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11TH ANNUAL CELEBRATION OF INNOVATION & ENTREPRENEURSHIP

McGill Engine Centre,
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McGill | Faculty of Engineering

THE CHWANG SETO INNOVATION FELLOWSHIPS PROGRAM SUPPORTS THE RECIPIENT AND THE TEAM ON THE DEVELOPMENT OF A TECHNOLOGY IN ORDER TO BRING IT CLOSER TO THE MARKETPLACE AND ALLOW THE FELLOW TO GAIN FURTHER KNOWLEDGE AND EXPERIENCE IN BUSINESS AND TECHNOLOGY COMMERCIALIZATION.

THIS PROGRAM IS MADE POSSIBLE THANKS TO THE CHWANG SETO FAMILY, IN HONOUR OF THE LATE RONALD CHWANG (B.ENG.'72, D. SC.'12), A PIONEERING ENTREPRENEUR AND VENTURE CAPITALIST WHO SERVED ON THE FACULTY OF ENGINEERING ADVANCEMENT BOARD.

2025-2026 CHWANG SETO INNOVATION FELLOWSHIP REVIEW COMMITTEE

Gilles Fayad (MEng'92 McGill in Electrical and Computer Engineering) spent his entire career launching new products. He is currently the Director of Initiatives at AI Commons and Advisor at IEEE Standards Association.

Tuba Yamac (PhD'98 Queen Mary University of London in Biomedical Materials, MSc'01 Queen Mary University of London in Management of Intellectual Property, BSc(Hons)'94 The University of Manchester in Materials Science) is a patent practitioner with a business-oriented international approach to IP protection and strategy. Her specific technical expertise is in medical technologies. Her specialties include global patent strategy, patent preparation, patentability and freedom-to-operate searching.

Eugene Yazbak (BEng'82 McGill in Chemical Engineering) is the Corporate Board Director of NanoSoft LLC. He has over 20 years of experience in leading instrumentation and manufacturing business development.

Professor Milica Popović (PhD'01 Northwestern University in Electrical Engineering) is Director of the McGill Engine, and a Chwang Seto Engine Faculty Scholar. Since 2001, Prof. Popović has been with the Department of Electrical and Computer Engineering at McGill University, where she currently holds associate professorship. Her teaching experience includes courses on electromagnetic fields, electrical measurements and antennas and propagation. Her research interests lie mainly in biomedical applications of electromagnetic theory. In particular, she and her research team are striving to develop a novel breast tissue monitor based on low-power microwave emissions. Prof. Popović is a Fellow of World Innovation Foundation, a Senior Member of IEEE and a member of Professional Engineers of Ontario.

Professor Brandon Xia (Ph.D.'03 Stanford University in Chemistry/Computational Biology, B.S.'95 Peking University in Chemistry) is the Canada Research Chair in Computational and Systems Biology, and a professor in the department of Bioengineering. His work focuses on genome-scale computer models of biomolecular networks with high spatial and temporal resolutions, probing biophysical and engineering principles of biological networks, and studying systems biology of diseases. He also specializes in computational structural biology, protein structure prediction and analysis, and bioinformatics algorithms for sequence, structural, and functional data. He is currently the Associate Dean, Research and Innovation for the Faculty of Engineering.

CHWANG SETO INNOVATION FELLOWSHIPS

Ehsan Yousefi, and Professor Inna Sharf both Mechanical Engineering

Project Title
Co-Planning Assistant for Navigation of Harvesting Machines

Summary
We propose to bring the AI-based co-planning assistant for navigation of timber-harvesting machines to a build–measure– learn loop in the field. This co-planner falls under the shared autonomy framework for field machines---the umbrella core technology developed over the past six years. Canadian timber-harvesting industry is in dire need of innovation, and our SA technology can provide the next productivity boost to ensure its global competitiveness. Our solution co-plans the navigation tasks of the operator, and progressively co-learns to offer optimal, operator-friendly assistance. Navigation tasks and decision-making required of harvester operators are challenging, and our solution is uniquely positioned to offer productivity and safety benefits through a human-in-the-loop design. This project builds on achievements under previous Engine grants and our expanded ties with key industry partners: Groupe Remabec, Domtar, and Chantiers Chibougamau. We will start with field-data preprocessing, progressively train and lab-validate models on real-time machine data, and culminate with field trials. Our solution is game changing and we are not aware of competing solutions that provide operator-assistive technology for harvesting machines navigation capable of online adaptation to operator decisions.

Fan Jason Yu, and Professor George Demopoulos both Mining and Materials Engineering

Project Title
Scaling-up of Manufacturable All-Solid-State Lithium Metal Battery (ASSLB) Technology

Summary
Li-ion batteries (LIBs) are the transformative technology that has enabled the tremendous proliferation of mobile electronics, the electrification of transportation, and increasingly the stationary storage of electricity generated from renewable sources. These batteries however suffer from an inherent safety vulnerability due to the use of flammable organic solvent electrolytes. At the same time the energy density of current state LIBs is rather limited to meet the demand for more packaged power. To address these needs, the industry is working towards commercialization of solid-state lithium metal batteries (SSLB) with the advantage of Li metal anode's high energy capacity and the safety of replacing the flammable electrolyte with ceramic and/or polymer solid analogues. The challenge lies however in the processability and interfacial resistance of ceramic electrolytes or the lack of mechanical strength of the polymeric electrolytes. The HydroMET lab has addressed these challenges by developing (patents pending) a hybrid solid-state electrolyte (HSE) which features a porous ceramic (garnet oxide) membrane infiltrated with a small amount (~5%) of conductive polymer. Our innovative technology has the potential for low cost production of size tunable garnet ceramic powders which subsequently are fabricated via standard slurry deposition and sintering processing into porous membranes promising very competitive manufacturing. The new HSE membrane has been successfully integrated with commercial LiFePO4 and high-voltage NMC811 cathodes and tested in coin cell assemblies with Li metal for over 500 cycles. With the support of this fellowship, we aim to work towards scale up of the new technology with the objective of developing and testing of a small prototype of >400 Wh/kg all-solid-state lithium metal battery (ASSLB) in a pouch cell format. Undertaking this next critical step, it will accelerate commercialization by advancing from TRL4 to TRL6 paving the way for licensing opportunities and strategic partnerships in the US$500B battery market.

