



**UNIVERSITY
OF ALBERTA**

Innovation Catalyst Grant

Entrepreneurial Fellowship

uab.ca/icg

Cohort 1 (2023-2025)



Preetam Anbukarasu, PhD

Founder and CEO

preetam@synapsismedical.com

Advanced nanosensors and machine learning algorithms for cardiovascular health monitoring.



JONES MICROWAVE INC.

Thomas Jones, PhD

Founder and CEO

tom@jonesmicrowave.com

Award feature

Microelectronic solutions for advanced radar and communication applications in 5G/6G telecommunications, defense, satellite, and instrumentation markets.



Kyle Scheuer, MSc

Founder and CEO

kyle@ultracoustics.ca

Nature



Engineered to capture high-frequency acoustic signatures with precision, our wide-range ultrasonic microphones use light-based sensing to enable real-time process monitoring, fault detection, and non-destructive testing in diverse industrial environments.

Cohort 1 Success Stories



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Cohort 2 (2024-2026)

T.rex AI

Peter Atrazhev, MSc

Co-founder and CFO

peter@trex-ai.ca



T.rex AI's product is an AI-driven, decentralized, distributed energy resource orchestration tool, minimizing load variability and increasing grid resilience and hosting capacity.



ATMOSE

Tyler Johnson, PhD

Co-founder and CTO

tjohnson@atmose.ca

Aerosol Scientist Spotlight

Affordable and deployable aerosol technologies to reliably monitor air quality when and where it matters.



elementiam
materials and manufacturing

Rémy Samson, MSc

Co-founder and CEO

remy.samson@elementiam.ca



Advanced manufacturing company capable of automatically generating robot programs fully based on real-world data.



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Cohort 2 (2024-2026)



**Mohammad Rahim
Sobhani, PhD**

CTO

mohammad.sobhani@clinisonix.com

Handheld/wearable ultrasound systems for 2D/3D ultrasound imaging and bedside monitoring with quantum leap improvements in resolution, sensitivity, speed, and intelligence.



**AQUA-CELL
ENERGY**

Keith Cleland, MASC

Co-founder and CEO

keith.cleland@aqua-cellenergy.com

NAIT Feature

Salt water flow batteries to provide infrastructure for the clean energy transition. This sustainable battery alternative will unlock new markets for long duration energy storage.



**Ghulam Muhammad
Ali, PhD, MBA**

Founder and CEO

gali@sensiimage.com

AI-powered communication tool called HandCOMM to streamline heavy mobile crane operations and enhance safety and inclusivity across the construction industry.





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Cohort 3 (2025-2027)



RNAREVIVE

Mardin Fallah, PhD

Founder and CEO

afallah@rnarevive.com

Genetic medicine platform aimed at developing RNA-based therapies targeting osteoporosis.



Behnam Mazdouri, PhD

Co-founder and CEO

mazdouri@ualberta.ca

Microchip-based phase shifters and phased array antenna technologies for 5G and beyond communication systems.



Clayton Coutu, MSc

Co-founder and CTO

ccoutu@arosystems.ai



We help warehouses automate manual tasks with our AI based multitasking robots. Using different attachments, a single autonomous robot can manage various responsibilities.

Contact: **Claire Kay**
Program Manager
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