mechatronics
- Agricultural equipment manufacturing
- > Automotive/autonomous vehicles
- Component manufacturing
- Composite materials

- > Digitization of manufacturing
- Drone manufacturing
- > Equipment manufacturing
- Industrial machinery
- Metal fabrication
- Nanotechnology
- Petrochemical products
- Precision machining
- > Smart packaging
- Smart textiles
- Transportation equipment manufacturing (automotive, aerospace and defence)



Advanced manufacturing is the ongoing development and integration of cutting-edge technologies that add value to and improve manufacturing products and processes.



# **SUPERCLUSTERS**

When small-, medium- and large-sized companies, academic institutions, and non-profit organizations come together to generate bold ideas, **regional innovation systems are transformed.** 

Harnessing the power of collaborative R&D, a \$950M investment by the Government of Canada matched by the private sector unlocks the power of data-driven innovation across a spectrum of industries that make up Canada's five superclusters: digital technologies, protein industries, advanced manufacturing, artificial intelligence and blue ocean science.



## CANADA'S ADVANCED MANUFACTURING SUPERCLUSTER

Based in Ontario and led by the non-profit Next Generation Manufacturing Canada, the Advanced Manufacturing Supercluster is building next-generation manufacturing capabilities by incorporating technologies like robotics and 3D printing. The supercluster is positioning Canadian companies to lead industrial digitalization, maximizing competitiveness and participation in global markets. Around the world, "Made in Canada" is recognized as excellence in innovative manufacturing.

To date, the Advanced Manufacturing Supercluster has been involved in more than 90 projects, with a total project value of over \$350M. This has directly supported approximately 1,110 jobs. Organizations that have supported the supercluster include MaRS, Communitech, Mitacs, Aéro Montréal, CRIAQ, IBM and Hockeystick.

## ARTIFICIAL INTELLIGENCE-POWERED SUPPLY CHAINS (SCALE AI)

A consortium of private entities, research centres, academic institutions and high-potential startups, the Montréal-based Scale Al Supercluster is the central pillar of Canada's Al ecosystem. The supercluster identifies cross-sector collaborative projects and provides funding and expert guidance to strengthen and improve the productivity of supply chains through the integration and responsible use of Al.



Innovative technology, significant investment in research and development and a reputation for quality products all contribute to Canada's position as a major player in the global aerospace and defence sector. Canada's aerospace and defence industries are integral in driving economic growth and are backed by an impressive workforce of approximately 73,000 Canadians.<sup>3</sup>

#### → Did You Know...

The province of Alberta's aerospace and defence sector, which includes Calgary, ranges from air transportation to remotely piloted aircraft systems. The sector employs over 10,000 people and contributed \$1.6B to GDP in 2016.4



#### → Did You Know...

Halifax has the highest concentration of Canada's military assets, including an air force base and the Maritime Warfare Centre. It's also home to nine of Canada's top 10 defence companies, over 30% of the country's leading defence companies and more than 6,000 experts, technicians, researchers, planners and makers employed in the aerospace field.<sup>5</sup>

#### → Did You Know...

A globally recognized aerospace hub and Canada's largest cluster, Greater Montréal is home to more than 36,000 highly qualified aerospace workers and 200-plus aerospace companies. In 2020, Greater Montréal placed first for FDI Strategy in fDi's Aerospace Cities of the Future 2020/21 rankings.<sup>6</sup>

#### → Did You Know...

Canada is the world's fifth-largest aerospace market.<sup>7</sup>

#### **RESEARCH LEADERSHIP**

#### Calgary

- Aerospace Network, University of Calgary
- Southern Alberta Institute of Technology's Centre for Innovation and Research in Unmanned Systems

#### Winnipeg

 Red River College Technology Access Centre for Aerospace and Manufacturing

#### Ottawa

- › Aerospace Research Centre, National Research Council
- > David Florida Laboratory, Canadian Space Agency
- > Defence Research and Development Canada

#### Montréal

- Polytechnique Institute of Innovation and Design in Aerospace
- > Consortium for Research and Innovation in Aerospace
- > Institute for Aerospace Engineering, McGill University
- Institute of Aerospace Design & Innovation, Concordia University

#### **SUCCESS STORIES**

Located in the Greater Toronto Area, MDA has been awarded the contract **to establish the technical requirements to build Canadarm3**, a smart robotic system for the Lunar Gateway space station that will orbit the moon.

In December 2020, Magellan's Winnipeg facility reached a significant milestone: **delivery of the 200th set of F-35 Lightning II horizontal stabilizer assemblies** under an agreement with BAE Systems.

Home to the highest concentration of Canada's military assets, Nova Scotia and its capital city Halifax attract world-renowned companies working in **naval defence**, **shipbuilding**, **sonar and sensing**, in-service support, cybersecurity and training and simulation.

