

5 key pillars to the Academic Plan

- Transformative Teaching & Learning
- Student Experience
- Innovative Research and Entrepreneurship
- Collaborations and Partnerships
- Strategic Resources

- global leader in pedagogical development and teaching innovation in engineering education.
- build rich experiential learning and professional development opportunities for undergraduate and graduate students
- prepare students to resolve global challenges
- integrate active learning pedagogies to encourage life-long learning



Figure 3.3c Undergraduates with Percentage of International Students, 2011 to 2020



 Increasing diversity of source countries: 2017: 43 countries 2021: 59 countries

Target: 30% in 2022 Current: ~ 29.5%

• Enhance the diversity of the learning environment

Figure 3.6a Graduate Students by Degree Type and Gender with Percentage of Women Students, 2011–2012 to 2020–2021







Target: Grow graduate student enrollment by 15% Current: ~ 13% since 2017

Target: 50% by 2022 Current: ~ 38.4% - highest in Canada

• Enhance the diversity of the learning environment

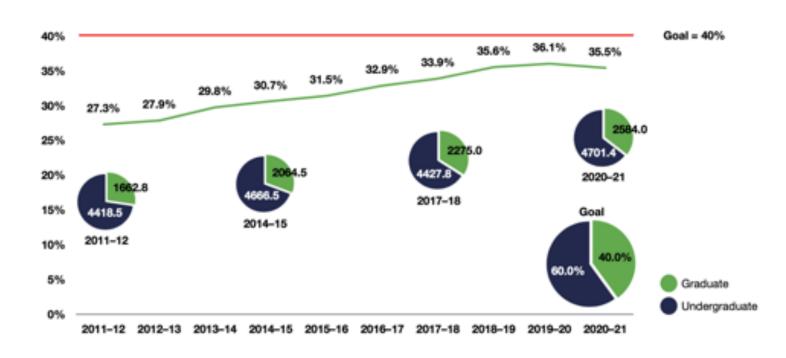
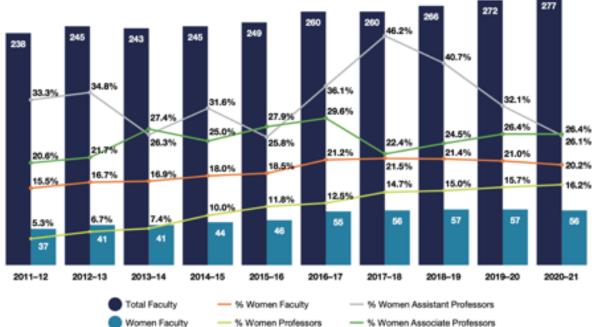


Figure 2.3c Ratio of Undergraduate to Graduate Full-Time Equivalent Students, 2011–2012 to 2020–2021

• Enhance the diversity of the learning environment









Professor Sarah Haines Professor Myrtede Alfred Civil MIE

Student Experience

- improve the quality, accessibility and delivery of academic advising services
- encourage co-curricular opportunities and grow undergraduate professional development





Engineering Academy helps first-year students hit the ground running

'My dream job' – Designing autonomous space robotics

- Assistant Dean Diversity, Inclusion and Professionalism
- Critical Incident Coordinator role
- Mental Health Programs Officer



Self-driving vehicle earns fourth straight victory





Synthetic 'soil' for hydroponic root vegetables

Student Experience

FIRST-YEAR ADVISORS www.uoft.me/fyo

LEARNING STRATEGIST Shahad Abdulnour www.uoft.me/englearningstrategist

INCLUSION & TRANSITION ADVISOR Mikhail Burke www.uoft.me/inclusionadvisor

MENTAL HEALTH PROGRAMS OFFICER Melissa Fernandes www.uoft.me/MHP0

EQUITY, DIVERSITY & INCLUSION (EDI) INITIATIVES www.uoft.me/EDI

Provides resources and raises awareness to realize our commitment to equity, diversity and human rights. The Faculty's incident disclosure form can be accessed at uoft.me/engdisclosure