CHWANG SETO INNOVATION FELLOWSHIPS

Thi Kieu Khanh Ho, and Professor Narges Armanfard Electrical and Computer Engineering

Project Title
SeeVita: AI-Powered Contactless Realtime Vital Sign Estimation

Summary
Hypertension and hypotension are leading contributors to cardiovascular disease worldwide, yet current blood pressure (BP) monitoring methods remain uncomfortable and unsuitable for continuous use. This project develops SeeVita, an AI-driven, video-based BP monitoring system that enables real-time, contact-free, and continuous measurement. By extracting physiological signals from standard cameras, SeeVita offers a scalable, low-cost solution for individuals, healthcare providers, and wellness organizations. The project focuses on enhancing algorithm robustness, validating performance across diverse populations, and preparing the system for real-world deployment—making BP monitoring more accessible, convenient, and effective for proactive cardiovascular care.

Devendra Pal, and Professor Parisa Ariya both from Department of Chemistry, Atmospheric and Oceanic Sciences

Project Title
AquaHQL: A Smart AI-Holographic Platform for Portable, Real-Time Water Quality Monitoring

Summary
Under new Canadian Environmental Protection Act (CEPA) 2023 registry and EU Drinking Water directives, utilities and industries must demonstrate control of these emerging contaminants, yet no field-deployable solution can identify them in real time. AquaHQL™, based on McGill's patented Nano-Digital In-Line Holographic Microscopy (Nano-DIHM) and DaPi™ AI platform, fills this gap. It is the first portable, reagent-free holographic system that classifies and quantifies individual particles in flow using 3D morphology and refractive-phase reconstruction. The device measures plastics, oils, microbial content, and metallic colloids within seconds, streaming data to a cloud dashboard that integrates seamlessly with existing SCADA and water-quality systems. This provides a new layer of "particle intelligence" that complements, rather than replaces, existing chemical sensors, offering faster and reagent-free analysis at field settings.

Through this fellowship, we will advance AquaHQL from TRL5 to TRL7 by miniaturizing and ruggedizing the optical module for remote, continuous operation, expanding AI classification (DaPi v2.0) for mixed-contaminant datasets, and validating the system with municipal wastewater partners and natural-water research observatories. This dual validation bridges operational (wastewater) and lab research (environmental) markets, establishing both technical and market readiness. The resulting prototype will deliver the first real-time, particle-resolved datasets linking wastewater discharge to downstream surface-water quality, creating actionable insight for utilities, regulators, and environmental researchers. The fellowship will catalyze AquaHQL's transition from a validated laboratory innovation to a commercial spin-off platform offering hardware and cloud-based analytics subscriptions, positioning McGill at the forefront of AI-enabled, sustainable water-technology solutions.

THE WILLIAM AND RHEA SEATH AWARDS SUPPORT MCGILL UNIVERSITY FACULTY OF ENGINEERING TENURE-TRACK PROFESSORS AND THEIR GRADUATE STUDENTS BY ENABLING THEM TO ACCELERATE THEIR TECHNOLOGY THAT IS REPORTED AS AN INVENTION BUT NEEDS FURTHER VALIDATION PRIOR TO COMMERCIALIZATION. THEY ARE MADE POSSIBLE THROUGH THE GENEROSITY OF ALUMNUS, THE LATE WILLIAM SEATH, (BENG'52).

Rhea and William Seath

2024-2025 WILLIAM & RHEA SEATH AWARDS WINNERS

Professor Inna Sharf, Mechanical Engineering

Project Title
Operator Co-Planner Assistant (CPA) for Harvester Machines

Summary
Our overall objective is to develop a co-planner assistant for operators of tree harvesting machines. This co-planner represents Tier 1 of the shared autonomy framework for field machines that the team members on this grant have developed over the past six years. Canadian timber harvesting industry is in dire need of innovation, and we believe our technology can provide the next productivity boost to ensure its global competitiveness. Our solution is designed to co-plan the key tasks and actions of the operator, in collaboration with them and, to progressively co-learn in order to offer optimal, yet operator friendly assistance. In this way, the co-planner will improve itself progressively over time, reducing reliance on human's expertise level. We believe the shared autonomy framework is a game-changing technology and there are no other competitive solutions available commercially for the timber-harvesting industry.

Professor Audrey Sedal, Mechanical Engineering

Project Title
Autonomous Infrastructure Inspection through Acoustic Waveguides and Mobile Robotics

Summary
The total market for non-destructive testing (NDT) is expected to reach US$38.32 billion by 2032. Growth in large infrastructure globally is expected to drive growth in NDT. Further, autonomous NDT solutions have an important role in providing flexible, safe, and less disruptive solutions compared to current offerings. Autonomous, flexible solutions would reduce the need for field work by skilled personnel, leading to more frequent and less disruptive testing, better personnel safety, and lower cost. We couple an ultrasonic sensor with a waveguide, which is designed to guide acoustic waves and reflections in prescribed paths based on the robot's state, its potential contact with external objects, and potentially the material properties and internal structure of those objects. The result will be a low-noise, fully integrated autonomous NDT testing system. Discussions with stakeholders and independent research show increased Technology Readiness Level (TRL) is needed. This funding will provide crucial support to an existing team to increase TRL and make commercialization viable.

THE BAYLIS HEALTH CARE GRANT PROGRAM HAS BEEN MADE POSSIBLE THANKS TO THE GENEROSITY OF THE GLORIA BAYLIS FOUNDATION. THESE GRANTS SUPPORT THE COMMERCIALIZATION OF EARLY-STAGE HEALTH CARE RELATED INVENTIONS FROM MCGILL UNIVERSITY WITH A LEAD APPLICANT, OR CO-APPLICANT OR COLLABORATOR WHO IS A MCGILL FACULTY OF ENGINEERING TENURE-TRACK PROFESSOR. THIS PROGRAM ENABLES THE INTERDISCIPLINARY RESEARCH TEAM TO FURTHER VALIDATE THEIR TECHNOLOGY WITH REAL-WORLD NEEDS.

2024-2025 BAYLIS HEALTH CARE INAUGURAL GRANT

Professor Narges Armanfard, Electrical and Computer Engineering

Project Title
AI-Powered Contactless Blood Pressure Estimation: A Scalable Solution for Continuous Health Monitoring

Summary
Hypertension and hypotension affect millions globally, posing significant health and economic challenges. Traditional blood pressure (BP) monitoring methods are limited by discomfort, inconvenience, and inability to provide continuous tracking. This proposal focuses on developing a groundbreaking, non-invasive, video-based BP monitoring system leveraging AI for real-time, continuous health management. The technology offers a scalable and accessible solution for individuals, healthcare providers, and insurers, addressing gaps in current tools and enabling proactive health management. This grant will support further development, validation on diverse populations, and preparation for commercialization, with the goal of transforming BP monitoring and improving global health outcomes.

