2022-23 Impact Report

CENTRALIZED PROCESS FOR STUDENT INITIATIVE FUNDING

UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING

Introduction

Diverse co-curricular opportunities are offered to engineering students to enhance their university experiences. Students have the opportunity to lead initiatives and participate in a variety of clubs including design, sports and recreation, cultural, arts and performance, professional development, departmental/disciplinary, and humanitarian. This report highlights the student groups' accomplishments for the 2022 – 2023 year.

The Centralized Process for Student Initiative Funding (CPSIF) reviewed and approved funds for 83 student clubs and initiatives for the 2022 –2023 academic year, for a total of $368,533.64

The funding breakdown is as follows:

Number of Applications: 88

Number Approved: 83

Total Funding Awarded	**$368,553.64**
BME – Institute of Biomedical Engineering	$20,400.00
ChemE – Department of Chemical Engineering and Applied Chemistry	$16,061.16
CivMin – Department of Civil & Mineral Engineering	$16,800.00
DO / EAN – Dean's Office / Engineering Alumni Network	$94,865.00
ECE – The Edward S. Rogers Sr. Department of Electrical & Computer Engineering	$51,925.00
EngSci – Division of Engineering Science	$27,000.00
EngSoc – Engineering Society	$30,805.92
MIE – Department of Mechanical & Industrial Engineering	$87,700.00
MSE – Department of Materials Science & Engineering	$10,200.00
YNCN – You're Next Career Network	$12,796.56

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Association of Chinese Engineers (ACE)

Total Funding Awarded	**$1,850**
BME	$50
ChemE	$100
DO / EAN	$1,000
EngSci	$100
EngSoc	$400
MSE	$50
YNCN	$100

ACE, also known as the Association of Chinese Engineers, is a highly esteemed student association within the Faculty of Applied Science & Engineering. Our mission is to foster a sense of multiculturalism, friendship, and effective communication among engineering students. To support our members' growth and success, we offer a diverse range of academic, professional, and social events and services. In the 2022-2023 academic year, ACE boasted an impressive membership of over 500 active individuals, solidifying its position as one of the largest student associations within the U of T Engineering community. Additionally, we received a generous contribution of $2250 from engineering departments, which was allocated entirely towards the purchase of gift cards for our esteemed guest speakers, as well as gifts, props, and refreshments for our various in-person events.

Throughout this year, ACE successfully organized three key event categories: Academic events, such as the CDS, which focused on enhancing technical skills; Professional development events, including the PEY seminar and the summer research workshop, aimed at equipping students with valuable industry insights; and student-life oriented events, like the freshmen orientation and new year party, fostering a vibrant and engaging campus experience for all.

During the 2022-2023 academic year, ACE achieved great success in organizing a multitude of academic events, with particular emphasis on the CDS Hackathon (Figure 1). As first-year students, many individuals found the Engineering Strategies and Practices courses to be quite challenging, especially when it came to the significant assignments of CDS. Recognizing the need for additional assistance, both from Course Instructors (CIs) and professors, we stepped in to provide the support that students desired. The hackathon took place online via Zoom on March 20th. A total of nine instructors collaborated with us to offer extra guidance on CDS to over 300 participants. Furthermore, we facilitated one-on-one meetings between individual teams and CIs, enabling them to receive personalized suggestions and advice on their assignments. As a token of appreciation, all the instructors who participated in the Hackathon were rewarded with gift cards, purchased using our allocated funds.

In addition to our traditional academic events like the CDS Hackathon for first-year engineering students, this year we introduced innovative programs such as the mentorship project. We encouraged third and fourth-year students to volunteer as mentors, providing guidance, support, and answering questions about student life. As a gesture of gratitude, mentors who willingly signed up were presented with small gifts, funded by our organization. The program was successfully launched, with dozens of students immediately enrolling. Each mentee was assigned a specific mentor, and a project manager oversaw the mentors, regularly checking in with the mentees and collecting their feedback, suggestions, and inquiries regarding the program. The feedback on this new initiative was overwhelmingly positive, leading to its planned continuation in the upcoming year.

