



McGill | Engine

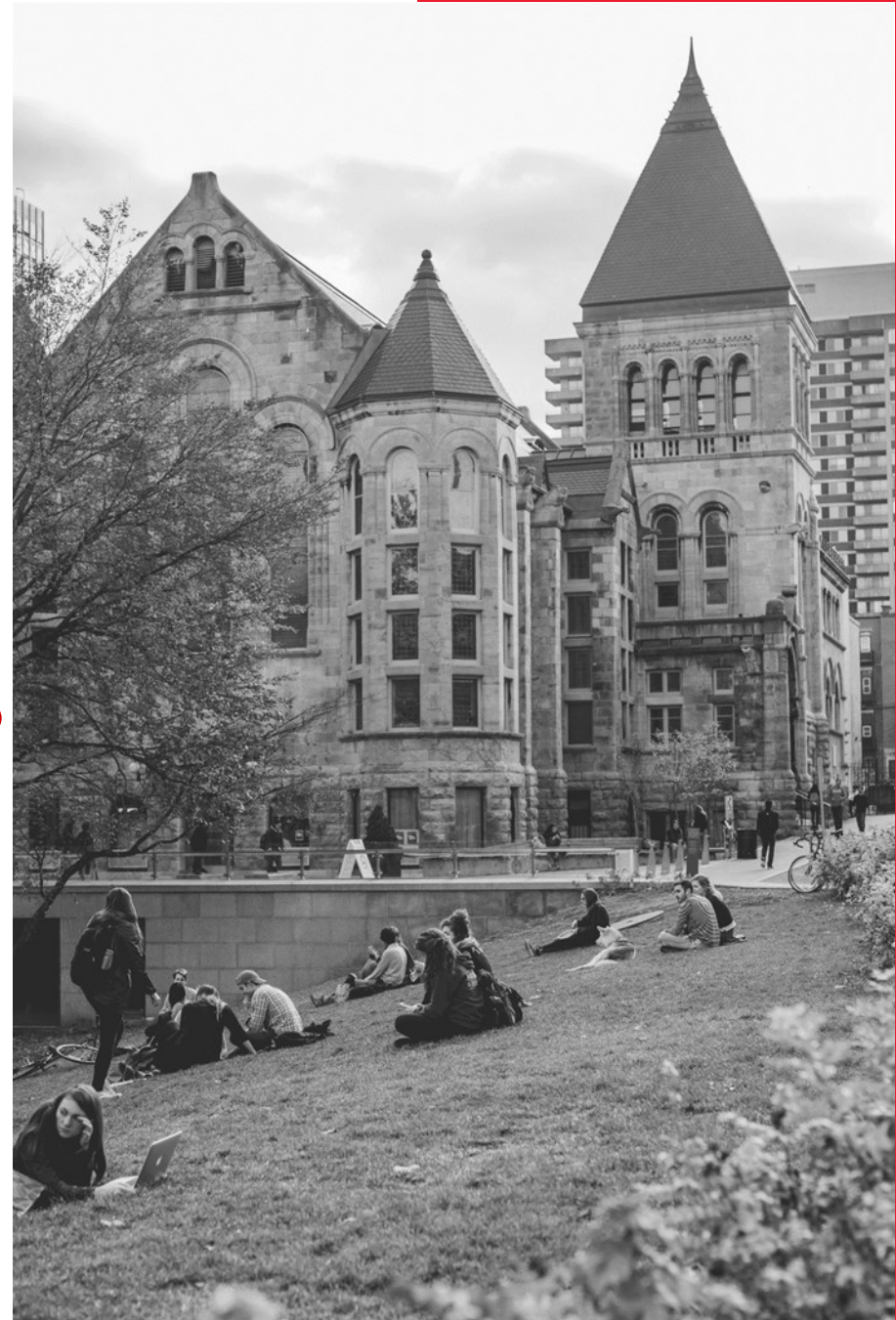
SUPPORTING TECHNOLOGICAL INNOVATORS AND ENTREPRENEURS

since 2013



McGill

Faculty of
Engineering



CONTEXT

- “Engineers are and must continue to be at the forefront of innovative solutions in order to help Canadians meet the environmental, social, and economic **challenges of the 21st century.**” Engineers Canada
- Engineering’s ultimate goal is meeting society’s wants and needs and doing so in a responsible manner. Ultimately, engineers strive to help people, to improve the quality of their lives.
- Engineers who not only utilize their technical engineering skills, but also employ an entrepreneurial mindset are **well-rounded engineers** prepared with the necessary knowledge and skillsets to be successful in their career.
- **They understand the bigger picture, recognize problems and opportunities, and create value for themselves and others.**
- Entrepreneurially minded engineers are powerful agents of positive change.

VISION and MISSIONS

DRIVING INNOVATION

For the [McGill Engine community](#) to make a **positive impact and contribute value** to the innovation and entrepreneurial ecosystems, locally, regionally, nationally, and worldwide.