THE TECHACCELR PROGRAM SUPPORTS ANY ELIGIBLE MCGILL UNIVERSITY TENURE-TRACK PROFESSORS BY ENABLING THEM TO ACCELERATE THEIR RESEARCH-BASED IDEAS WITH COMMERCIAL POTENTIAL THAT ARE REPORTED AS INVENTIONS BUT NEED FURTHER VALIDATION AS PART OF THEIR COMMERCIALIZATION PLAN. THE PROGRAM WHICH INCLUDES A PROJECT GRANT ALONG WITH PERSONALIZED MENTORSHIP, IS OFFERED BIANNUALLY (SPRING AND FALL).

2024-2025 TECHACCELR COHORTS

Professor Mark Driscoll and Christopher Raczek, MSc. candidate, both from Mechanical Engineering

Project Title
Customizable Bioinspired Wearable Device for Non-Invasive Biomechanical Reinforcement

Summary
Currently, there exists no flexible external supportive devices that provide personalized biomechanical reinforcement. This is a flexible, wearable device designed to deliver individualized musculoskeletal support. Inspired by the natural properties of fascia, connective tissue in the body, the device features an internal structure that can be adjusted to provide varying levels of assistance in specific directions, based on clinical input. Once fixed to the skin, the device supports the wearer through its intrinsic stiffness, which is passively engaged during movement.

Professor Songrui Zhao, from Electrical and Computer Engineering

Project Title
Advanced Image Sensors on a Silicon Platform

Summary
Today's image encryption occurs after the images are taken, which represents a significant risk of data breach. This project is to develop technology that can enable image encryption at a hardware level directly within the image sensor and can significantly enhance image data security.

Professor Gerhard Multhaup, from Faculty of Medicine and Health Sciences, Department of Pharmacology & Therapeutics

Project Title
PAIP Trap to Prevent Cognitive Decline

Summary
The global number of people with Alzheimer's disease (AD) was estimated at 32 million in 2022. A major focus of research and development in the AD therapeutic space is preventing the accumulation of amyloid beta (Aβ) in the brain. Recent immunotherapeutic approaches using monoclonal antibodies demonstrated promise in early AD treatment by targeting aggregated Aβ. However, the heavy burden of lengthy intravenous (IV) infusions requiring hospitalization, high costs of the treatments and concerns with severe side effects are hindering uptake by patients and health authorities. We have identified a small, eight amino acid long peptide, D-AIP, as a novel, oral treatment of AD. Oral treatment is a tremendous improvement over IV infusions and subcutaneous injections: The synthesis of D-AIP is relatively simple and scalable at a lower cost than monoclonal antibodies. Our preclinical studies have demonstrated that oral administration of D-AIP reduces plaque amyloid pathology and neuroinflammation. With the support of the TechAccelR grant, we will complete two critical milestones to de- risk D-AIP and obtain go/no decisions towards its commercial development.

2024-2025 TECHACCELR COHORTS (CONT.)

Professor Shirin Abbasi Nejad Enger, from Faculty of Medicine and Health Sciences, Department of Oncology, Professor Jack Sankey, and Professor Lilian Childress, both from Faculty of Science, Department of Physics

Project Title
Microcavity-Enhanced Detection of Radiolysis: A Miniature In-Vivo Radiation Dosimeter

Summary
Radiation therapy is one of the most effective ways to treat cancer, but its success depends on delivering the correct dose with very high precision. Current devices used to measure dose (called dosimeters) are limited: they are often bulky, not tissue-equivalent, and cannot provide fast or high-resolution measurements. This becomes an even greater problem with FLASH radiotherapy, a new technique that delivers radiation in ultra-short, high-intensity bursts. FLASH has been shown to kill tumours while sparing healthy tissues, but no dosimeter currently exists that can reliably measure these beams in real time.

Professor Lesley Fellows, Dimitrios Palidis, PhD, and Professor Marc Roig-Pull, all from Faculty of Medicine and Health Sciences, Department of Neurology & Neurosurgery and School of Physical and Occupational Therapy

Project Title
A new, accessible digital rehabilitation companion for stroke survivors

Summary
Stroke survivors typically receive only a fraction of the physical therapy they need due to high cost and shortages of therapists. Home exercise programs are used to increase rehabilitation dose, but adherence is often low and patients struggle to perform exercises in an effective way without supervision. We are developing software that automates stroke rehabilitation at home using consumer devices. Therapy is monitored through cameras, and patients receive real-time feedback to help them perform exercises in an effective way. With this grant, we will fund technical development to complete our minimum viable product. This will enable us to go to market and begin clinical testing in early 2026.

Professor Sidney Omelon and Dr. Tian Zhao, Post Doctoral Fellow, both from Department of Mining and Materials Engineering

Project Title
Improved Manure Dewatering Process

Summary
Agricultural intensification generates large amounts of manure in optimized operations. This manure is a challenge to store and transport. This project capitalizes on a simple manure digestion process that was optimized and explains the two crystallization processes from this manure digestate that produce gypsum and the nitrogen and phosphate containing nutrient mineral called struvite.

Professor Damiano Pasini and Abdulrahma Almessabi, PhD candidate, both from Department of Mechanical Engineering

Project Title
Multifunctional Origami Packaging

Summary
Current packaging systems typically rely on multiple plastic-based components to function, including custom foams, inserts, bubble wraps, bracers, and trays, that are single-use, non-recyclable, and environmentally harmful. Our origami packaging combines all critical functions—bracing, cushioning, and shape adaptation—into a single, foldable, sustainable multifunctional packaging.
So far, we have analyzed and validated key functionalities, including bracing and impact resistance. However, to advance toward commercialization, it is essential to address internationally recognized packaging standards, such as the International Safe Transit Association (ISTA). These protocols involve a sequence of tests, including vibration and impact assessments on package faces, edges, and corners, that require specialized equipment available at ISTA-accredited laboratories. Conducting these tests will not only guide further design optimization but also provide the certified data needed to confidently demonstrate the promise of our packaging to potential partners and customers in the pertinent industry.

2024-2025 TECHACCELR COHORTS (CONT.)