CDS Hackathon Live Session

This year, ACE organized two prominent events focused on professional skill development: the PEY seminar and the summer research/internship workshop. The PEY seminar took place online on September 12, attracting a participation of over 40 students. We invited accomplished upper-year engineering students to share their insights on job hunting and adjusting to work environments. Following the presentations, students had the opportunity to engage in discussions with the speakers, seeking answers to their queries. This event marked the fourth time ACE organized such an initiative, aiming to offer additional support and information about the Professional Experience Year to students. The feedback received was overwhelmingly positive, demonstrating the event's impact. The allocated funding was utilized for event hosting and purchasing gift cards for the esteemed guest speakers.

On January 21, we hosted the summer seminar (Figure 2) to provide valuable information about summer professional development opportunities while encouraging students to have a fulfilling and enjoyable summer semester. Similar to the PEY seminar, we invited upper-year students who had experienced summer job searches or research opportunities to share their personal journeys. Following the presentations, students were able to engage in private discussions with the speakers, addressing any specific questions they had. Like the PEY seminar, the allocated funding was utilized for event logistics and obtaining gift cards for our guest speakers.

We also hosted the "Program Transfer Seminar", aiming to provide comprehensive information about the requirements, deadlines, and important details regarding transferring between engineering programs. The Program Transfer Seminar offered valuable guidance to students planning to transfer between engineering programs. We delved into the specific requirements, application deadlines, and other crucial information for transferring into different programs. Additionally, we invited experienced upper-year students who have completed successful program transfers to share their insights and advice. They shared personal challenges and success stories, helping students gain a better understanding of the transfer process and the efforts required.

Through one-on-one interactions with the speakers, students received more tailored and personalized guidance to make informed decisions.

In addition to our commitment to academic and professional development, ACE genuinely cares about enhancing the daily lives of students, as evident in our diverse range of events. Prior to the start of the academic year, we organized a Summer Preparation Seminar 1 about university life and Summer Preparation Seminar 2 about university study. In mid-August, we hosted an Online Seminar for Chinese Engineering first-year students, focusing on life at UofT. The seminar provided incoming students with insights into the university experience, emphasizing the opportunities and resources available to them. We invited upper-year students and professionals as guest speakers, to share their experiences and provided valuable advice. Additionally, the seminar featured sponsorship displays, showcasing various organizations and services that could benefit the students during their time at UofT. The allocated funds were used to support the online seminar and create a meaningful and informative experience for the participants.

Shanghai Summer Meetup

During the summer, ACE also conducted a housing seminar, featuring George Gan, an esteemed engineering alumnus (ECE 0T7), who shared invaluable advice and suggestions on investing in and finding suitable housing resources near campus. As a professional real estate agent, George has maintained an active connection with ACE and has consistently provided valuable information over the years. Following his speech, students had the opportunity to engage in conversations with George, receiving tailored suggestions based on their specific housing preferences. The funding was utilized to express our appreciation to George by purchasing gift cards, acknowledging his generous contribution of time and resources.

In early September, in accordance with public health guidelines and government regulations, ACE hosted the annual freshmen orientation encompassing both online seminars and an in-person campus tour. We organized two live online sessions (inviting upper-year students as guest speakers to share their experiences in various engineering departments and introduce new students to the diverse range of engineering courses available.

During the in-person campus tour, ACE prepared frosh kits for all new students seeking to familiarize themselves with the university. We guided them through the engineering buildings, libraries, and other campus resources and facilities. They also had the opportunity to engage in conversations with upper-year students, addressing any queries they had about navigating their daily routines on campus. The allocated funds were utilized to organize the event, print freshmen handouts, and procure items for the frosh kits.

Campus tour group photo

In adherence to Chinese tradition, ACE organized an online Chinese New Year party, aiming to introduce students to the rich cultural heritage of China. As the most significant festival in Chinese culture, Chinese New Year is a time for family reunions. Recognizing that many international students studying in Toronto were unable to return home and were alone during this festive period, ACE, as the sole Chinese culture club in the Engineering faculty, endeavored to create a sense of home and encouraged them to celebrate the holiday as a united "U of T Engineering family." The online event took place on New Year's Eve and offered a plethora of entertaining and festive activities, including specially designed group games. Considering the significance of this time of year, it was vital for every student to feel cherished and supported. The event provided a valuable opportunity for students to relax, forge new connections, and most importantly, experience a sense of love and belonging. The New Year party has consistently been the highlight of our annual entertaining events, and once again, we received overwhelmingly positive feedback. The allocated funding supported the event and enabled the purchase of New Year gifts for participants.