SKULE MENTAL WELLNESS www.wellness.skule.ca

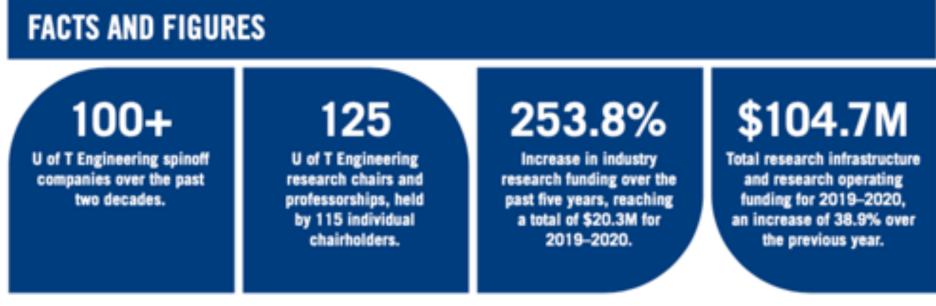
Student group that advocates for mental health and wellness within U of T Engineering. They create student resources, events, workshops and activities.

GECoS MENTAL WELLNESS COMMISSION www.uoft.me/gecoswellness

The Graduate Engineering Council of Students (GECoS) Mental Wellness Commission provides advocacy, education and socials.



Faculty-in-Residence



CRC Target : 47 Actual : 49 Target :\$13.2 M / year

Figure 4.1a Total Research Funding (Infrastructure + Operating), 2010–2011 to 2019–2020

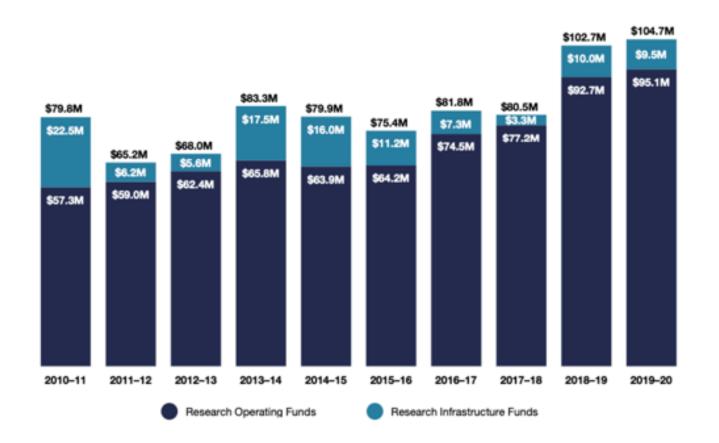
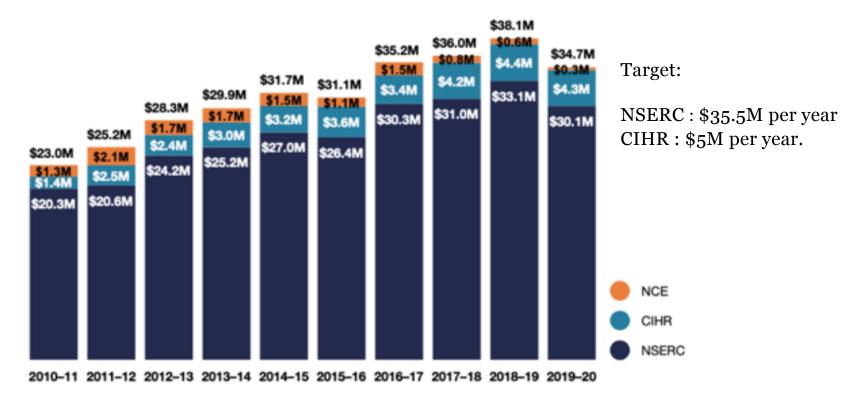
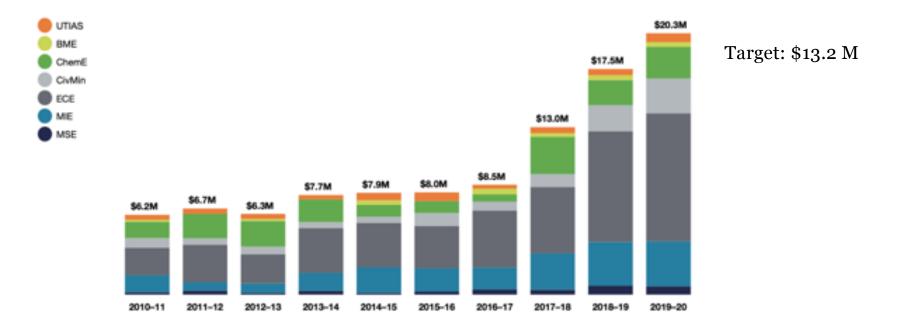