Professor Reza Sharif Naeini, from Faculty of Medicine and Health Sciences, Department of Physiology

Project Title
Multi-Targeted Topical Therapy for Atopic Dermatitis: A Synergistic Approach

Summary
Atopic dermatitis (AD) affects over 200 million people globally and poses a significant burden on quality of life and healthcare systems. Characterized by intense itching, immune dysregulation, and skin barrier dysfunction, current treatments often fail to provide comprehensive, sustained relief and are limited by side effects or cost. We propose a novel, non-steroidal topical cream that targets the three core drivers of AD—itch, inflammation, and barrier damage—designed for safe, long-term use. With support from this grant, we aim to generate essential preclinical data, validate the cream in disease-relevant models, and prepare for clinical testing. Our goal is to deliver a more effective and accessible treatment that addresses the multifactorial nature of AD.

Professor Maryam Tabrizian and Bryan Herrera, PhD candidate, both from Faculty of Medicine and Health Sciences, Department of Biomedical Engineering

Project Title
Second Generation of Acoustofluidic-Based Micromixer for Improved Microstreaming Feature

Summary
Bioprinting of 3D cell spheroids offers a promising approach to reduce the time for build complex tissue structures. We have developed a acoustofluid-based micromixer device for continuous, rapid, and cell-type-independent spheroid formation. This platform could be integrated into bioprinters, reducing both processing time and required high cell density. To further increase of the compatibility of this microfluidic device with a variety of bioinks, varying in viscosity, we are developing the second generation of the acoustofluid-based micromixer with increased microstream velocity to make the spheroid using high density bioinks and make the device more attractive for a technology transfer. Our success in TechAccelR funding will be instrumental to accelerate its development through acquiring a micro-Particle Image Velocimetry (μPIV) system to precisely characterize the fluid dynamics in our device.

Professor David Juncker and Geunyong Kim, PhD candidate, both from Faculty of Medicine and Health Sciences, Department of Biomedical Engineering

Project Title
Biocounter–Convenient, rapid, ultrasensitive diagnostics from a mouthwash

Summary
Today's diagnostics face a trade-off between sensitivity vs speed and cost. PCR tests are accurate but slow, expensive, and centralized (> 4 h turnaround). Rapid tests are fast (~15 min), cheap, but miss up to 30% of true positives—putting patients and communities at risk. Both rely on unpleasant nasal sampling, discouraging self- and repeated testing and frightening children. We introduce the Biocounter, a new paradigm that overcomes this trade-off and makes testing a pleasant experience. It uses a simple mouthwash sample: users mouthwash for 30 seconds, load the sample into a chip, insert it into an automated analyzer, and get results in 5 minutes—no lab, swabs, or professionals needed. The Biocounter offers rapid, reliable, and patient-friendly testing for both protein and nucleic acid targets, addressing a USD 211B global market seeking better solutions. Our first beachhead is influenza diagnostics, valued at USD 1.1B in 2023 and projected to reach USD 1.8B by 2033.

Professor Bhushan Nagar and Garvit Bhatt, PhD candidate, both from Faculty of Medicine and Health Sciences, Department of Biochemistry

Project Title
NanopHast

Summary
Measuring pH in small volumes is challenging—glass electrodes require 20–30 mL, are costly, prone to salt buildup, and need frequent maintenance, while pH paper is imprecise and unreliable at low volumes. NanopHast's solid-state sensor enables accurate, real-time pH measurements in just 0.02 mL, with a miniaturized, scalable design that is low-cost to produce, maintenance-free, and offers a longer shelf life. This downsizing not only improves efficiency but also opens the door to novel experiments previously limited by sample size constraints. TechAccelR funding will allow us to optimize the single-probe prototype and scale to a 96-well format, directly meeting pharmaceutical needs and accelerating drug discovery and development.

2024-2025 TECHACCELR COHORTS (CONT.)

Professor Elizabeth Zimmermann and Kawkab Tahboub, PhD andidate, both from Faculty of Dental Medicine and Oral Health Sciences

Project Title
Surface Modification for Plastic Fibers in Cement

Summary
Plastic fibers are used as secondary reinforcement in concrete to counteract the brittleness of cements where they bridge cracks to hinder crack propagation. Crack bridging depends on bonding between plastic and cement. However, the smooth, low reactivity surfaces of polymeric fibers inhibit bonding to cement. Many surface modifications for virgin and waste plastics have been proposed in the literature with varied levels of success. Nonetheless, most of these approaches have not been adopted by industry possibly due to concerns about the use of hazardous chemicals, possibility of fiber damage, cost-effectiveness, or scalability. We explored and optimized a potential green, scalable, universal, and effective approach to improve the integration of virgin and waste plastic fibers into Portland cement (main concrete binder). Thus, here, we aim to proceed with our technology development steps by performing mechanical testing on concrete samples following industry-accepted ASTM standards (mainly ASTM C1116 and C1609); these data will further validate the real-life effectiveness of our proposed approach. The outcomes of this grant will advance the commercialization of our technology that exhibits a competitive performance in terms of effectiveness and potential scalability compared to the current standard.

Professor Mihriban Pekguleryuz, Yizhi Wang, MSc. candidate, both from Mining & Materials Engineering, and Professor Yuksel Asli Sari, from Queen's University

Project Title
Accelerating High-Temperature Aluminum Alloy Design through Generative Artificial Intelligence-Driven Innovation

Summary
Aluminum (Al) alloys are valued for their high strength-to-weight ratio, machinability, and affordability. Sectors like automotive, aerospace, and nuclear demand cost-effective Al alloys that can withstand 250–400°C. However, at high temperatures, phase transformations and coarsening reduce creep strength, leading to failure. Accurate creep rupture life prediction and the development of novel creep-resistant alloys are crucial, but traditional design methods are slow and costly. Artificial Intelligence (AI), powered by advanced computing and algorithms, offers a promising alternative. We have developed and validated an AI-accelerated modeling framework that led to the discovery of a new creep-resistant Al alloy that outperforms current research-stage and commercial alternatives. The model has the potential to cut alloy development time and cost from years to weeks, while enabling more sustainable and durable materials for public sector applications. With this grant, we aim to further validate the model and allow it to confirm its reliability and performance for light weighting transport applications.

2024-2025 TECHACCELR COHORTS (CONT.)