3Cs: curiosity, connections, create value

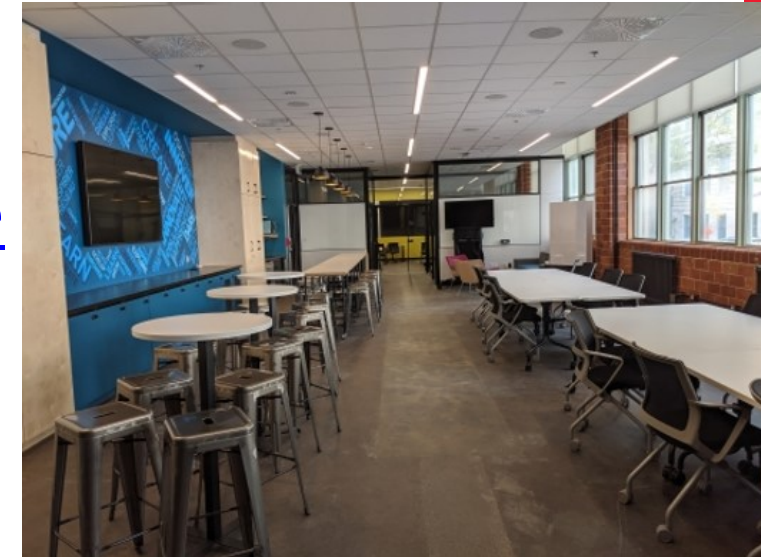
- 1) Help develop** the next generation of **entrepreneurially-minded** McGill engineers, designers, innovators, entrepreneurs, and change agents
- 2) Promote and accelerate** the commercialization of McGill inventions and software
- 3) Increase engagement and R&D collaborations** between innovation-driven companies and the Faculty of Engineering



OUR PILLARS

- [Training](#) and [experiential learning](#) programs
- [Advising, coaching, mentoring, connecting](#)
- [Project funding](#)
- [Programming: workshops, seminars, lectures, events](#)
- Industrial R&D collaboration liaison/facilitation
- Collaborative, co-working space (FDA5) and [bookable rooms](#): seminar (FDA3), conference, meeting

We are a Mitacs approved incubator for their [E-Accelerate program](#).



Entire Engine Centre -2034 sq.ft

THE TEAM

- Professor Benoit Boulet, Director + Associate Vice-Principal Innovation & Partnerships
- Katya Marc, Associate Director
- Ronald Chwang Entrepreneurs-in-Residence (EiRs):
 - Dr. Michael Avedesian, Dr. Andrew Csinger, Derrick Wong, Roger Tambay
- Dr. Vivian Diniz, Business Development Officer
- Xiangmin Kong, Programs and Communications Associate
- Diti Shah, Engine Coordinator
- TechAccel and I-to-I volunteer mentors
- Eng Innovators Community of Practice
- Engine Undergraduate Student Advisory Committee & Engine Graduate Student Advisory Committee



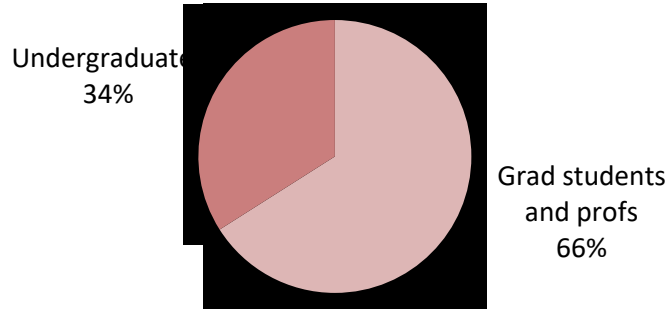
OUR VALUES

- Curiosity - questioning the status quo and trying to better understand the world around us
- Collaboration - promote sharing and involvement of everyone to achieve common goals
- Community - caring about each other, staying involved and giving back
- Sustainability - working in a way that integrates social, economic, and environmental dimensions equitably within the limits of a finite planet
- Determination - persevering even when encountering difficulties or failures believing you can be a positive change agent