Pratt & Whitney Canada announced plans in July 2021 to advance its hybrid-electric propulsion technology and flight demonstrator program as part of a \$163M investment, supported by the governments of Canada and Quebec.

ce and Defence

**4-**Budget 2020-23: Fiscal Plan, 5-Business Events Halifax

uébec Ministry of Economy d Innovation, 2020; Financi 7International Trade
Administration



With its clear days and cooler temperatures, manufacturers and suppliers in the aerospace, automotive and industrial sectors flock to Canada to test how their products endure extreme weather. In addition to having ideal conditions, Canada has made significant investments in cold weather testing research and state-of-the-art facilities-making it a leader in this area.

#### The Cold Standard

Yellowknife, Northwest Territories, is a premier cold weather destination for the aerospace industry due to its reliable and consistently cold winters. Yellowknife Airport is the North's major expediting hub and home to unparalleled institutional expertise when it comes to operating and maintaining aircraft in consistently extreme cold conditions.

#### → Did You Know...

Yellowknife is Canada's coldest winter city with 105 cold days (-20 degrees Celsius and below) and 52 very cold days (-30 degrees Celsius and below).8

"As the major gateway airport to the Northwest

Territories, conditions at Yellowknife Airport in the winter are cold, clear and dry. Yellowknife Airport has all of the facilities and services required to be a testing site,

coupled with airport-based businesses that understand

the needs of the aerospace industry."

KATRINA NOKLEBY

NWT Minister of Industry, Tourism and Investment

#### **SUCCESS STORIES**

Texas-based Bell Helicopter dispatched more than 40 employees and two of its large, next-generation 525 Relentless helicopters to Yellowknife from January to March 2019 in order to have the new model certified by Canadian, US and European authorities. With temperatures dipping to -40 degrees Celsius, the conditions were ideal for the testing required.

#### → Did You Know...

Winnipeg is home to GE's Aviation Engine Testing, Research & Development Centre. When coupled with the joint Rolls Royce/Pratt & Whitney facility in Thompson, more than 80% of the world's new jet engine models receive certification testing in Manitoba.

#### **COMPANIES HOSTED**

- Airbus
- > Bell Helicopter
- > BMW
- Bombardier Aerospace
- Gulfstream Aerospace
- Porsche
- Raytheon
- Sikorsky

#### **SUCCESS STORIES**

Located in Winnipeg, the GE Aviation Testing Research and Development Centre was established to perform **development** and certification testing of GE Aviation's fleet of aeroengines, which represent more than 60% of the world's installed commercial aircraft engine fleet. The Centre's original focus of performing icing certification to ensure flight safety has since expanded into other areas, including bird, dust and hail ingestions, as well as endurance testing.

**Northern Air Transport Association Conference and Trade Show** 

2021 Yellowknife, NT



Environment Canada





Across Canada, organizations are revolutionizing manufacturing by tapping into the power of advanced robotics to automate tasks. This innovative technology is helping to dramatically improve operations, drive greater efficiencies and improve worker safety across sectors that range from automotive to aerospace.

#### → Did You Know...

Waterloo is home to the largest robotics and automation cluster in Canada (2021).9

#### → Did You Know...

University of Alberta ranks first in Canada and 12th in North America in the field of robotics research.



#### **RESEARCH LEADERSHIP**

#### Calgary

> School of Manufacturing and Automation, Southern Alberta Institute of Technology

#### Toronto

- > Robotics Institute, University of Toronto
- > Ryerson University Robotics, Mechatronics and Automation Laboratory

#### Montréal

- > Robotics Laboratory, École Polytechnique
- Control and Robotics Laboratory, École de technologie supérieure

#### **SUCCESS STORIES**

New technology from Waterloo-based DarwinAl, called Explainable AI, helps manufacturers enable new processes, unlock efficiencies and increase profitability through inspection and defect detection and adaptive factory automation. This company has worked with industry giants like Audi and Lockheed Martin to drive manufacturing and automotive innovation.

A new collaboration between the Calgary-based robotics company Attabotics and AI and machine learning (ML) partners AltaML and Amii is helping to bolster Al/ML capabilities for supply chains.

Canada is home to a diverse range of worldrenowned manufacturing firms that are embracing advanced technologies—including additive manufacturing. Commonly referred to as 3D printing, additive manufacturing creates three-dimensional objects by adding layer upon layer of material. It has the potential to enhance productivity, reduce lead times, improve internal processes and ensure sustainable production.

#### → Did You Know...

University of Waterloo Multi-Scale Additive Manufacturing Lab will be Canada's first major advanced manufacturing technology commercialization centre.



#### **RESEARCH & ACADEMIC INSTITUTIONS**

#### Winnipeg

> Red River College Composite Model Factory

> University of Waterloo Multi-Scale Additive Manufacturing Lab

#### Toronto

York University Electronics Additive Manufacturing Lab

#### Montréal

- > Reseau Quebec-3D Initiative. Centre de recherche industrielle du Québec
- > Concordia University Centre for Composites

#### **SUCCESS STORIES**

Winnipeg-based Precision ADM uses **metal additive** manufacturing as a core technology to make highvalue components and devices for global customers in the medical, aerospace, energy and industrial sectors. The company's innovations have led to reusable masks with the development of Precision Air, a reusable N95 Mask.