Professor Maryam Tabrizian and Bryan Herrera, PhD candidate, both from Faculty of Medicine and Health Sciences, Department of Biomedical Engineering

Project Title
Second Generation of Acoustofluidic-Based Micromixer for Improved Microstreaming Feature

Summary
Bioprinting of 3D cell spheroids offers a promising approach to reduce the time for build complex tissue structures. We have developed a acoustofluid-based micromixer device for continuous, rapid, and cell-type-independent spheroid formation. This platform could be integrated into bioprinters, reducing both processing time and required high cell density. To further increase of the compatibility of this microfluidic device with a variety of bioinks, varying in viscosity, we are developing the second generation of the acoustofluid-based micromixer with increased microstream velocity to make the spheroid using high density bioinks and make the device more attractive for a technology transfer. Our success in TechAccelR funding will be instrumental to accelerate its development through acquiring a micro-Particle Image Velocimetry (μPIV) system to precisely characterize the fluid dynamics in our device.

Professor Zhiming Qi and Dr. Kevin Kelly, research associate, both from Faculty of Agricultural and Environmental Sciences, Bioresource Engineering

Project Title
Technological Validation At The Component and System Level of Novel Water Treatment Adsorbents in Preparation for Small-Scale System-Level Testing with Potential Customers

Summary
Current water treatment plants (WTP) struggle to control emissions of pollutants that can harm the environment and human health even when present in trace amounts (e.g., micrograms per liter). With many freshwater reserves still in poor ecological condition, new water filtration technologies are essential for meeting safer but stricter emission guidelines.
We have developed a new class of water filtering materials (known as adsorbents) that efficiently trap or more specifically adsorb phosphorus (P) and arsenic (As) (and potentially other pollutants such as lead) at a lower cost. Our materials leverage existing equipment and integrate easily into mature WTP water filtration systems. The TechAccelR grant will support de-risking our technology at the component and system level, paving the way for system-level testing at the facilities of three potential customers later this year.

2025 ISSUED PATENTS

TITLE	PATENT	INVENTORS
Bistable Auxetics	CA 2,961,625	Damiano Pasini, Ahmad Rafsanjani Abbasi
Block Synthesis of Oligoribonucleotides	EP2609107	Masad, J. Damha, Matthew Hassler, Takhang Chan, Mallikarjuna Reddy Nandyala, Robert Alexander Donga
Turning CRISPR/CAS9 Activity with Chemically Modified Nucleotied Substitutions	US 12,467,045	Masad Damha, Maryam Habibian, Elise Malek-Adamian, Keith Gagnon, Daniel O'Reilly, Zachary Kartje
Carbene-Functionalized Composite Materials	US 12,409,473	Janine Mauzeroll, Thilini Malsha Suduwella, Cathleen M. Crudden, Seán Barry, Eden Ramona Goodwin, Paul Ragogna, Justin Lomax, Yolanda Hedberg, Marshall Shuai Yang, Waruni Senanayake, Lila Laundry-Mottiar
Cathode Material Based on Disordered Rock Salt Structure and Secondary Battery Comprising the Same	KR 10-2876512	Jinhyuk Lee, Dong-Hwa Seo, Eunryeol Lee, Sang-Wook Park, Dae Hyung Lee
Manufacturing Method for Disordered Rocksalt-Cathode Active Material and Manufacturing Method for Cathode Material Using the Same	KR 10-2876516	Jinhyuk Lee, Dong-Hwa Seo, Eunryeol Lee, Sang-Wook Park, Dae Hyung Lee
Cationic Dendrimers for the Culture of Adherent Cells	US 12,252,710	Timothy E. Kennedy, Jean-Pierre Clement, Laila Al-Alwan
Convertible Plasma Source and Method	KR 10-2022-7001947	Jean-Sebastien Boisvert, Philip Wong, Valerie Leveille
Electronic Circuit Having Graphene Oxide Paper Substrate and Method of Recovering Parts of an Electronic Circuit	US 12,453,014	Thomas Szkopek, Anthony Ubah, Marta Cerruti
Hydrogel for 3D Tissue Engineering	US 12,247,221	Simon Tran, Joseph Matthew Kinsella, Jose Gil Munguia Lopez, Yuli Zhang, Hieu Michael Pham
Mechanoenzymatic Degradation of Polymers	US 12,344,880	Karine Auclair, Tomislav Friščić, Sandra Kaabel, James Patrick Therien

2025 ISSUED PATENTS (CONT.)

TITLE	PATENT	INVENTORS
Method and Device for Measuring Cell Contractility	US 12,339,231	Allen Ehrlicher, Ali Amini Harandi, Ajinkya Ghagre
Method and System for Training a Neural Network	US 12,462,158	Warren J. Jeffery Gross, Amir Ardakani, Arash Ardakani
System and Method of Decoding Data	US 12,451,990	Warren J. Gross, Huayi Zhou
Method for Producing Crystalline Scorodite Substantially Free of Gypsum	CL 71.042	George P. Demopoulos
Method for Producing Scorodite	US 12,252,412	George P. Demopoulos
Method of Making Recombinant Silk and Silk-Amyloid Hybrid Proteins Using Bacteria	US 12,351,805	Zahra Abdali, Noemie-Manuelle Dorval Courchesne, Peter Quoc Nguyen, Neel Satish Joshi
Methods and Systems for Controlling a Haptic Display	US 12,373,032	Jeremy Cooperstock, Antoine Weill-Duflos, Juliette Regimbal, Nusaiba Radi, Jeffrey Blum, Parisa Alirezaee, Yukai Zhang
Methods of Treating Decreased Bone Mineral Density with Cluster of Differentiation 109 (CD109) Inhibitors	US 12,234,460	John Brent Richards, Sirui Zhou, Jonas Bovijn, Olukayode Sosina, Luca Andrea Lotta, Aris Baras
System and Method for Characterizing a Physical Property of a Sample	US 12,196,719	Changhong Cao
System and Method for Digital Measurement of Stereopsis	JP 7638873	Robert F. Hess, Alexander Baldwin
Vision Strengthening Systems	EP 3185746	Robert F. Hess, Reza Farivar-Mohsen, Alexandre Reynaud

ENGINE SUPPORTED SPINOFFS AND STARTUPS

ACUITI HEALTH

AIR KEEPER INC

ALTA CONTRUCTION

FOURSIGHT MEDICAL

GEOSIFT

KUIPER AUTONOMI

LABGIANT

NANOPHAST

PAIN+

NATURAL SCIENCES & ENGINEERING RESEARCH COUNCIL OF CANADA (NSERC) GRANT

IDEA TO INNOVATION GRANT

The objective of the NSERC Idea to Innovation (I2I) Grants Program is to accelerate the pre-competitive development of promising technologies originating from colleges and universities and promote their transfer to new or established Canadian companies. These highly competitive I2I Grants provide funding to college and university faculty members to support R&D projects with recognized technology transfer potential and are co-written with the university technology transfer managers.