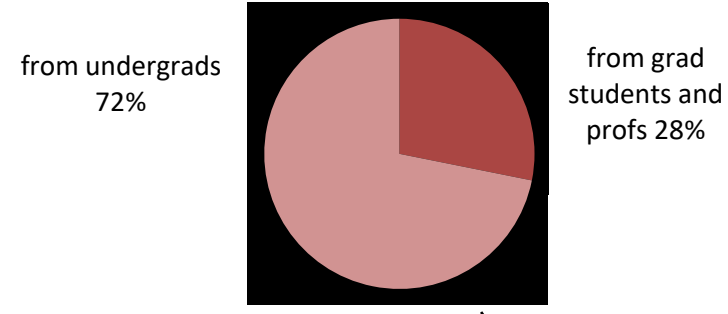
MCGILL ENGINE IMPACT

Since our beginnings in January 2013 to August 2023

\$1.40M+
**GRANT, AWARDS, PRIZES &
FELLOWSHIPS AWARDED**



**241 PROJECTS/VENTURES
SUPPORTED AND
MENTORED**



390+

project applications reviewed

1,600+

students & professors advised and coached

6,650+

attendees in events, seminars and workshops

280+

events, seminars, workshops, lectures

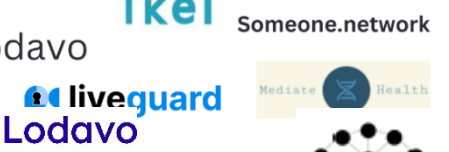
500+

students & profs trained & mentored through all our programs

1.1K+

company interactions

SUPPORTED TEAMS since 2013



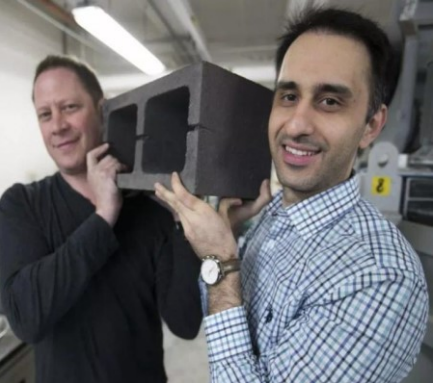
- Artificial Pancreas Inc.
- Pronto Medical Technologies I
- Ava Orthopedics
- RF-Bra
- Solar Water Splitting Devices
- NZVI
- Maple Syrup Extract
- Biomedical Polymer Coating
- INTRALATTICE
- SokoMtaani
- Immersed
- CognitiveChem
- UV LED Curing System
- ULTRASENSE
- EFFORTLESS AI
- In-Vitro Skin Models



TechAccel Program Participants:

\$186,000, 75 ventures, 245+students,
 22% female, 43% other faculties, 47% still active,
 Skills developed/increased: +14% innovation +22% entrepreneurship






STUDENT STARTUP SUCCESS STORIES



CarbiCrete

 | **ORA**
GRAPHENE AUDIO

 **TemperPack**

 **Bluecity**


TAIGA MOTORS


Hydrolux

Mogile
Tech

 **LOCAL LOGIC**

TAIGA MOTORS

Hydrolux

SPORT
LOGiQ

 **ensequake**



Tulsi.farm
GOOD FOR US, GOOD FOR EARTH.

 **Neat**
acrylic
robotics



LFAnt MEDICAL


stocate
Helping you buy locally

 **BaseDash**

 **Sweater Planet**

Ora-3D
3 Dimensional oral care

 **copysmith**


7square

CURRENT FUNDING & TRAINING PROGRAMS

- [Innovation Fellowships](#), post-doc fellows commercializing research, (TRL4), grant of \$50,000, 1yr
- [William and Rhea Seath Awards](#) in Engineering Innovation, annual competition, commercializing research (TRL3), two awards of \$25,000/6 months-1yr project
- [TechAccel R Grants](#), professor-led early stage inventions (TRL2-3), twice/year, up to \$15,000/invention
- [Invention to Impact Training Program](#), experiential learning for McGill graduate students and their PIs to gain insight into technology commercialization and entrepreneurship via customer discovery process, EEO, teaching entrepreneurship skills to researchers to use throughout their careers
- [TechAccel Program](#), student-led projects, three times/year, Pre-Grant, Grant, Summer Stipend – Enriched Educational Opportunity (EEO)-CCR recognition
- [Summer Startup Internship Program](#), provide mentorship & learning experiences for McGill undergrads over summer at our early-stage ventures, \$6,675 award for intern, 12 weeks

Personalized business mentorship provided across all programs.

PROGRAMMING (events and more training)

- [Entrepreneurship-in-Action speaker series](#)
- [Annual John D. Thompson Entrepreneurial Development Seminar](#)
- [TechIdea Pitch Competition](#)
- [Pre-Startup Skills Development Workshop Series](#) (CCR recognition)
 - #1 - Technological Innovation and Entrepreneurship 101
 - #2 – Startup Law 101 – Compass Startup Legal Clinic
 - #3 - Design Thinking Methodology
 - #4 - Market Research and Analysis of Competition
 - #5 - Foundations of IP and Patent Searching
 - #6 - Customer Discovery
- [Startup Skills Workshops](#)
 - #1 - Financing My Early-Stage Innovation-Driven Venture
 - #2 - Venture Capital Funding
- [Annual Women in Entrepreneurship Panel](#), co-hosted with POWE
- Networking events: [Annual Celebration of Innovation & Entrepreneurship](#), [Talent-Venture Match](#)
[Networking Events](#)
- Partnered-events: [Coopérathon](#), [AquaHacking-Quebec](#)

COACHING, MENTORING, CONNECTING

- [Book an appointment here!](#) with Associate Director or [Ronald Chwang EiRs](#) or Dr. Diniz for industry partnerships
- One-on-one advising and coaching on:
 - Commercial potential
 - IP protection
 - Lean startup methodology
 - Business model canvas
 - Identifying potential technology receptors and end-users
- Online training platform [Empowered Startups](#)
- Business mentorship from our Ronald Chwang EiRs – knowledgeable and experienced entrepreneurs and innovators with variety of backgrounds
- Connecting to other resources across campus and Montreal
- Connecting students and professors to peers, industry experts, stakeholders
- <https://www.mcgill.ca/engine/resources/mcgill-engine-centre-support/partners>