In addition to the events mentioned above, ACE has undertaken numerous projects throughout the year. We successfully launched ACEKnow, our dedicated COVID information page, which provides international students with comprehensive guides on entering Canada and returning to school safely. Furthermore, we introduced our own health code system, facilitating a quick understanding of the vaccine status and health conditions of individuals within the association and student body. Through our social media platforms, we have shared dozens of articles covering various aspects of student life at U of T, including guides on scholarship applications, UHIP insurance, obtaining a driver's license, and vaccination passports. In order to foster team bonding, we organized Fall and Winter Retreat events, providing members with opportunities to relax and get to know their colleagues better (Figure 7). To enrich students' personal lives on campus, we also hosted our annual dating party on Valentine's Day.

Dating Party

Winter Retreat

Bangladeshi Students' Association

Total Funding Awarded	**$650**
CivMin	$50
DO / EAN	$200
ECE	$200
EngSci	$100
YNCN	$100

Throughout the year, we organized a total of 8 events with the goal of engaging the student community, which was challenging during COVID. Our events included: Welcoming event, Bhooture Raat (movie night), Shimana Periye (A networking event), What The Fuchka (an exam destressor), Shornali Shondha (a tricampus gala), Bornomala (an event educating others regarding mother language day), Borshoboron (a multi-university New Year's celebration), and BSA Fundraising Dinner.

We greatly benefited from funding provided by SKULE, which allowed us to purchase food, decorations, and supplies for the welcoming event and movie night. Additionally, our Skule affiliation provided access to GB202 for our movie night. CPSIF funding was crucial in kick-starting our initial events, as it helped us reestablish the club and gain recognition to attract further sponsorship and funding.

Throughout many of our events, we were fortunate to have alumni join us as attendees, which added a sense of tradition and connection to our organization's history. However, one particular event stood out for its active alumni participation – our fundraising event. During this special occasion, we were honored to welcome back the founders of the BSA, who had established the organization over 25+ years ago at the University of Toronto.

These alumni played a pivotal role in making the fundraising event a grand success. They generously contributed by not only attending the event but also actively engaging in various aspects. Their support extended beyond their presence, as they played a crucial role in marketing the fundraiser to their networks. Their involvement inspired others to donate and spread the word, significantly increasing our fundraising efforts.

Having the founding members of the BSA participate in our fundraising event was truly a heartwarming experience. Their dedication and passion for the organization reignited the spirit of community and reminded us of the legacy they had created. Their continued support has been invaluable, and we are deeply grateful for their commitment to ensuring the BSA's ongoing success. Their involvement exemplifies the lasting impact of our organization and the strong bonds that connect past and present members of the BSA community.

Shimana Periye - BSA team at Networking Event

Charity Dinner Event

(From left: David Omar, Nowrin Hoque, Rubaina Farin, Afra Azad, Mithila Ali, Zunain Mallick, Rochona Khandaker, Jahin Kabir, Ishmam Eshayat, Tahseen Galib Pavel, Jannatul Oyshi)

Shornali Shondha - Tri-campus gala

Left to right: Tahseen Galib Pavel and Rubaina Farin

Tahseen is standing here holding his "Executive of the year" award won at the Unity Ball hosted by the UTSU for his work as the director of external affairs at BSA. Beside him, Rubaina Farin, holding the "People's choice award" won by the BSA at the unity ball.

Left to right: Rochona Khandaker, Jahin Kabir, Rubaina Farin, Ishmam Eshayat, Zunain Mallick, David Omar

This is a picture of a few BSA executive members holding an award for "Event Of The Year", awarded by Student Life for our networking event, Shimana Periye.

Biomedical Engineering Student Association (BESA)

Total Funding Awarded	**$7,800**
BME	$7,300
DO / EAN	$500

The Biomedical Engineering Student Association (BESA) is a graduate student-run group whose mission is to enhance the Institute of Biomedical Engineering (BME) graduate student experience within the University of Toronto through social, professional, academic and outreach events. Additionally, BESA serves as the voice for the BME graduate student body to the larger UofT and Toronto community. CPSIF funding has greatly contributed to BESA's efforts to achieve this mission over the past year.