McGill recipients of the NSERC Phase 1 I2I grant:

Professor Thomas Szkopek (Electrical and Computer Engineering)
Project Title
Turnkey Solution for Automated Real-Time Nutrient Profiling of Hydroponic Water – Ikei Systems

Summary
Nutrient imbalance is a significant source of inefficiency in hydroponics and indoor farming. The common approach to address this issue involves flushing and replacing the water growth medium, which leads to substantial waste of both water and nutrients. Current nutrient-ion analysis techniques, such as atomic absorption spectroscopy and conventional liquid-filled ion-selective electrodes, are costly to acquire and maintain, making automated operation impractical. Our patented ion-selective field-effect transistor and patent-pending solid reservoir reference electrode provide a cost-effective solution for nutrient-ion monitoring, enabling the development of an automated nutrient balancing system. This grant will support the creation of an intervention-free sampling system for our sensors, allowing us to conduct pilot projects with indoor and hydroponic farms across Canada. In turn, this will elevate the technology readiness level of our sensors and bring us closer to realizing a fully automated nutrient balancing system.

Professor Inna Sharf (Mechanical Engineering)
Project Title
Implementation of Co-planning Assistant on Operator Training Harvester Machine – Kuiper Autonoml

Summary
Our overall objective is to develop a co-planner assistant for operators of tree harvesting machines. This co-planner represents Tier 1 of the shared autonomy (SA) framework for field machines that the team members on this grant have developed over the past six years. Canadian timber harvesting industry is in dire need of innovation, and we believe our technology can provide the next productivity boost to ensure its global competitiveness. Our solution is designed to co-plan the key tasks and actions of the operator, in collaboration with them and, to progressively co-learn in order to offer optimal, yet operator friendly assistance. In this way, the co-planner will improve itself progressively over time, reducing reliance on human's expertise level. We believe the shared autonomy framework is a game-changing technology and there are no other competitive solutions available commercially for the timber-harvesting industry.

INVENTION TO IMPACT TRAINING PROGRAM

The Invention to Impact (I-to-I) Training Program uses experiential learning to help McGill graduate students and their faculty supervisors gain insight into:

- technology commercialization
- entrepreneurship
- industry requirements and challenges

I-to-I provides tools and training to support researchers to translate their research to the marketplace and have their solutions benefit society. The program imparts an evidence-based methodology that students and professors can use for the rest of their careers, and it also enables the transformation of inventions to impact.

Spring 2025 Teams:

Prof. Christopher Moraes and Chen Li, PhD candidate, Chem.Eng.
Project Title
LabGiant, "An AI-powered marketplace for research labs."

Prof. Damiano Pasini and Abdulrahman Almessabi (Graduate Impact Awardee), PhD candidate, Mech.Eng.
Project Title
Origami Pack, "Multifunctional origami-inspired packaging system."

Prof. Alfredo Ribeiro-da-Silva, Hannah Derue, PhD candidate, and Julien Hovan, Neuroscience
Project Title
PAin+, "AI-based journaling tools for chronic pain."

Prof. Thomas Szkopek and Uttung Surange (Graduate Impact Awardee), PhD candidate, ECE
Project Title
BioGraf, "Highly stable, sensitive, and selective solid-state sensors."

Professor Theo van de Ven and Dr. Seyed Mohammad Amin Ojagh, Postdoc, Chemistry
Project Title
Bio renewable gloves, "Wound dressing emulgel and sustainable gloves."

Prof. Elizabeth Zimmermann and Kawkab Tahboub, PhD candidate, Dentistry
Project Title
FibraVerde, "Surface modification for plastic fibers in cement."

Fall 2025 Teams:

Professor Parisa Ariya, Devendra Pal, Postdoc, Zi Wang, Postdoc, Zaki Nasreddine, PhD candidate, Alessio Fortin, Master's student, all from Chemistry
Project Title
AquaLytiX "Water Remediation"

Prof. Jeffrey Bergthorson, Médéric Chalifour, Master's student, Oliver Fernie, Master's student, Marzie Karimi Dehkordi, PhD Candidate, Jocelyn Blanchet, PhD Candidate, all from Mech.Eng (Graduate Impact Awardee)
Project Title
Hydral Energy, "An AI-powered marketplace for research labs."

Prof. Sylvain Coulombe and Dante Filice (Graduate Impact Awardee), PhD candidate, Chem.Eng
Project Title
Team Coulombe, "Electrification of chemical synthesis using plasma-based gas conversion processes."

Prof. Milica Popović and Matthew Band (Graduate Impact Awardee), Master's student, ECE
Project Title
QFactor Innovations, "A new approach to design and radiofrequency construct coils."

Prof. Jun-Li, Liu, Yi-Ting Tang, PhD candidate, and Rachel Shih, both from MUHC
Project Title
Smart Calories, "Treatment and management of diabetes with Traditional Chinese Medicine (TCM)."

Mohan Krishna Redlapalle, Master's student, Surgery
Project Title
Vision Suture, "a computer vision-based surgical training platform."

NEW - GRADUATE IMPACT AWARD PROGRAM

This is a program for McGill's Faculty of Engineering research-based graduate students which aims to train and support the next generation of researchers to better understand the potential societal and commercial impact of their research and increase their entrepreneurial mindset and skills. It is partially funded through generous donations from the Engineering Class of 1966 and the Engineering Class of 1976.

It is designed for graduate students without previous research commercialization training or experience, but whose research is relevant for being applied to society and the marketplace.

