



Canadian Innovators Advance in the Deep Space Healthcare Challenge

📅 May 31, 2022 👤 Doug Messier 📁 News 💬 0 Comments

LONGUEUIL, Quebec (CSA PR) — The Canadian Space Agency (CSA) and Impact Canada have selected the 20 semi-finalists for the Deep Space Healthcare Challenge, a competition to develop innovative healthcare technologies for people living in remote communities now, and crews on long-duration space missions in the future.



The teams selected by the Deep Space Healthcare Challenge jury will receive \$30,000 in prize money and advance to Stage 2. In the second stage, semi-finalists will build a proof-of-concept that can generate data in a lab environment.

The semi-finalists are:

Organization	Location	Project name
Tidal Medical	Toronto, Ontario	Remote Detection of Respiratory and Cardiac Pathology using a Non-Invasive Diagnostic Wearable
Pelican MRI	Saskatoon, Saskatchewan	Ultralight MRI for Remote and Isolated Communities
Université de Montréal	Montreal, Quebec	SPRINT – Surface plasmon resonance intelligent nanosensor technology
University of New Brunswick	Fredericton, New Brunswick	An electrochemical sensor for rapid cancer biomarker detection
Applications MD	Saint Lambert, Quebec	EZResus
PLAKK	Montreal, Quebec North	Saving Lives One Scan at a Time: An Artificial Intelligence-Powered Ultrasound Guidance and Analysis Tool to Predict Stroke Risk
Pulsence	Vancouver, British Columbia	Pulsence

Organization	Location	Project name
Sonoscope Inc.	Longueuil, Quebec	Hands-free automated ultrasound diagnosis module
IndigenousTech.ai	Ottawa, Ontario	AI-powered Solution for Dermatology for Primary Care Practices in Remote Communities
LightX Innovations Inc.	Boisbriand, Quebec	LightX Innovations – Vision diagnostics
Swift Medical	Toronto, Ontario West	Pocketable, Skin and Wound Diagnostic and Monitoring Solution
Optican Systems Inc.	Vancouver, British Columbia	The OptiScan Near Infrared Probe for real-time Health Monitoring
ADGA Group Consultants Inc.	Ottawa, Ontario	AI-Powered Virtual Medical Assistant
Alentic	Halifax, Nova Scotia	Lensless Microscopy Diagnostic Platform
Neursantys Inc.	Calgary, Alberta	NEURVESTA: Remote management of neurovestibular and sensorimotor disruptions
Texavie	Vancouver, British Columbia	Autonomous, Comfortable, Health-Sensing and Therapy MarsWear Apparel For Deep Space and Remote Terrestrial Applications
McMaster University	Hamilton, Ontario	Heart-Tracker: A wearable platform for real-time monitoring of cardiac markers in interstitial fluid
Wosler Corp.	London, Ontario	Autonomous Diagnostic Ultrasound Services in Deep Space and Remote Communities
Luxsonic	Saskatoon, Saskatchewan	SieVRt Cardiac
Centre for Surgical Invention and Innovation (CSii)	Hamilton, Ontario	Development of an Autonomous and Tele-operable Medical Robot for Ultra Rapid Screening, Diagnosis and Treatment of Early Cancers and Other Needlescopic Interventions

For more information on the Challenge and project descriptions, please visit the [Impact Canada webpage](#).

Media interested in speaking with a CSA expert, or with any of the semi-finalists, may contact the CSA's media relations office: asc.medias-media.csa@asc-csa.gc.ca.

Additional links

- [Deep Space Healthcare Challenge | Impact Canada](#)
- [Health in space](#)
- [Heath Beyond Initiative](#)