Apollo Machine and Welding in Edmonton is driving innovation with the adoption of laser cladding technology and advanced 3D printing-and enhancing productivity and capacity as a result.





In Calgary, more than 1,600 businesses employ 44,400 people in the manufacturing and advanced manufacturing sectors. As one of the most cost-competitive cities in Canada and the US. Calgary is attractive for business development and operating costs in drone manufacturing, as well as for communications and navigation equipment research and development and manufacturing. The city is investing more than \$1B into its meetings and conventions infrastructure, making it one of the most sought-after destinations for global business events.

**Canadian Geotechnical Society** - GeoCalgary

**Forum National Conference** 

2022

2024

40,700 EMPLOYED IN THE MANUFACTURING SECTOR<sup>10</sup>

**10,000** EMPLOYED IN THE AEROSPACE AND **DEFENCE SECTOR<sup>11</sup>** 

1,616 MANUFACTURING BUSINESSES<sup>12</sup>

108 AEROSPACE & DEFENSE **BUSINESSES<sup>13</sup>** 

Canadian Apprenticeship

\$259M TO BE INVESTED IN **DIGITAL TRANSFORMATION IN CALGARY'S MANUFACTURING SECTOR BY 2024<sup>14</sup>** 

#### → Did You Know...

Alberta is home to Foremost UAS Test Range—a space that allows for training, research and development for civil and commercial purposes, and is especially well suited for beyond visual line of sight (BVLOS) flights. It's one of only two operational unmanned test ranges in Canada.

#### → Did You Know...

Calgary is one of the first major cities in North America to offer city-owned land for commercial drone flights.<sup>15</sup>

→ Did You Know...

DAVID WOODWARD

**Tourism Calgary** 

Calgary's innovation ecosystem

and entrepreneurial mindset is

driving immense growth in the advanced manufacturing sector, particularly in drone, component

and communication and navigation

equipment manufacturing. And with

Calgary's incredible investment

of more than \$1B into events and hospitality, we will soon be the largest

convention destination in Western

success of meeting in one of North

Executive Director, Meetings & Conventions

Canada. There is no limit to the

America's most livable cities."

Alberta is home to 25% of Canada's unmanned aerial vehicle, geospatial and navigation companies, most of which are based in the Calgary region.<sup>16</sup>

#### **COMPANIES**

- Attabotics
- August Electronics
- Blackline Safety
- Exro Technologies
- Hexagon Autonomy & Positioning
- > Peraton Canada
- > SMART Technologies Inc.
- Tangent Engineering
- Vikina Air

#### **ACCELERATING INNOVATION**

- > Alberta Centre for Advanced MNT Products (ACAMP)
- > TECTERRA

Conference infrastructure

15,000 **GUEST ROOMS** 

2,000 Gala 24.619 m<sup>2</sup> (265,000 ft<sup>2</sup>) **AT BMO CENTRE\*** 

\*Expanding to 1M ft<sup>2</sup> by 2024

111,484 m<sup>2</sup> (1.3M ft<sup>2</sup>) TOTAL MEETING SPACE

3,600 Gala 11,334 m<sup>2</sup> (122,000 ft<sup>2</sup>) **AT CALGARY TELUS CONVENTION CENTRE** 

#### **Noteworthy Innovations**

Alberta Centre for Advanced MNT Products (ACAMP) and TELUS have joined forces to **integrate next-generation** mobile technologies with autonomous systems and robotics applications.<sup>17</sup>

Western Canada's first autonomous shuttle was made in Calgary. Electric Autonomous (ELA) was a fully autonomous shuttle using 3D mapping developed by Hexagon Positioning Intelligence that transported passengers between the Calgary Zoo and the TELUS Spark Science Centre.

#### **POST-SECONDARY & RESEARCH INSTITUTIONS**

- Bow Valley College
- Mount Royal University
- Southern Alberta Institute of Technology
- University of Calgary

NAICS 31-33, Labour Force Survey, Statistics Canada, 2020 Budget 2020-23: Fiscal Plan,

NAICS 31-33, Canadian Business Counts, Statistics Canada, December 2020

NAICS 3364, 481, 4881 and 9111, Canadian Business Counts, Statistics Canada, December

City of Calgary



# **EDMONTON**

Edmonton is a leader in advanced manufacturing and a centre of excellence in subsectors such as nanotechnology, additive manufacturing and health-related manufacturing. Combined with a variety of event facilities, yearround festivals and Canada's largest entertainment district, there's little wonder why experts and organizations jump at the opportunity to meet in the city.

#### → Did You Know...

Over the last decade, on a per capita basis, the Edmonton region outperformed any major city in Canada in manufacturing sales.