Winter 2025 Graduate Impact Awardees

Kaan Gun

Master's student, Electrical and Computer Engineering
PI: Prof. Xiaozhe Wang

Yvan Teddy Chegang Kwebou

PhD Candidate, Materials Engineering
PI: Prof. Alessandro Navarra

Spring 2025 Graduate Impact Awardees

Abdulrahman Almessabi

PhD Candidate, Mechanical Engineering
PI: Prof. Damiano Pasini

Uttung Surange

PhD Candidate, Electrical and Computer Engineering
PI: Prof. Thomas Szkopek

Fall 2025 Graduate Impact Awardees

Matthew Band

Master's student, Electrical and Computer Engineering
PI: Prof. Milica Popović

Dante Filice

PhD Candidate, Chemical Engineering
PI: Prof. Sylvain Coulombe

Team Bergthorson

Médéric Chalifour, Mechanical Engineering Master's student
Oliver Fernie, Mechanical Engineering Master's student
Marzie Karimi Dehkordi, Mechanical Engineering PhD Candidate
Jocelyn Blanchet, Mechanical Engineering PhD Candidate
PI: Prof. Jeffrey Bergthorson

NEW - ENGINE TALENT MATCH AWARD PROGRAM

This program provides a learning experience to the McGill Desautels graduate students who are matched with eligible McGill Engine affiliated startups and spinoffs. The interns have the opportunity to collaborate with the venture on a 10-week mutually agreed upon project. Our selected ventures thus gain extra support and business expertise.

Yuqi Chen

Master of Management in Retailing, Bensadoun School of Retailing
Host venture: VoltLeaf Energy Inc

Annalise Hilts

Master of Business Administration
Host venture: Phoela Health Inc

Shree Krupa Krishna Prasad

Master of Business Administration
Host venture: Curbcut

Branco Monzon Gutierrez

Master of Business Administration
Host venture: Kuiper Autonoml Inc

Pedrum Shokouhi

Master of Business Administration
Host venture: TissueTinker

Virgil Sun

Master of Management in Retailing, Bensadoun School of Retail Management
Host venture: Live Cell Technology Canada

SUMMER STARTUP INTERNSHIP AWARD PROGRAM (SSIAP)

Thanks to our alumni donors, we continued to offer this program to our students as an experiential learning opportunity within McGill Engine affiliated startups and spinoffs over the summer. This year, the SSIAP supported 10 summer startup internship awards. Two are made available through the Jim Nicell Startup Internship Award supported by endowed gifts from several members of the Faculty of Engineering Advancement Board and friends of the Faculty in honour of the past dean, Professor Jim Nicell. The remaining internship awards are funded through the support of other generous donors, namely, John D. Thompson and Stephen Hamelin.

The selected interns were from the Faculties of Engineering, Arts, Science, and Desautels Management and each of them had the opportunity to collaborate in person and remotely with both the startup and a mentor at the Engine Centre to ensure a well rounded learning experience during the internship.

The interns are listed below each startup.

DRIVE-TECH

Jude Sousou,
(Software Engineering)
Backend Developer Intern

OPSIS

Canyu Wu,
(Bioengineering)
Business Intern

Flotation Metrics

Rosaleen Siroosi,
(Faculty of Science)
Data Intern

ReSciCler

Massimo Seifarth,
(Desautels Faculty Management)
Business Intern

Foursight Medical

Yehuda Dahan,
(Desautels Faculty of Management)
Marketing Intern

TerraTech

Dani Rolam,
(Electrical Engineering)
Integration Intern

Kuiper Autonoml Inc

Ben Pham,
(Desautels Faculty of Management)
Business Intern

Air Keeper Inc

Isha Sharma,
(Faculty of Arts)
Marketing Intern

LiveGuard

Ryan Le,
(Desautels Faculty of Management)
Business and Marketing Intern

VoltLeaf Energy Inc

Violet Xu,
(Desautels Faculty of Management)
Marketing Intern

TECHACCEL PROGRAM

The TechAccel Program is one of the McGill Engine's key co-curricular/experiential learning programs. It supports early-stage student ventures with Lean Startup Methodology training, 1:1 business mentorship, and funding. The program runs three times a year during the Fall, Winter, and Summer semesters, each cohort is about 18 weeks long. We help student technological innovators make a positive impact on the world!

Alta Construction Group

Erik Linseisen
Lorenzo Collard

Anemia

Gwen Sammon
Amin Abdolkhani
Malcolm Sammon

BinWin

Mohamed Abdelhady
Philippe Aprahamian
Syed Mustafa

BranchSense

Jonathan Hu

CarnEYEval

Maaluv Gandhi
Mankush Gandhi

Clava

Rathavan Thambimuthu
Joerex Thambaiah
Abilash Sasitharan

Cost-efficient Quadplane A Comprehensive Testing Platform

Martin Paiva
Alois Luong
Larissa Azzopardi

Crush It

Michelle Zhou
Aiden Brokenshire

E-Ballet

Yang-Zi Sun
Tran Tuan Khai Phan

EduPlate

Erica Eng
Rana Sarhan
Noah Subedar

Fridge Buddy

Vivek Motta
Alp Barlas
Jon Barlas

GoCapturit

Valentine Huy
Estelle Huy

InsulEngine

Adam An
Krista Guenov

LINA

Chloe Zheng Lucas
Théophile Soulie
Oscar Ghosh

Lodavo

Luke Freund
Benjamin Thomas

Matera

Lara Herlah
Jessica Kieffer
Victoria Bauermadrid
Lewis Holmberg

Multi-Surface Drone Mounted Autonomous Spraying Mechanism

Justin Goodman
William Robinson
Jonah Dalfen
Kaiz Dhamani

Nautilus

Yaman Al Janaideh
Gabriel Straface

Nuclear

Ojas Srivastava
Sathya Sriram
Shubkarman Walia
Vishruth Siddi

PeakForm

Steve Chen
Ze Zhang
Ida Ozdemir

POP

Tanya Abenaim
Dov Vas

TECHACCEL PROGRAM (CONT.)

ProgentechAI

Demitri Evangeliou
Ethan Shak

R1-D4 Hospital-Assist Robot Project

Zakaria Benhssein
Bilar Mokhtari
Nicolas Elmurr
Walid Aiss

Restoport

Roy Chababi
Andrew Chabab

SkillMatch

Irene Simier
Philippe Decoste

Sockté

Larissa Chiu
Karina Chiu

Air Keeper Inc

Sebastian Ibarra Mendez
Santiago Ibarram

Tres

Weijie Wang
Leyi Lin

UQwest

Jordan Buchanan
Eliott Rozental

Vessence Biomedical

Karim Mustafa
John Hamilton
Emmanuel Menacho
Tuna Gedik

Yeast Metabolism Investigation for Fermentation of Non-Alcoholic Beer

Liam Sterne
Mika Chang
Joshua Negenman

ENGINE-DOBSON PRIZE

The McGill Engine Prize is offered to support a technologically-based venture competing in the final round of the McGill Dobson Cup competition. To be eligible for the McGill Engine Prize in the McGill Dobson Cup, at least one team member must be a current full-time student or professor at McGill's Faculty of Engineering and the venture must be technologically-based. Teams competing for this prize pitch to the McGill Engine team.