The first event of the year was the BESA Orientation Week which was organized to welcome incoming students and introduce those who would otherwise conduct their research at different sites across Toronto. This event was led by our committed and enthusiastic VP Events, and their team, which was held in early September and included activities such as BME annual BBQ, Christie Pits Park picnic, and a social gathering at Prenup Pub. The cost of food and non-alcoholic beverages was fully covered by BESA's funds at each event. The Orientation week ended with students' in-person visit to Rogers Arena and Blue Jays game against Baltimore Orioles. The tickets to the game were distributed through a raffle several days before the game.

Blue Jays Game at Orientation week

In the Fall semester, our VP Events additionally organized an indoor rock-climbing activity at Joe Rockheads Climbing Centre.

Indoor rock-climbing at Joe Rockheads Climbing Center

The last event of the year was a board game café night at Snakes and Lattes, with a library of thousands of playable games, offered alongside food and drinks to promote student networking

in a more casual setting and celebrate the successful end of the year.

In terms of social events in the new year, the Events team wanted to introduce new students to Toronto/Canadian sport culture and organized a day of curling at Leaside Curling Center.

Curling at Leaside Curling Center

Other social events of the winter term included BME Chess tournament (winners received prizes in the form of Amazon gift cards); and St. Patrick's social event at Prenup pub.

Our Professional Development team held a successful fireside chat with representatives from Sanofi, a multinational pharmaceutical and healthcare company. The event had a good turnout and successful connections that lead to job follow-up inquiries. Gift cards were given as honorarium for the company representatives.

For community outreach work, the BESA team set up and Biomedical Engineering booth at this year's Science Rendezvous, an all-day festival that brings science out of the lab and onto the street. Our team prepared engaging and hands-on demonstrations and experiments to inspire the next generation of scientists to join the BME community.

Another academic event that received a substantial amount of CPSIF funding is Toronto Biomedical Engineering conference (ToBE) 2023, the longest running student-organized conference at the University of Toronto, that took place at Hart House on May 12th. This year the goal of ToBE team was to showcase the advancements of artificial intelligence (AI) in biomedical engineering. The ToBE team was striving to create a space to reunite the biomedical engineering community at the University of Toronto and beyond. The conference hosted three keynote speakers (Prof. Sonya MacParland (University of Toronto), Prof. Shuichi Takayama (Georgia Institute of Technology), and Prof. Yasser Itturia Medina (McGill University). The CPSIF funding was spent on extending the license and updating the ToBE website, conference merchandize for students, student award plaques, and gifts for keynote speakers.

The conference is one of the last events organized by this year's BESA executive committee. The Events team is currently planning annual end-of-the-year BBQ at Toronto Islands (this event is taking place at the end of May) and a biking brunch (this event will take place early/mid-June) before the AGM (this event will take place late June) and elections for a new executive committee (beginning of July).

Blue & Gold Committee 2T2-2T3

Total Funding awarded	**$13,300**
ChemE	$2,000
DO / EAN	$5,000
ECE	$4,000
EngSci	$1,000
MIE	$1,000
MSE	$300

Throughout the years, the Blue & Gold Committee has informally been known as the group that teaches you everything you don't learn in the classroom. We have taught many important skills such as carpentry, power tools, soldering, and electronics to students of all years through our builds, teaching events, tool lending, and overall support of the UofT Engineering community' culture. Beyond this, we have also proudly carried the role of the largest spirit organization within UofT Engineering, running many community events such as bus trips, movie nights, and Godiva Week. It is our belief that Skule should be more than academics and professional development; through these destressor and spirit events, we want to make the undergraduate and graduate experience not only informative, but genuinely enjoyable.

2T2-2T3 has been a year like no other. The first fully in-person year after 3 years of delayed events and hybrid concessions, we welcomed the new class of students, upper years, and alumni alike in events this year ranging widely in involvement - yet, all with astounding impact on the engineering community. We have been able to continue our traditions, and build new ones. Affecting over 300 undergraduate students over 75+ events, gaining 200 followers in our social media, and increasing engagement from Faculty to First Years culminating in being awarded the title of "Affiliated Club of the Year" by the Engineering Society - this year has been an inarguable success.

