



**UNIVERSITY  
OF ALBERTA**

**Innovation Catalyst Grant**

Entrepreneurial Fellowship

[uab.ca/icg](http://uab.ca/icg)

## Cohort 1 (2023-2025)



### **Preetam Anbukarasu, PhD**

Founder and CEO

[preetam@synapsismedical.com](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto:gali@sensiimage.com)

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



Applications for Cohort 4 (2026-2028) are open