Society of Manufacturing Engineers, Western Manufacturing **Technology Show** (WMTS)

NanoCanada International Conference 2022

Safety Engineering

2022

| 2021

**50.900** EMPLOYED IN **CENSUS METROPOLITAN AREA MANUFACTURING SECTOR IN 2019<sup>18</sup>** 

\$28B ADVANCED **MANUFACTURING GOODS SOLD IN THE REGION<sup>18</sup>** 

**3**RD LARGEST CONTRIBUTOR TO TOTAL MANUFACTURING **GDP IN CANADA<sup>18</sup>** 

**\$200M+ sold in** 12 SUB-CATEGORIES OF **MANUFACTURED GOODS IN** 2020

**Canadian Society of** 

3,696 MANUFACTURING **BUSINESSES IN EDMONTON METROPOLITAN REGION<sup>19</sup>** 



With SME's Membership Chapter 370 Northern Lights, along with our Western Manufacturing Technology Show, Edmonton has been an important manufacturing marketplace that SME has supported for many years. Providing 40% of Alberta's manufacturing output and with a rapidly growing advanced manufacturing cluster, Edmonton continues to be an important part of our Canadian strategy to support and advance manufacturing and its future workforce."

Senior Director, Canadian Events and Event Strategy, SME (Society of Manufacturing Engineers)

### **Noteworthy Innovations**

ACAMP, TELUS and Edmonton International Airport have partnered to advance Alberta-made autonomous technologies.

G2V manufactures the most advanced LED solar simulators and commercial horticulture lighting automation products.

Adven Industries manufactures advanced materials using reclaimed carbon for use in applications such as energy storage and medicine.

#### **COMPANIES**

- Cleankeys
- Flexxaire
- Karma Manufacturing
- > Levven Electronics
- Logican

MagnetTx

61,858 m<sup>2</sup> (665,841 ft<sup>2</sup>) TOTAL MEETING SPACE

3,400 Gala

48,495 m<sup>2</sup> (522,000 ft<sup>2</sup>)

AT EDMONTON **EXPO CENTRE** 

- Micralyne
- Silent Aire Titan Logix
- Wika Instruments

#### **ACCELERATING INNOVATION**

› Alberta Aerospace Technology Centre

Conference

12,738

**GUEST ROOMS** 

4,700 Gala

AT THE EDMONTON

**CONVENTION CENTRE** 

12,225 m<sup>2</sup>

(131,590 ft<sup>2</sup>)

infrastructure

- Alberta Centre for Advanced Microsystems and Nanotechnology Products
- Alberta Manufacturing and Fabrication Innovation Program
- Bio Processing Innovation Centre
- Edmonton Research Park
- InnoTech Alberta
- NanoFAB Centre
- National Institute for Nanotechnology

#### **POST-SECONDARY & RESEARCH INSTITUTIONS**

- > Alberta Machine Intelligence Institute
- North Alberta Institute of Technology
- University of Alberta

Statistics Canada

DB Hoovers, May 2020



2018

# WINNIPEG

Winnipeg is an advanced manufacturing powerhouse. Home to world-renowned organizations. a highly skilled labour force and competitive manufacturing tax credits, the city is at the forefront of driving progress in the advanced manufacturing sector. Access to industry and academic thoughtleaders is one of the many reasons why organizations choose to meet in Winnipeg each year—not to mention that it's easy to access from many cities in North America.

#### → Did You Know...

Manitoba has 12 unique research and development facilities.

#### → Did You Know...

Winnipeg is the largest aerospace manufacturing hub in Western Canada, boasting the third-largest volume of aerospace products and parts exports in the country.

Statistics Canada

32,400 MANUFACTURING **EMPLOYEES IN WINNIPEG** 

(58.600 IN MANITOBA)20

CWB Group, CanWeld

Conference & Expo

\$5.712B GDP CONTRIBUTED **TO MANITOBA'S MANUFACTURING** 

**SECTOR IN 2020**<sup>21</sup>

844 ADVANCED **MANUFACTURING COMPANIES IN WINNIPEG** (1.383 IN MANITOBA)22

| 2018

Crane Rental Association of

Canada, Annual Convention

#### → Did You Know...

Winnipeg has the largest centre for heavy vehicle and equipment manufacturing in North America, and is fast becoming a leader in technologies to cut greenhouse gas emissions.

#### → Did You Know...

Winnipeg enjoys strong industry support from groups such as the Prairie Coalition for Advanced Manufacturing, WestCaRD and Canadian Manufacturers and Exporters Manitoba.

Winnipeg's advanced manufacturing sector is one of the nation's best. Our city is home to 12 unique research and development facilities and is the largest aerospace manufacturing hub in Western Canada. Innovative companies and a well-connected industry generate opportunities for strong programming

and knowledge sharing for delegates."

**DAYNA SPIRING President and CEO Economic Development Winnipeg** 

## Conference infrastructure 7,100 **GUEST ROOMS** 56,000 m<sup>2</sup> (604.000 ft<sup>2</sup>) **TOTAL MEETING SPACE** 9,000 Gala 24,526 m<sup>2</sup> (264,000 ft<sup>2</sup>) AT RBC CONVENTION CENTRE

#### **Noteworthy Innovations**

Electric bus maker New Flyer Industries is developing **battery** electric and hydrogen electric zero-emission Xcelsior CHARGE transit buses and J4500 CHARGE highway coaches.