This year, the Blue and Gold Committee constructed builds for the Toronto Pride Parade, F!rosh Week, Remembrance Day, and The National Day of Remembrance and Action on Violence Against Women, as well as builds for teaching known as Tools101 and 102. Additionally we ran the first in-person Godiva Week since January 2020, as well as a number of bus trips and smaller community events throughout the year. We also supported a number of external groups with their projects, such as clubs and design teams, as well as Skule150 (a special project directorship created to commemorate 150 years since the founding of Engineering at the University).

The majority of our builds are made using wood, which saw extreme inflation compared to pre-pandemic. When checked in June 2022 for the Pride Float build, we noticed that costs were approximately 300% higher than the last Pride Build in June 2019. While the cost fluctuated throughout the year, coming down slightly by the end, the cost of materials was significantly more expensive this year compared

to previous years. We expect this cost to stay high, and is unlikely to return to pre-pandemic levels anytime soon.

Additionally, while tools and equipment were used over the pandemic, very little money was spent over that time period to invest in new equipment to expand our repertoire and also replace tools that had fallen into disrepair. As a result, there was a significant increase in need for spending in this area this year.

Pride 2022

This year's Pride Parade was the largest in Toronto's history, with almost 2 million attendees! The first opportunity for UofT Engineering to showcase its Pride in the summer at a large scale, it was our honor to lead and organize the representation of diversity and allyship in the community. Over 100 engineering students marched in the parade. For every weekend a month prior to the parade, students and alumni gathered to build the pride float, a 3D rainbow with 8 colors - both representing the colors in the 8-colored Pride Flag, and each discipline in Engineering. CPSIF funding was instrumental in allowing us to purchase the required materials (6x6 beams and plywood, primarily) which made the build possible.

Pride 2022

Tools101 had over 100 first-year attendees, with CPSIF funding aiding us in procuring the material necessary for the giant Hungry Hungry Hippos structure. Though this build did not require costly materials, the nature of beginners using equipment results in damages to drills bits, broken or lost tools, and wasted material - all side effects of learning though error. As such, restocking and preparing for this inevitability was a huge impact of CPSIF's support.

Tools102 pushed the boundaries of electronics design and implementation - spanning the course of 2 days to accommodate for individuals' need for absorption of knowledge and accessibility to ensure no one had to stay late, CPSIF funding helped the committee provide students with the relatively costly electronics. This enabled us to build an arcade basketball game - complete with a timer and point counter which was open for all to play in the Sandford Fleming Pit.

The Blue and Gold Committee supported the memorial build this year. A cenotaph reminiscent of the one in front of Toronto City hall, an unmarked marble tomb to represent the fallen soldiers which remain unnamed, but never forgotten, and soldiers made of chicken wire to represent all those fallen in battle were all elements of the build. Taking just under a

week to put together, over 20 students worked tirelessly to procure the materials, design, model, and build the monument.

Our second memorial build, Blue & Gold proudly supported this women-led initiative to commemorate NDRAVAW - a day that is crucial for engineers to acknowledge to stand against gender-based violence in a male-dominated field. The goal of this memorial was to incite action. The 13 plexiglass figures were engraved with the names of the Montreal Massacre so we remember their identities as more than nameless women - but as engineers in the making. These figures were illuminated by LEDs that travelled under the plywood platform upon which they stood. Members of the community were urged to stand with the women, completing their circle. When one person stood among them, the lights got brighter - when multiple people stood together, the lights came to life by changing colors. Paired with a ceremony attended by over 50 attendees, this build was not only successful in shedding light on an issue to combat - but was also only made possible through CPSIF's support

NDRAVAW

Taking place over the first week of the winter semester, the Blue & Gold Committee plans, coordinates, and provides this 5 day-long free-of-charge spirit week for all undergraduate students in its entirety. Planning started as early as October, with over 100 volunteers working tirelessly behind the scenes for the numerous events which take place.

This year, not only was it the first one in-person for the first time since 2019 (with it, huge participation from all the years that had not been able to have their own Godiva Week), but the stage was also in dire need of reconstruction. Made of sturdy plywood for safety, CPSIF funding allowed us to upgrade it to maintain student safety throughout the inarguably succesful week.

