Artificial Intelligence (AI) is rapidly progressing and changing the relationship between man and machine. With technology that stretches across such a huge array of sectors, from banking and retail, to healthcare and manufacturing, the market for AI is predicted to skyrocket to $47 billion by 2020.

Waterloo is at the center of Canada’s strategy to be a global AI leader. Our specialities include Autotech, Big Data, Internet of Things (IoT), machine/deep learning, robotics, and autonomous vehicles. Well ahead of the AI game, the University of Waterloo has been conducting research in AI for approximately 50 years, and has attracted attention from industry leaders through programs like the Amazon Alexa Fund Fellowship Program.

**FASTER, BETTER AND CHEAPER**

**LOCAL PLAYERS MAKING INTERNATIONAL HEADLINES**

**Thalmic Labs**
*Received funding of $120 million USD in 2016*

Creators of interactive wearable technologies, Thalmic Labs is making scientific breakthroughs to reinvent the human relationship with computers.

**Maluuba (Microsoft)**
*Acquired by tech giant Microsoft & part of Microsoft’s Artificial Intelligence and Research organization*

Founded by University of Waterloo alumni, Maluuba’s vision is to solve ‘Artificial General Intelligence’ by creating literate machines that can think, reason and communicate like humans.

**BlackBerry QNX**

QNX is a top provider of middleware, development tools, real-time operating system software and services for superior embedded design; their newest software platform will power autonomous drive and connected cars.

**WHERE AI LEADERS BUILD & CREATE**

**SAP Labs Canada**

SAP Labs Waterloo office offers in-depth product knowledge on SAP HANA, insurance industry solutions, edge technology and IoT solutions.

**General Motors Canada**

GM’s “innovation research zone” is where future mobility is headed. They are focused on exploring and experimenting with advanced smartphone applications, new ride-sharing services and urban mobility.

**Thomson Reuters Innovation Lab**

Thomson Reuters Innovation Labs collaborates with customers to solve big problems and rapidly prototype and validate solutions using data science and lean techniques.

**MORE TOP PLAYERS INCLUDE:**

- Aeryon Labs Inc.
- Carnegie Technologies
- Clearpath Robotics Inc.
- ETAS
- Miovision Technologies Inc.
- TrustPoint Innovation
INVENTING THE FUTURE OF AI

Home to the world’s largest concentration of math and computer science talent, UWaterloo is well-equipped to lead AI Innovation.

- **Computer Science department** offers courses including Introduction to AI, Advanced Topics in AI, Intelligent Computer Interfaces and Machine Learning.
- **Electrical and Computer Engineering** is Waterloo’s largest academic department.
- Unique inventor-owned intellectual property policy drives innovation and promotes the formation of industry-academic collaborations.
- Waterloo’s co-op program is the largest of its kind in the world and produces industry-ready graduates with 2 years of work experience.

SOME FOCUS RESEARCH AREAS INCLUDE:

- Natural language understanding
- Machine learning
- Reasoning under uncertainty
- Robotics and autonomous systems
- Cooperative intelligent systems
- Human-machine interaction
- Data mining and knowledge discovering
- Just to name a few!

TOP UWATERLOO RESEARCH INSTITUTES:

- Artificial Intelligence Group
- Centre for Pattern Analysis & Machine Intelligence
- Institute for Quantum Computing
- Waterloo Autonomous Vehicles Lab
- Green and Intelligent Automotive (GAIA) Research Lab

AI TECHNOLOGY HUBS

- **Accelerator Centre** gives you the resources and guidance you need to grow all areas of your business, get your product to market faster, and scale globally
- **Catalyst137** is driving an innovative and dynamic advanced manufacturing ecosystem including 450,000 square feet of co-working space and shop floor environments for high-growth scale-ups
- **Communitech Data Hub** is Canada’s destination for companies seeking resources to grow their data-enabled business; Artificial Intelligence is one of four special interest zones
- **Communitech Innovation Hub** helps tech companies start, grow, and succeed with 80,000+ square feet of co-working space, the perfect environment for business and tech acceleration
- **Internet of Things Waterloo Region** is one of the largest IoT communities with 1800+ members; a space for thinkers, makers and entrepreneurs to co-create the future