In response to the COVID crisis, Price Industries modified one of its key products—fan filter unitsto address essential service needs during the pandemic. The system, which is typically used in clean rooms or pharmaceutical compounding areas to scrub contaminants or viral particles out the air, was **retrofitted to** create negative pressure isolation rooms to house COVID-19 patients. It was first used in hospitals, followed by temporary health-care facilities.

#### **COMPANIES**

- **Buhler Industries**
- Emergent BioSolutions
- MacDon Industries
- New Flyer Industries (NFI Group)
- Palliser Furniture

- Pollard Bank Note
- > Precision ADM
- > Price Industries
- Western Glove Works
- Winpak

#### **ACCELERATING INNOVATION**

- Manitoba Technology Accelerator
- North Forge Technology Exchange

#### **POST-SECONDARY & RESEARCH INSTITUTIONS**

> Red River College

University of Manitoba





Waterloo is a global technology hub that's playing a powerful role in advanced manufacturing. With more than 1,950 manufacturing companies across a diverse range of sectors—along with globally recognized academic institutions, groundbreaking research and a world-renowned talent pipeline—the region is redefining what's possible in manufacturing innovation. Waterloo is also home to Canada's largest robotics and automation cluster.

#### → Did You Know...

Graduates living in Waterloo are more likely to have studied science, technology, engineering or mathematics than anywhere else in Canada (2020).

#### → Did You Know...

Waterloo continues to provide exceptional value when it comes to the cost and quality of tech talent.<sup>23</sup>



2018, 2019

HI-AM Holistic Innovation in Additive Manufacturing Conference

AutoTech Symposium

Annual

| 2022 (online)

1,950+ MANUFACTURING **COMPANIES SPECIALIZING** IN ROBOTICS, AUTOMATION, **AUTOMOTIVE AND** AEROSPACE<sup>24</sup>

**57,000 EMPLOYEES IN WATERLOO'S MANUFACTURING** INDUSTRY<sup>25</sup>

18.6% PERCENTAGE OF TOTAL LABOUR FORCE **THAT MANUFACTURING ACCOUNTS FOR<sup>25</sup>** 



#### → Did You Know...

**Chamber of Commerce** 

University of Waterloo is home to Canada's largest engineering school and was ranked top in Canada for engineering, computer science and mathematics.<sup>26</sup>

Waterloo has a culture of collaboration

and although our global reputation is in

tech, our foundation is in manufacturing. The strengths that have made Waterloo a global technology hub have also

cutting-edge robotics and automation. Waterloo Region has the local expertise,

infrastructure and knowledge cluster that has made our annual Manufacturing

Summit a success for over 10 years."

President & CEO, Greater Kitchener Waterloo

made our community a leader in

#### → Did You Know...

Waterloo Region's manufacturing sector is the fourth largest in Canada.27

#### **COMPANIES**

- ATS Automation
- > Beckhoff
- Bosch
- Christie Digital Systems
- Clearpath Robotics
- Eclipse Automation
- > DESCH
- Honeywell Aerospace
- Rockwell Automation
- Toyota Canada

### **Noteworthy Innovations**

Conference

**TOTAL GUEST ROOMS** 

**TOTAL MEETING SPACE** 

CONFERENCE CENTRE

2,800

55,741 m<sup>2</sup>

600.000 (ft<sup>2</sup>)

1,200 Gala

AT BINGEMANS

4,314 m<sup>2</sup> 46,000 (ft<sup>2</sup>)

infrastructure

Designed specifically for automotive manufacturers, Acerta LinePulse is a machine learning (ML) platform that uses product and production data to **enhance** testing, accelerate root cause analysis and improve throughput.

#### **ACCELERATING INNOVATION**

- Accelerator Centre
- Catalyst 137
- Communitech Hub
- LaunchPad
- Velocity
- WatCAR

#### **POST-SECONDARY & RESEARCH INSTITUTIONS**

- Conestoga College
- Wilfrid Laurier University
- University of Waterloo

Statistics Canada, 2020



# **TORONTO**

Toronto is a leading research location in the manufacturing sector, and has a tech-oriented workforce that's 300.000 strong. In addition. Canada's most populous city has one of the highest densities of engineers and STEM workers in North America, as well as the country's second-largest aerospace cluster-making it a pioneer in automotive and robotics research. and a magnet for advanced manufacturing events.

#### → Did You Know...

The province of Ontario is home to Canada's second-largest aerospace cluster.

#### → Did You Know...

The Toronto Region accounts for over half of all automotive workers in Ontario and rivals many US states in terms of employment, including Tennessee and Kentucky.



| 2022

Association for Computing Machinery, SIGCSE **ACM Technical** Symposium on Computing Science Education

**American Control** Conference

Control Council.