ENGINE-DOBSON PRIZE WINNER

Biomë

Biomë analyzes the facial microbiome using next-gen sequencing to offer personalized skincare recommendations. Bigger picture, it aims to share their AI algorithm for bacteria interactions to exponentially increase the speed and quality of life-saving therapeutic development.

Tony Xu, Master's student, McGill Electrical and Computer Engineering
Michael Wang, University of Toronto, MSc Physiology
Ives Luo, Western University, Ivey School of Business, Business Administration

HONOURABLE MENTION

LabGiant

Their AI-powered marketplace connects academia, empowering labs to share discoveries, sell proprietary tools, and rent equipment—helping researchers leverage resources to inspire innovative solutions and accelerate scientific progress.
As part of this recognition, LabGiant has been awarded a complimentary ticket to attend Startupfest 2025.

Chen Li, PhD Candidate, McGill Chemical Engineering
Andrew Wu, McGill Faculty of Science '19
Joshua Xu, McGill Faculty of Engineering '24

2025
IAN MCLACHLIN PRIZES FOR ENTREPRENEURSHIP IN ENGINEERING

The prizes were established in 1998 by Ian McLachlin, B.Eng. 1960, to encourage students in the Faculty of Engineering to undertake new ventures with business or social impact potential. They are awarded to students enrolled in the Faculty of Engineering with high academic standing who have begun, have made progress towards, or have completed an entrepreneurial project with business or social impact potential.

Sebastian Ibarra Mendez
Master's student, Civil Engineering

Venture Name
Air Keeper Inc

Summary
The Air Keeper is a low-cost methane detection device designed for home, commercial, and industrial applications. It offers individuals who rely on natural gas an easy-to-use solution to monitor potentially dangerous gas leaks, while providing landfill operators and businesses with cost-effective methane monitoring for regulatory compliance and emission hotspot identification.

Chen Li
PhD Candidate, Chemical Engineering

Venture Name
LabGiant

Summary
LabGiant is building the cloud infrastructure for scientific research. By connecting labs, equipment, and data through one integrated system, we turn collaboration into the foundation of discovery. Our goal is to create a connected, data-driven ecosystem where every experiment builds on the last and science itself moves faster by standing on the shoulders of giants together.

ENGINE CAPSTONE DESIGN PRIZES

The McGill Engine Capstone Design Prizes for Entrepreneurship support Faculty of Engineering student teams that have developed an innovative design solution as part of their final year Capstone Design Project with potential for their own startup venture.

ENGINE CAPSTONE DESIGN PRIZE WINNERS

1st Place - Continuous Wearable Bladder State Detection Technology Through Microwave Sensing for Urinary Incontinence

Tuna Gedik
John Eric Hamilton
Karim Mustafa
Emmanuel Menacho Tardieu
(all from Bioengineering)

2nd Place - Developing a rational device design for regulated drainage in glaucoma filtration surgery

David Bettan
Christopher Coluni
Adi Orlov
Mark Tchinov
(all from Bioengineering)

3rd Place - Design of Easily Manufacturable and Repairable Quadplane for Experimentation and Testing of Flight Controls During Transition

Larissa Azzopardi
Alois Luong
Ghali Qaidi
Abdullah Taltello
(all from Mechanical Engineering)

VOLUNTEERS: MENTORS, REVIEWERS, SPEAKERS

TECHACCEL PROGRAM

Rayan Sadri, Co-Founder, Carez AI
Ankit Mishra, Energy Contributor, Forbes
Kamal Malik, AI Engineer, Accenture
Jacques Pavlenyi, Consultant
Alexandra Valdescault, Director of Product, SSENSE

REVIEWERS

Gilles Fayad, Director of Development, AI Commons
Tuba Yamac, Patent Agent, BCF LLP
Gene Yazbak, Corporate Board Director, NanoSoft

SPEAKERS AND PITCH JUDGES

Roko Baljak, Co-founder, Watoga Technologies
Samuel Desjardins, Co-founder, Watoga Technologies
Emilie Davignon, Biomedical Engineering Master's student
Elliot Forcier-Poirier, Co-founder, Watoga Technologies
Kevin Han, Co-Founder, AON 3D
Konstantinos Korgiopoulos, Operations Lead, Kingston Process Metallurgy
Oliver Walerys, Co-founder, GovernGPT

ABOUT MCGILL ENGINE

The McGill Engine Centre in the Faculty of Engineering, focuses on encouraging and supporting technological innovators and entrepreneurs across McGill University in collaboration with the Office of Innovation and Partnerships, the McGill Dobson Centre for Entrepreneurship, and the Clinical Innovation Platform (CLIP).

THE MCGILL ENGINE NEEDS YOUR SUPPORT!

CALL FOR VOLUNTEERS

Volunteers are an essential part of the university community; your participation and financial support are key elements in ensuring that coming generations of students achieve their goals.

We are looking for:

- TechAccel mentors
- Invention to Impact mentors
- Guest speakers & judges
- WRSA proposal reviewers
- Chwang Seto Innovation proposal reviewers

Learn how to get involved.

FINANCIAL SUPPORT

The McGill Engine Innovation Fund lies at the heart of Engine's mission of encouraging entrepreneurial and innovative thinking. The fund supports team based, innovative projects through the TechAccel grants, that help students to jump start and accelerate technologically based ideas that have business or social impact potential. In addition, the TechAccelR grants help researchers validate their research that has commercial and social impact potential.

The McGill Engine is being supported by alumni and friends of McGill University:

Ronald Chwang (BEng'72, DSc'12)
and the Chwang Seto Family
William Seath (BEng'52) and Rhea Seath
Jim & Barbara Brodeur (B.Eng. '56)
Ian McLachlin (B.Eng. '60)
John D. Thompson (B.Eng. '57)
Stephen Hamelin (B.Eng.'91)
Pasquale Di Pierro (B.Eng. '76)

Michael Barski (B.Eng. '68)
Robert Walsh (B.Eng. '65)
Leon Fattal (B.Eng.'62)
Eng Class of 1980
Eng Class of 1976
Eng Class of 1966

The McGill Engine Innovation Fund needs your support through:

1. An annual contribution
2. A named endowment within the fund

For more information please contact: **Ms. Virginia Roe**, Director, University Advancement
virginia.roe@mcgill.ca