

Innovation Proof-of-Concept Grant

Recipients List – July 2021

Stream 1: Manitoba-Based Consortium

Academic: **Cuneyt Akcora**, Department of Computer Science, Faculty of Science, University of Manitoba

Industry Partner: **Protegra Inc.**

Project Title: *Bonafide: Decentralized Services for Sharing and Searching User Generated Data*

Research Manitoba: \$150,000

Leveraged funds: \$390,000

Academic: **Andrew Goertzen**, Department of Physics & Astronomy, Faculty of Science, University of Manitoba

Industry Partner: **Cubresa Inc.**

Project Title: *Cubresa Novel DAQ Chassis for a Clinical BrainPET Insert System*

Research Manitoba: \$150,000

Leveraged funds: \$526,000

Academic: **Matt Khoshdarregi**, Department of Mechanical Engineering, Faculty of Engineering, University of Manitoba

Industry Partner: **Magellan Aerospace, Canfair Composites, Triple E RV & Eastside Industrial**

Project Title: *Autonomous Robotic Platforms for Aerospace and Vehicle Composite Manufacturing*

Research Manitoba: \$150,000

Leveraged funds (cash-only): \$410,000

Academic: **Aftab Mufti**, Department of Civil Engineering, Faculty of Engineering, University of Manitoba

Industry Partner: **Vector Corrosion**

Project Title: *Sustainable Infrastructure New Sustainable Corrosion Protection Techniques to Extend the Life of Reinforced Concrete Structures*

Research Manitoba: \$80,000

Leveraged funds: \$75,000

Academic: **Saman Muthukumarana**, Department of Statistics, Faculty of Science, University of Manitoba

Industry Partner: **ioAirFlow**

Project Title: *Assessing and Identifying Indoor environmental Quality Gaps in Commercial Buildings using Wireless sensors and Big Data Analysis Tools*

Research Manitoba: \$150,000

Leveraged funds: \$150,000

Academic: **Olanrewaju Ojo**, Department of Mechanical Engineering, Faculty of Engineering, University of Manitoba

Industry Partner: **Precision ADM**

Project Title: *Development of Additive Manufacturing for the Manitoba Aerospace Industry*

Research Manitoba: \$149,900

Leveraged funds: \$94,000

Academic: **Bram Ramjiawan**, Department of Pharmacology and Therapeutics (Medicine), Rady Faculty of Health Sciences, University of Manitoba

Industry Partner: **OmniLyte**

Project Title: *Evaluation of OmniSan 200* Anolyte Liquid as a Novel Hard Surface Disinfectant Against Human Coronavirus*

Research Manitoba: \$75,000

Leveraged funds: \$75,000

Academic: **Anuraag Shrivastav**, Department of Biology, Faculty of Science, The University of Winnipeg

Industry Partner: **VastCon Inc.**

Project Title: *Performance of N-myristoyltransferase 2 based blood test in detecting colorectal adenomatous polyps and cancer*

Research Manitoba: \$150,000

Leveraged funds: \$111,000

Academic: **John Sorensen**, Department of Chemistry, Faculty of Science, University of Manitoba

Industry Partner: **KGS Group**

Project Title: *Commercialization of bioactive natural products derived from plant beneficial bacteria*

Research Manitoba: \$150,000

Leveraged funds: \$75,000

Academic: **Christopher Storie**, Department of Geography, Faculty of Science, The University of Winnipeg

Industry Partner: **DecisionWorks & Arctic Gateway Group**

Project Title: *Remote Corridor Water Mitigation Project*

Research Manitoba: \$150,000

Leveraged funds: \$75,000

Academic: **Peter Zahradka**, Department of Physiology and Pathophysiology (Medicine), Rady Faculty of Health Sciences, University of Manitoba

Industry Partner: **Koven Technology Canada Inc.**

Project Title: *Broadening the vascular diagnostic service continuum of Koven Technology Canada through the development and validation of a novel in vitro diagnostic technology to diagnose peripheral arterial disease*

Research Manitoba: \$138,000

Leveraged funds: \$94,900

Stream 2: Manitoba Post-Secondary Researchers

Young Jin Cha, Department of Civil Engineering, Faculty of Engineering, University of Manitoba

Project Title: *Automated road surface damage detection and quantification using advanced deep learning*

Research Manitoba: \$100,000

Chase Figley, Department of Radiology (Medicine), Rady Faculty of Health Sciences, University of Manitoba

Project Title: *Application of a Novel 3D Centerline Extraction Algorithm for Automated Coronary Artery Mapping and Quantification*

Research Manitoba: \$100,000

Pooneh Maghoul, Department of Civil Engineering, Faculty of Engineering, University of Manitoba

Project Title: *Systems and Methods for Ultrasonic Characterization of Permafrost, Frozen Soil, and Saturated Soil Samples: Proof-of-Concept*

Research Manitoba: \$100,000

Aftab Mufti, Department of Civil Engineering, Faculty of Engineering, University of Manitoba

Project Title: *Enhancing bridge evaluation using data from real-time monitoring of bridges*

Research Manitoba: \$100,000

Tony Szturm, Department of Physical Therapy (Rehabilitation Sciences), Rady Faculty of Health Sciences, University of Manitoba

Project Title: *Rehab@Home: Bringing Interactive Rehabilitation Devices to Homes*

Research Manitoba: \$99,575

Qiuyan Yuan, Department of Civil Engineering, Faculty of Engineering, University of Manitoba

Project Title: *Innovative In-Line Phosphorous Removal and Recovery (IPRR) Systems*

Research Manitoba: \$100,000

Leveraged funds: \$50,000