**American Automatic** 

| 2024

| 2023

300.000 **MANUFACTURING EMPLOYEES**<sup>28</sup>

**15,000 EMPLOYEES IN AUTOMOTIVE AND AEROSPACE HUBS IN THE TORONTO REGION<sup>29</sup>** 

\$13.5B REGIONAL GDP IMPACT<sup>30</sup>

~14.000 TOTAL **MANUFACTURING ESTABLISHMENTS** 

160 AEROSPACE **MANUFACTURING FIRMS** 

#### → Did You Know...

The Toronto Region is Canada's largest logistics hub, home to two international airports, multiple intermodal terminals, ports with access to Europe, and is conveniently located less than two hours by car from the US border.



With one of the highest number of

engineers and STEM workers in North America along with Canada's second-largest aerospace cluster, Toronto is home to a thriving advanced manufacturing industry. Conferences that choose to meet here benefit from the leading talent, thought-leadership and meaningful conversations that drive this sector."

TARA GORDON

Senior Vice-President of Global Sales & Services, **Destination Toronto** 

#### **COMPANIES**

- > ABB Ltd.
- > Bombardier Aerospace
- General Motors
- Honeywell
- Magna
- Mitsubishi Heavy
- Praxair
- Siemens

Northstar

Industries

Aerospace

Parker-Hannifin

#### **ACCELERATING INNOVATION**

- Creative Destruction Lab
- MaRS Discovery
- District
- > Ryerson DMZ
- Vector Institute

> REMap

#### **POST-SECONDARY & RESEARCH INSTITUTIONS**

- > Durham College
- Ontario Tech University
- University of Toronto
- Ryerson University

- Sheridan College

# York University

#### **Noteworthy Innovations**

Conference

36.000

**GUEST ROOMS** 

4,470 Gala

55.741 m<sup>2</sup>

(600,000 ft<sup>2</sup>)

infrastructure

AT THE METRO TORONTO

**CONVENTION CENTRE** 

3,260,000 m<sup>2</sup>

**EXHIBITION SPACE** 

> METRO TORONTO

> EXHIBITION PLACE > THE INTERNATIONAL

AT FOUR MAJOR

CENTRE

CENTRE

**TOTAL MEETING AND** 

**CONVENTION CENTRES:** 

**CONVENTION CENTRE** 

TORONTO CONGRESS

(35,090,347 ft<sup>2</sup>)

The United Nations International Atomic Energy Agency designated Ontario Tech University as a Collaborating Centre—which makes it the first Canadian institution to receive the international designation.

Electric vehicle maker BYD opened its first bus assembly plant to produce zero-emission vehicles for the Toronto Transit Commission, which is located north of Toronto

GM's newest Canadian research and development facility-the Canadian Technical Centre-is just outside of Toronto and features cutting-edge test labs for end-to-end software development.

24





# **OTTAWA**

Ottawa is a leading tech innovator in the advanced manufacturing space, especially in the aerospace, defence and engineering sectors. Canada's capital city is also home to several top-ranked STEM educational institutions. When organizations host business events in Ottawa, they gain access to some of the country's best R&D leaders, private sector experts, as well as government and academic speakers—all in a cosmopolitan, centrally located conference destination.

#### → Did You Know...

Ottawa has the highest tech concentration in North America, with the sector representing 11.3% of the workforce (ahead of San Francisco at 10.5%).



| 2022

Conference of Defence **Associations Institute Annual** Conference

Annual

**77.000 EMPLOYED IN** THE TECH SECTOR31

10,000 EMPLOYED IN THE **AEROSPACE, DEFENCE AND SECURITY SECTOR<sup>32</sup>** 

300 COMPANIES IN **AEROSPACE. DEFENSE** AND SECURITY SECTOR-**INCLUDING 85 IN CYBERSECURITY**33

#### → Did You Know...

Ottawa is home to Area X.O, operated by Invest Ottawa. The state-of-the-art facility offers a safe and secure environment to create, test and demonstrate future mobility, autonomy and connected technologies.



Ottawa has proven itself to be the ideal host community for our annual defence trade show—CANSEC—for over two decades. The city is a hotbed of innovation and research for both the public and private sectors and one of the reasons why CANSEC has continued to attract over 12,000 national and international registrants year over year. The ability to reach a concentrated and highly skilled advanced manufacturing audience, coupled with a professional service sector, means there is an ease of doing business in Ottawa that's hard to find elsewhere."

PAUL KEOGH Vice President, Operations, Canadian Association

of Defence and Security Industries (CADSI)

#### **Noteworthy Innovations**

Provectus Robotics is testing a range of unmanned ground vehicles at Area X.O. The robotics firm was recently acquired by the Rheinmetall Defence of Germany.

Ottawa-based Gastops Ltd. provides system monitoring solutions to the aerospace industry to **reduce** operating costs, improve reliability and dispatch availability and enhance safety. As a supplier for Lockheed Martin, their sensors are installed on each of the company's F-35 aircrafts.

