

# CANADIAN ARTIFICIAL INTELLIGENCE AND INDUSTRY 4.0

●●● Research and development partnering mission to Germany  
January 19 to 24, 2020

Canada and Germany have a long history of collaboration with the goal of advancing market-driven research and development, encouraging joint projects between businesses from both countries.

## ADVANCED INTELLIGENT SYSTEMS INC.

[www.ai-systems.ca](http://www.ai-systems.ca)

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Advanced Intelligent Systems (AIS) designs practical robotic applications, based on robots as a service model, for industries faced with labour challenges. AIS created autonomous robotics hardware modules embedded with proprietary artificial intelligence (AI) and internet of things (IoT)-enabled software for spacing plant pots, and is working on a few other prototypes.

AIS is seeking partners to validate AIS technology (e.g., for BigTop, AIS Connect, etc.), to develop joint new products or services, as well as manufacturing partners. Preferred organizations are German firms with expertise in AgTech, industrial IoT, robotics, AI, CloudRobotics, BigData and industrial machinery manufacturing.

## NTWIST INC.

[www.ntwist.com](http://www.ntwist.com)

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NTWIST Inc. is an artificial intelligence (AI) company building an industrial process decision management platform. They enable high performance in industrial facilities by integrating facility control systems (SCADA, DCS and PLC) with AI to drive throughput, reduce costs, and maximize profit.

NTWIST Inc. is seeking the opportunity to engage in research and development with mining or metal manufacturers to implement AI, and in advanced AI research (e.g., reinforcement learning). Their preferred partners will have access to industrial data.

## CONTEXTERE CORPORATION

[www.contextere.com](http://www.contextere.com)

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Contextere is an industrial software company transforming the future of work by using machine learning to develop a mobile intelligent personal agent that empowers the workforce and improves asset performance by delivering actionable intelligence to workers in the field and on the factory floor.

Contextere is seeking to collaborate with industrial end-users, systems integrators, enterprise or Internet of Things software companies, and applied research organizations with expertise or interest in predictive maintenance and knowledge capture, or representation in digital twins and data engineering.



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## KOGNITIV SPARK

[www.kognitivspark.com](http://www.kognitivspark.com)

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Kognitiv Spark is a world leader in supporting frontline workers through mixed reality. Built for the Microsoft HoloLens, their RemoteSpark software provides a secure, low-bandwidth connection between workers and resources by reducing expert travel, minimizing equipment downtime, and empowering your workforce.

Kognitiv Spark is seeking partners with expertise in artificial intelligence, computer vision, and integrating Internet of Things, as well as working with digital assets who would benefit from visualizing data as digital twins while remaining heads-up and hands-free.

## LABSCUBED

[www.labscubed.com](http://www.labscubed.com)

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LabsCubed enables companies to create new and innovative materials faster through automated test equipment, innovative data management and machine learning algorithms. LabsCubed's proprietary system autonomously tests and analyzes specimens to eliminate human error and greatly reduce labour.

LabsCubed seeks to collaborate with firms that develop or test new polymers and elastomers. Their ideal partner will also have knowledge and expertise in artificial intelligence and machine learning specifically targeted towards industrial or material-development applications to further expand the scope of their capabilities.

## NGEN

[www.ngen.ca](http://www.ngen.ca)

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NGen is Canada's advanced manufacturing supercluster, a not-for-profit dedicated to positioning Canada as a leader in advanced manufacturing. It aims to strengthen the competitiveness of manufacturers and drive innovation with over \$200 million in funding for collaborative industry-led projects.

NGen is looking for international partners that can fill knowledge and technical gaps in Canada's advanced manufacturing ecosystem.

## STACKTECK

[www.stackteck.com](http://www.stackteck.com)

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StackTeck is a global provider of integrated plastic tooling solutions for the injection moulding industry. From product and mould design to complete systems integration, StackTeck develops injection moulds and systems for the caps, closures, thin wall packaging, technical, and medical markets.

StackTeck preferred partners have extensive experience and knowledge in artificial intelligence, machine learning, and digital twins to be used in the design process of manufacturing. This includes implementing the software and the hardware and information technology system's architecture.

## GLOBAL VEHICLE SYSTEMS LTD.

[www.globalvehicle.ca](http://www.globalvehicle.ca)

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Global Vehicle Systems Ltd. is a North American leader in the market of automated manufacturing equipment. They specialize in designing and building custom-made assembly equipment for tiered automotive parts manufacturers, with a focus on plastic engine components, fuel tanks, interior and exterior trim assemblies.

Global Vehicle Systems Ltd. is interested in collaborating with small to medium sized businesses that design and build custom-made assembly equipment such as tiered plastic automotive parts manufacturers, predictive maintenance software developers and firms specialized in adaptive inspection or quality measurement.

## DAOAI ROBOTICS INC.

[www.daoai.ca](http://www.daoai.ca)

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DaoAI Robotics Inc. developed an intelligent 3D bin-picking system that allows machines and robots to perform tasks such as accurately picking, placing, and assembling parts, which would not be possible with point-to-point repetitive automation systems. The system is a turn-key solution for manufacturers to improve automation rate.

DaoAI Robotics Inc. is looking for partners in the manufacturing industry with experience in automation systems— especially large automobile manufacturers— or system integrators for the automobile industry. Ideal partners also include companies interested in co-developing advanced high-precision 3D cameras for automation.

## ACERTA

[www.acerta.ca](http://www.acerta.ca)

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Acerta builds machine learning platforms for the automotive industry, and leverages production and vehicle data to locate the earliest indicators of future product failures. Acerta helps automakers optimize vehicle quality, safety, and reliability throughout the entire product life cycle.

Acerta's preferred partners are automotive original equipment manufacturers and Tier-1 suppliers. Automakers using a manufacturing execution system or other data collection strategy are ideally positioned to work with Acerta's machine learning analytics.

## SOLID STATE AI

[www.solidstate.ai](http://www.solidstate.ai)

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Solid State AI's software and services help advanced manufacturers increase yield and throughput. The software allows process and equipment engineers to predict equipment failures and systematic yield losses, and optimize equipment calibration in dynamic environments.

Solid State AI is seeking partners with robust manufacturing datasets that are willing to demonstrate beta software and provide feedback on functionality and user experience. In return, partners will get an early deployment of state-of-the-art software that will help increase yield and throughput.

## CLEARPATH ROBOTICS INC.

[www.clearpathrobotics.com](http://www.clearpathrobotics.com)

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Clearpath Robotics Inc. is Canada's largest manufacturer of intelligently guided autonomous robotic vehicles with over 5,000 systems deployed in 40 countries. OTTO Motors, a division of Clearpath Robotics, automates the transportation of goods and materials for advanced manufacturing and warehousing in automotive, aerospace, and consumer products.

Clearpath is seeking Industry 4.0 partners with expertise in perception and autonomy for robotic vehicles, artificial intelligence, Internet of Things sensors, 3D mapping, and digital twinning who are targeting applications in material transportation, workflow logistics, supply chain, advanced manufacturing, and assembly.

## ELEMENT AI

[www.elementai.com](http://www.elementai.com)

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Element AI is a global software company that develops artificial intelligence (AI) solutions through cutting-edge research to help businesses operationalize AI. Element AI has over 100 PhDs and maintains an open, collaborative approach to research.

Element AI's ideal partners run manufacturing operations in automotive, aerospace, bio tech, medical devices or pharmaceuticals across multiple production facilities. Quality reporting and analysis are also integral parts of their manufacturing processes.

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