

Engineering for a Better World: Supporting ChemE Leaders Today for a Brighter Tomorrow



UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

Help us educate the 21st-century engineer

Join us in our commitment to support outstanding chemical engineering students fulfill their dreams—now and far into the future.



The Faculty of Applied Science & Engineering is Canada's top-ranked engineering school and one of the world's best. Alumni and supporters like you have helped us achieve this standing.

At the Department of Chemical Engineering & Applied Chemistry, we are laser-focused on enhancing and enriching the student experience. We are educating the 21st-century chemical engineers who will thrive in the circular economy, as well as contribute to the solutions the world urgently needs for a more sustainable future.

Chair Ramin Farnood leads the Department as we strive to be among the world's best in offering an innovative, up-to-date chemical engineering education. In line with this vision, three new leadership roles have been created to better support our students. Our new Associate Chair, Undergraduate Student Experience and Associate Chair, Undergraduate Curriculum Development will work together to integrate sustainability across all four years of our undergraduate curriculum. Our new Associate Chair, Continuing Professional Development will support the growing need for the up-skilling of our work force. Additionally, two new faculty members have been hired to enhance the Department's strengths in applied AI and global health.

Contributions to the **ChemE Chair's Fund** give us the flexibility to seize opportunities as they arise in the rapidly evolving scientific and higher education sectors. Your gift will provide a core source of funding that supports exciting initiatives in modernizing our Unit Operations Lab (our flagship undergraduate experiential learning facility) by incorporating sustainable unit operations, as well as co-curricular programs, equipment purchases, research projects, student clubs, travel expenses, mentorships, and much more.

As well, post-pandemic, student financial aid remains a priority. Engineering students face thousands of dollars in tuition, residence fees, and other expenses—and these financial barriers have only increased due to the challenges of the past few years. Please consider funding a scholarship or bursary. Starting at \$2,500 a year, you can establish a named award that empowers high-performing students, helps those in financial need, and creates a meaningful legacy reflecting your interests and objectives.

You are an integral part of our community. As we accelerate our efforts to support student success, please consider investing in our talented chemical engineering students. We hope, as well, that you will join us at an upcoming event, such as our Lectures at the Leading Edge series, which this year has the theme "Envisioning the Future of Chemical Engineering."

Thank you for being part of our vision for the future of chemical engineering.

#1

**U of T ranks first in Canada for
Chemical Engineering by the
2022 QS World Ranking**

597

**ChemE undergraduate students
(2022–23)**

243

**ChemE graduate students
(2022–23)**

Support student success

NAMING OPPORTUNITIES

Support the ChemE Chair's Fund by naming a bench or table at the Myhal Centre for Engineering Innovation & Entrepreneurship. This can be named after yourself, a loved one, or your class year.

- Bench outdoors (approx. 3 metres): \$7,000
- 6-seat table in the auditorium: \$10,000

You will also become a member of the Skule™ Society and the Presidents' Circle, as well as receive an exclusive invitation to a breakfast with Chair Ramin Farnood and one of our Lectures at the Leading Edge.

Your generosity helps talented students expand their horizons, by funding their travel to conferences, competitions, and other professional development opportunities. Here is a sample breakdown of costs per student to travel to a national conference:

Accommodation (\$/four nights):	\$500
Airfare (\$/round trip):	\$500
Early bird registration fee:	\$150
Early bird student banquet fee:	\$100
Per diem:	\$75
TOTAL:	\$1,325

SCHOLARSHIPS, BURSARIES & AWARDS

Scholarships, bursaries, and awards enable students to thrive. They offset tuition fees so students can focus on learning and take advantage of the Faculty's expansive extracurricular opportunities, forging connections within the Skule™ community and developing the competencies needed to tackle the world's most challenging problems. All this is made possible through the generosity of caring benefactors like you.

Many students experience academic, social, and financial pressures. Scholarships recognize academic achievement, while bursaries and awards are based on financial need. Each type of award plays a critical role in supporting student needs.

UNIT OPERATIONS LAB

We are lucky to be one of the few chemical engineering departments in Canada to have our very own Unit Operations Lab. It is at the core of the education and research mission of the Department of Chemical Engineering & Applied Chemistry. The lab provides students with practical, hands-on experience on an industry-relevant scale.

Our vision is to drive the continued evolution of the Unit Operations Lab as one of the foremost chemical engineering teaching labs in the world. The revitalized facility will include modern instrumentation and automation capability, with an outward focus on the wide variety of industry sectors that employ chemical engineers. It will be the Faculty's premier wet lab, serving undergraduate students from ChemE as well as MIE, CivMin, MSE and EngSci.

Your gift to the ChemE Chair's Fund will support physical renovations, including space modernization, acquisition of new experimental equipment, and the modernization of the distillation column.

ESTABLISH YOUR LEGACY

Did you know that you can support the students of tomorrow by leaving a gift in your will or estate to the ChemE Chair's Fund? Gift planning and bequests allow you to make a strategic and affordable charitable donation that creates maximum impact.

Many of our alumni have seen first-hand how students who learn in an atmosphere of innovation and entrepreneurship become the engineers who make a real-world impact—and feel that their own education changed their lives in invaluable ways. Increasing financial support to students or your department helps to ensure that others benefit from those same opportunities.

Engineering real change in the world

Kimberly Watada (ChemE 2T2 + PEY) decided early in high school that she would study engineering. “I’m passionate about fighting climate change,” she says. “I picked chemical engineering because it gives me the tools to make a real difference.”