#### **COMPANIES**

- Abbott POC
- Babcock Canada
- > BAE Systems
- General Dynamics Mission Systems
- Lockheed Martin Canada
- > Thales Defence
- > Turnstone Biologics
- Siemens Healthineers

#### **ACCELERATING INNOVATION**

Conference

10.000

**GUEST ROOMS** 

125,425 m<sup>2</sup>

**TOTAL MEETING SPACE** 

AT THE SHAW CENTRE

(1.350.062 ft<sup>2</sup>)

3,840 Gala

17,837 m<sup>2</sup>

(192,000 ft<sup>2</sup>)

infrastructure

- > Bayview Yards, Ottawa's Innovation Hub
- Bayview Yards Prototype Lab
- Carleton University Cybersecurity Lab (with General Dynamics)
- > Centre of Excellence in Next Generation Networks
- Invest Ottawa Venture Path Programing
- > L-SPARK
- University of Ottawa Cybersecurity Lab (with IBM)

#### **POST-SECONDARY & RESEARCH INSTITUTIONS**

- Carleton University
- Communications Research
- David Florida Laboratory at the Canadian Space Agency
- Defence Research and Development Canada
- University of Ottawa

- National Research Council Canada
  - · Advanced Electronics and Photonics Research Centre
  - · Aerospace Research Centre
  - Canadian Photonics **Fabrication Centre**
  - Nanotechnology Research Centre



# MONTRÉAL

Montréal's is a world-class centre for leading-edge manufacturing, thanks to its cutting-edge technologies, strategic location, world-class research institutions and highly qualified talent pool. The city's dynamic startups and research centres are especially active in collaborative robotics. 3D printing, advanced materials and smart textiles. Montréal's advanced manufacturing sectoralong with its vibrant culture, gourmet dining and diversity of accommodations-draw some of the world's brightest minds, and some of the most prestigious business events.

#### → Did You Know...

Manufacturing is the second-largest industry in Quebec. Montréal is a collaborative environment for industrial automation, including multiple research centres and networks.

The Conference Board of

**IEEE International** Conference on Robotics and Automation

2019

13th International Symposium on

Supercritical Fluids 2022

**Engineers 2024 Annual Conference** & Expo

and Systems

Institute of Industrial

| 2024

**231.400** JOBS IN **GREATER MONTRÉAL<sup>34</sup>** \$29B REPRESENTED **IN MONTRÉAL'S MANUFACTURING SECTOR35** 

6.300 MANUFACTURING **COMPANIES IN GREATER MONTRÉAL**36

#### → Did You Know...

Montréal is Canada's university capital, with 11 universities and 60 colleges. Over 40,000 students are enrolled in a university program linked with manufacturing innovation.



Montréal has long aligned the conferences it hosts with the industries it excels in. We firmly believe that the conference experience can be enriched by including local players and activities at many levels: field trips, keynote speakers, research collaborations, youth engagement, academia, startup incubators and others. As Montréal has been a leader for many years in advanced manufacturing, we believe that conferences from this sector would be right at home in our city."

MYLÈNE GAGNON

Vice-President Sales and Convention services, **Business Events Montréal** 

#### **COMPANIES**

- ABB
- Airbus
- > Bombardier
- > BRP
- > CAE

## **ACCELERATING INNOVATION**

- Centech
- District 3

Lion Electric

Nova Bus

Siemens

Thales

- Creative
- Next Al Scale Al
- Destruction Lab

### **POST-SECONDARY & RESEARCH**

Concordia University

**INSTITUTIONS** 

- École de Technologie Supérieure
- HEC Montréal
- McGill University
- > Polytechnique Montréal

## Conference infrastructure

36,800 **GUEST ROOMS IN** GREATER MONTRÉAL

16.300 **GUEST ROOMS DOWNTOWN WITH** 4.000 **CONNECTED TO THE CONVENTION CENTRE** 

97,289 m<sup>2</sup> (1,047,220 ft<sup>2</sup>) **TOTAL MEETING SPACE**  3,240 Gala 51.280 m (551,520 ft<sup>2</sup>) AT THE PALA **DES CONGRÈ** DE MONTRÉAL CONVENTION CENTRE

#### **Noteworthy Innovations**

Longstanding partners Safran and Polytechnique Montréal have set up new research chairs dedicated to designing a new lighter, cleaner, quieter, more reliable and carbon-neutral aircraft.

Professor Roland Maranzana, co-founder of Numérix laboratory, has developed innovative **solutions** for digital factories. Including an analysis and interpretation technology for 3D models of mechanical components—which lets manufacturers quickly locate existing products and accelerate the development of new products by promoting re-use.

Polytechnique Montréal Professors René Mayer and Sofiane Achiche are developing automated smart tracking and diagnostic technologies for use on machines. Based on the notion of Al and machine learning (ML), these technologies can detect deviations in precision and anticipate malfunctions in machine tools.

