SMART MANUFACTURING

Waterloo is home to a thriving technology cluster solving real-world challenges and catalysing smart manufacturing advancements.

WATERLOO IS INVENTING THE FUTURE

Backed by 150+ years of experience, Waterloo has a proven track-record of manufacturing expertise. The highly-skilled workforce, coupled with a robust collaborative research community, helps organizations around the world improve production, increase revenue, reduce operating costs, improve quality, and deliver real-time actionable data, all the while identifying ways to streamline and automate the relationship between human and machine.

AT A GLANCE – WATERLOO’S SMART MANUFACTURING ECOSYSTEM

Rich density of smart manufacturing hubs and incubators:

- Conestoga College’s Centre for Smart Manufacturing
- Waterloo Centre for Automotive Research (WatCAR)
- University of Waterloo (UWaterloo) Engineering 7 Building (focus on additive manufacturing, robotics and mechatronics)
- Centre for Advanced Materials Joining (CAMJ)
- Centre for Pattern Analysis and Machine Intelligence (CPAMI)
- Waterloo Institute for Nanotechnology

World’s Largest IoT Space

Catalyst137 is the world’s largest IoT Manufacturing space with a 475,000 square foot campus.

20% of All Jobs

Manufacturing accounts for approximately 20% of all jobs in Waterloo.

1800+ Thinkers

Internet of Things Waterloo Region is one of the largest IoT communities with 1800+ thinkers, makers and entrepreneurs who are co-creating the future.

Advanced Manufacturing Supercluster

One of 5 Superclusters funded by the Government of Canada, with more than 130 participants – including many Waterloo companies, organizations and institutions – the Advanced Manufacturing Supercluster is focused on building the next-generation of manufacturing capabilities. Focus areas will include IoT, machine learning, cybersecurity, and additive manufacturing.

INTERNATIONALLY RECOGNIZED AND LOCALLY SIGNIFICANT COMPANIES

INTERNATIONAL

PEPSICO FOODS, ALMENTS
Toyota Motor Manufacturing Canada Inc.
TELEDYNE DALSA
Everywhereyoulook

DESCH AUTOMATION SOLUTIONS
Rockwell Automation

LOCAL

CHRISTIE
OCTOPUS
CLEARPATH ROBOTS
Acerta

Looking to locate, relocate or expand?
As a manufacturer of self-driving vehicles for industry, OTTO Motors (a division of Clearpath Robotics) is redefining how inventory moves in the workplace – whether it’s boxes, carts, bins or shelves. Started in a basement by four Waterloo university friends who loved building robots, the founders of what eventually became Clearpath saw an opportunity to simplify robotics research.

“The ecosystem in Waterloo was perfect for creating the company here,” says Cam Davies, Director of Marketing for OTTO Motors. “Our first investors and customers were all in the Waterloo Region; and our first employees were graduates of the University of Waterloo. In fact, UW alone is an extremely strong reason why we’re here, because so much talent and innovation related to what we do out of there.”

SMART MANUFACTURING SPECIALIZATIONS

Automation and Robotics  
Additive Manufacturing  
Aerospace and Defense  
Automotive  
Digitization of Manufacturing  
Food Processing  
Mechatronics

WATERLOO. COLLABORATIVE. INVENTIVE. ENTREPRENEURIAL.

• Futureproof talent pool of 72,000+ students from three internationally recognized post-secondary institutions – University of Waterloo, Wilfrid Laurier University, Conestoga College – which produce graduates with 2+ years relevant, real-world work experience.

• UW is home to the world’s largest concentration of math and computer science talent.

• Waterloo is centrally and strategically located within the Toronto-Waterloo Corridor and provides access to more than 150+ million people.

• Thriving Start-up Community – second highest density of start-ups in North America.

• One of Canada’s most innovative regions, with an average of 15 patents granted per 10,000 people (11 times the national average).

• Supportive and Collaborative Ecosystem with 150+ research centres working together to make an impact and support a risk-taking approach to solving real world challenges.