Figure 4.4a Tri-Agency and NCE Support: CIHR, NSERC and NCE Funding, 2010-2011 to 2019-2020



• growing opportunities for SSHRC

Figure 4.6a Industry Research Funding by Academic Area, 2010-2011 to 2019-2020



- Increase our support for transformative cross-disciplinary collaborative research that inspires innovation.
 - Institutional Strategic Initiatives
 - Data Sciences Institute
 - NRC-partnerships (CRAFT / CC-GEN)
 - Acceleration Consortium
 - and others...
 - Dean's Strategic Fund (https://hub.engineering.utoronto.ca/deans-strategic-fund/)
 - catalytic towards our Academic Plan : teaching, research, student experience, and partnership.
 - emphasis on cross-divisional, cross-campus, collaborative
 - 2021-2022: 32 proposals with total ask of > \$10M
 - to date investment by DSF : \$49M since 2012
 - expanding partnerships team
 - Project 27 Strategic Research Officer
 - co-funded MITACS officers
 - stronger synergies cross-division / cross-campus

Collaborations and Partnerships



<u>Blueprint: A new STEM</u> <u>community at U of T</u> <u>Engineering</u>



<u>Blanket Exercise — Raising</u> <u>awareness of Indigenous</u> <u>issues</u> > 1,200 alumni took on volunteer roles in 2020–2021, about 20% more than the previous year.

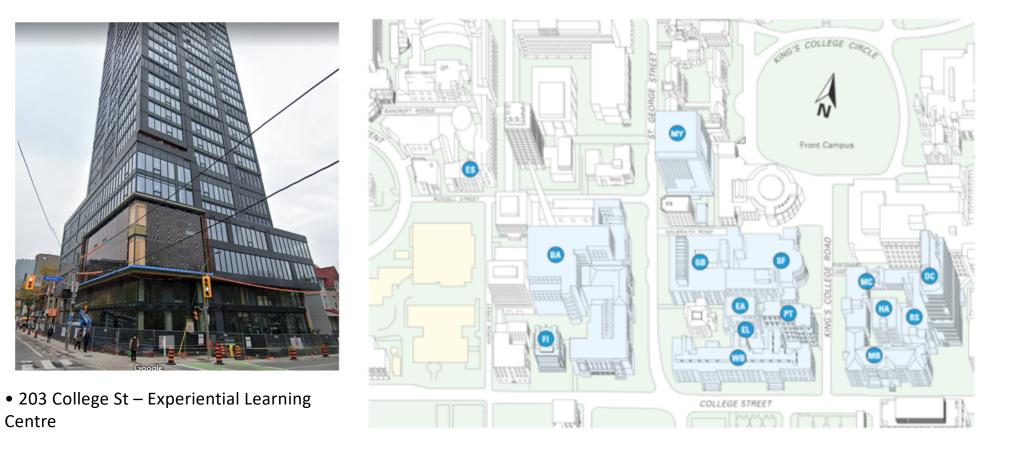
• Exciting new opportunities to expand our minor and certificate offerings, outside FASE

- public health
- building science
- ...
- Despite COVID international partnerships continued to flourish



Joint Translational Centre for Digital Health

Strategic Resources



• Looking towards expanding our footprint

Strategic Resources



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