She is certainly making a difference during her time at U of T.

During the pandemic, Kimberly served as Academic Director of the Undergraduate Chemical Engineering Council (Chem Club), helping facilitate the shift to online learning. “This experience was very rewarding,” she says. “It gave me insights into how to accommodate different perspectives.”

After her first year, she won top prize in a national conference for her presentation on a sustainable method of mining rare earth metals. Since then, she’s co-authored two papers under Professor Gisele Azimi, studying how to reduce emissions of traditional metallurgical methods.

Passionate about gender equality, she is a regular speaker at panels promoting STEM to female students, including a presentation at Women in Climate Tech during the Climate Week NYC in 2021.

She now serves as Chair of the Canadian Society for Chemical Engineering U of T Student Chapter, leading her team in organizing professional development opportunities.

Donor support has helped Kimberly every step of the way.

She notes this support comes not only from the scholarships she’s received, but also through travel funding. Recently, she participated in the Climate Investment Challenge, a graduate-level competition hosted by Imperial College in England. Her group placed third out of 100+ teams for their presentation on mitigating wildfire impacts. “It was eye-opening,” she says. “It inspired me to keep learning.”

Now in the final year of her BAsC in chemical engineering, with a minor in business and sustainable energy engineering, Kimberly reflects on the importance of donor generosity. “It’s given me financial security to be dedicated to my academics,” she says. “It helps me to be the best I can.”



Helping us help them

CONTRIBUTE TO THE CHEME CHAIR'S FUND

By pooling your gift with others, you help enrich the student experience, like Kimberly's, through co-curricular programs such as the U of T Student Chapter of the Canadian Society for Chemical Engineering; student clubs such as the Chem Club and University of Toronto Chemical Vehicles; and innovative initiatives like the Unit Operations Lab, one of the Faculty's flagship laboratory facilities.

ESTABLISH A SCHOLARSHIP

Create a Named Expendable Award

You can establish an award for \$2,500 a year for five years (or a one-time donation of \$12,500). Expendable awards provide an affordable option to support students, celebrate a milestone, or honour someone special. The full amount of your donation is distributed over a finite period. When the funds run out, the scholarship comes to an end.

Create a Named Endowed Award

Endowed scholarships start with a contribution of \$5,000 a year for five years (or a one-time donation of \$25,000). The University invests the entire amount of your donation. Each year, a portion of the investment income is distributed as a student award and a portion is reinvested to protect the value of your original gift against the effects of inflation. Your donation is thus guaranteed to generate an annual award in perpetuity. You may also choose to continue to contribute to the endowment, increasing the value and impact of your scholarship or bursary over time.

With both expendable and endowed awards, benefactors can design their own scholarship terms. A custom scholarship allows you to have a more personal impact, ensuring that your values and interests are reflected.

KING'S COLLEGE CIRCLE HERITAGE SOCIETY

With a planned gift, you can establish a meaningful legacy through a variety of affordable methods suited to your financial and philanthropic goals. Consider making a gift in your will to the Department of Chemical Engineering & Applied Chemistry—or name the Department as a beneficiary of a life insurance policy or a registered retirement fund.

SKULE™ SOCIETY

Supporters who contribute \$1,000 or more to any award, program, department or student initiative join the Skule™ Society. Members of this exceptional leadership community not only help educate our most promising engineering scholars, but receive a Skule™ Cannon lapel pin, event invitations and special opportunities.

PRESIDENTS' CIRCLE

If you give \$1,827 or more annually, you will also become part of the University of Toronto's Presidents' Circle, a unique recognition society for those donors whose commitment reflects the vision and leadership of the University's past presidents. Members are invited to attend special lectures and events presented by the University's most celebrated and inspiring professors.

My commitment to student success

Your support plays a critical role in helping us open doors for aspiring engineers. We hope you will consider joining us in our commitment to helping young minds reach their full potential — now and far into the future.

Make your online donation to the ChemE Chair's Fund [here](#):

If you are interested in naming a bench or table and/or establishing an award please contact Nadia Gibbons, Senior Development Officer at Nadia.gibbons@utoronto.ca or 416-978-0380. If you'd prefer to send your donation via mail, please see instructions below.

My Gift

Complete the form below and mail to:

J. Robert S. Prichard Alumni House, 21 King's College Circle, Toronto, ON M5S 3J3

OPTION A

YES! I'll help educate the 21st century Engineer by supporting the ChemE Chair's Fund: Benches and Tables can be pledged over several years – limited available, please contact us first to secure

- Bench outdoors (approx. 3 metres): \$7,000
- 6-seat table in the auditorium: \$10,000
- I would like to make a gift in the amount of my choosing: _____
- I would like to speak with you about leaving a gift in my will, my contact details are provided:

OPTION B

YES! I would like to speak with you about establishing a named scholarship/bursary. Both can be pledged over several years

- I would like to name an expendable scholarship/bursary (minimum \$12,500)
- I would like to name an endowed scholarship/bursary (minimum \$25,000)

Please reach out to me at:

Name: _____

Phone Number: _____

Email: _____

Payment information

- My cheque is enclosed (payable to the University of Toronto)

OR

- Charge my credit card:
 - Visa
 - Mastercard
 - American Express

Name on card

Signature

Credit card number

Expiry date

Date of donation

Phone number

Thank you for your continued support.