Statistics Canada, 2020





Leadership across the spectrum of industries not only makes Canada a competitor on the world stage, but an innovation leader. Business events, like advanced manufacturing, accelerate progress and provide a platform for a year's worth of business to take place over the course of just a few days. Such events lead to the innovation and reinvention so critical to the economic recovery of businesses and the communities in which they operate and meet.

Business events are a fundamental source of learning, research and information sharing. Organizations that meet here gain access to Canadian industry and academic thought leaders, while also having the opportunity to take part in **educational site visits** to research institutions, startups, businesses and more.

International business events are magnets for content-hungry individuals and for those with investment resources. Impressed by Canadian infrastructure, talent and ready access to key markets, the largest advanced manufacturing companies in the world are **expanding or relocating to Canada**. These local subject-matter experts can enhance speaker schedules and help champion events to grow membership and revenues.

Business events have the power to inspire the next generation, sparking innovation. Today's advancements in areas like IoT and robotics will transform the way the world makes products. Many of the emerging technologies driving the industry forward are being developed in Canada.

Canada's dynamic cities and urban innovation centres may be a natural draw for business events, but they also provide international travellers with a taste of Canadian culture, cuisine and our vast, dramatic landscapes, **fuelling the desire** to return with family and friends for future leisure travel.

# CANADA: A NATURAL REWARD FOR TOP ADVANCED MANUFACTURING PERFORMERS

A place not just to explore—but to connect, celebrate the extraordinary and realize the potential within us. Around the globe, advanced manufacturing organizations and leaders are leveraging cutting-edge technologies to push the limits of what's possible. Recognizing their teams' efforts in Canada will leave an indelible mark on the heart of their organizations.

Want to inspire and celebrate your top achievers with your next incentive event? Let Canada show you the way.



**LOOKING FOR MORE INSPIRED INCENTIVE IDEAS?**Connect with us to learn more.

→ businessevents@destinationcanada.com

## RAISE YOUR GLASS IN CELEBRATION OF YOUR TEAM'S ACCOMPLISHMENTS.

Sitting on the shores of Lake Ontario, **Niagara-on-the-Lake** is one of the country's most productive, picturesque wine regions—an exceptional location in which to reward and recognize your top performers with a wine tasting and dinner at a vineyard.



#### GO WILD ON A POLAR SAFARI. Churchill, on

Canada's **Hudson Bay**, is ranked one of the world's best places to see polar bears in the wild. Along with a Polar Safari, treat your team to a gourmet dinner and be mesmerized by ribbons of colour dancing across the night sky. This only-in-Canada event pairs history and nature with delicious cuisine and spirits.



#### **BE INSPIRED BY CREATIVE ENERGY.**

Cosmopolitan, creative and chic, an invitation to celebration in **Montréal** is always motivating. Be amazed with an exclusive Cirque performance at Gare Dalhousie, where Cirque du Soleil first began. Ideal as a standalone reward, Montréal also pairs perfectly with **Québec City** or **Tremblant Resort** for dual-destination incentives.



#### THE GREATEST OUTDOOR SHOW ON EARTH.

An endless sea of denim and cowboy hats take over **Calgary** as the city transforms into one of Canada's premiere celebrations—a tribute to Canada's old west, a celebration of music, food and culture that's sure to impress your top performers. Even if this isn't your first rodeo, the Calgary Stampede is unlike any other event.



oriniosh of the state of the st

**EXPERIENCE THE AURORA.** When it comes to bucket list items, seeing the Northern Lights is right up there with skydiving and bungee jumping—and the Northwest Territories is the place to do it. Capital city **Yellowknife** has been dubbed the Aurora Capital of North America—but the entire territory provides unrivaled opportunities to see the skies explode with reds, blues and greens.



Northumberland Strait, aside from being home to the luxurious **Fox Harb'r** Resort—a favourite golf and spa retreat—is also one of eastern Canada's celebrated wine regions. From sip and savour events at Jost Vineyards to an elegant dinner among Fox Harb'r's own oceanfront vines, memories of these sommelier-hosted events linger long after the last drops are poured.





## NO ONE KNOWS CANADA LIKE WE DO

Destination Canada's Business Events Team offers in-depth knowledge of Canada. Our team can help you deliver compelling content audiences want to consume when they meet in Canada. Connect with us for solutions and support on the fundamentals of meeting in Canada, including where to meet and recommended innovation hubs best suited to your specific event. Allow us to make introductions to our cross-country network of meeting and event partners, advanced manufacturing experts, leaders and innovators, and those who can help champion your event, augment your program, grow your membership and event audiences, and deliver a return on your event investment.

Consider Destination Canada your first point of contact when considering Canada for your event.

#### **FIND OUT MORE**

- businessevents.destinationcanada.com/en-CA
- → #meetincanada



# Virginie De Visscher Senior Director, Business Development, Economic Sectors DeVisscher.Virginie@destinationcanada.com +1 204 802 0920



Pamela Wilton
Business Development Manager, Advanced Manufacturing
Wilton.Pamela@destinationcanada.com
+1 204 223 1922