Hosting over 300 students, 50 alumni, and multiple Faculty members, participation was at an all-time high. We were able to celebrate the return to in-person activities and reignite the spirit of engineering in the community - as seen when 12 candidate pairings stepped forward to become the next chairs - a record number of applicants.

Blue Sky Solar Racing

Total Funding Awarded	**$25,600**
BME	$250
DO / EAN	$5,000
ECE	$9,000
EngSci	$1,500
MIE	$9,000
MSE	$100
YNCN	$750

Every year, CPSIF funding is crucial to the success of Blue Sky Solar Racing. Our team focuses on designing and building a solar powered vehicle from scratch and the expenses that go into this process are supported by capital funding as well as team sponsorships. CPSIF is one of the largest sources of funding for the team and allow us to bring the car over the finish line when we participate in every other year. The goal of the team throughout this past academic year was to finalize our 11th generation vehicle, host outreach events for a variety of audiences, and complete rigorous testing of the vehicle prior to shipping to Australia at the end of June.

Over the year, we were able to accomplish all of our goals, which brings the team to be ready to race in the 2023 Bridgestone World Solar Challenge. From a design perspective, the team spent countless hours redesigning and optimizing the vehicle to meet all race regulations for the 2023 challenge. The team was able to make structural modifications, mechanical and electrical system optimizations as well as implement telemetry simulations which directly correlates to the driving strategies we will be using at the race. The team was also able to put the car through numerous rounds of low speed testing, one round of high speed testing, and accomplish a long distance route where we were able to drive the car on Ontario roads. Finally, the team was able to host a number events, such as partnering with the Canadian Association for Girls in Science where young females attended one of our events to learn about the team and build a mini, operational solar car model. We also hosted an event partnering with UofT's own WISE group. Finally, we were able to host a successful unveiling event for our 11th generation car where high schools, alumni, faculty, and family & friends were able to attend. Overall, the success of our team was what we had set our goals for and would not have been able to be accomplished without the generous CPSIF funding.

Our organization engaged with alumni in two instances: our safety board and our unveiling event. The Blue Sky Solar Racing safety board is critical to the success and safety of our vehicle at race. The safety board consists of team alumni to evaluate the reliability of all subsystems. This group of members include: Amy Bilton, Jane Liu, Andreas Marouchos, Tomek Bartczak, Gabriel Iosif, Leo Han, and Zhe Gong. Throughout our entire testing phase, we had alumni visit to see the car in action as well as visited our workshop for scheduled reviews.

These reviews were also accompanied by reports created by the team with simulations of different subsystems to demonstrate the theoretical safety of the car. This group of people is extremely important to the team's success and safety.

At our unveiling event (May 1st 2023), alumni visited to see the car and how members have been able to redesign and optimize older systems. The support from alumni is so important to the team's confidence and success and allows us to continuously improve our future designs.

(From left: Doris Zeng, Tharaka Sivasabesan, Max Zhang, Aria Qadir, Paloma Manterola, Nikitha Manickam, Saira Rahim, Anthony Sergnese.

Saira Rahim

(From left: Tharaka Sivasabesan, Matthew Pihowich, Tony Kim, Kai Hashimoto, Anthony Sergnese, Raymond Yang, Juho Kim, Alex Zeng, Tristan Robitaille, Aria Qadir, Paloma Manterola, Saira Rahim, Max Zhang, Ryan Yang, Nikitha Manickam, Gobind Vasir.)

Brew of T

Total Funding Awarded	**$758**
EngSoc	$758

Brew of T is a club at the University of Toronto (UofT) dedicated to learning and experimenting with brewing. Since its conception in the spring of 2020, Brew of T has gained full status affiliation with the Engineering Society (EngSoc), ran 3 virtual brewing projects, and conducted 2 virtual industry panels. In Spring 2021 Brew of T was awarded EngSoc's Affiliated Club of the Year Award.

Brew of T used funding primarily towards large equipment purchases, and ingredients for in-person events. In particular, funding was used to purchase equipment for beer brewing, which was used by our brewing leads to test and research the process in preparation for the beer brewing event. The funding was additionally used to acquire gifts for industry events and stickers to hand out to grow the Brew of T community.

The funding we received from CPSIF has enabled us to build Brew of T from scratch, providing opportunities for students to gain hands-on experience using equipment, and simulating a design team experience. Without this funding, we would not have had access to the same quality or scope for our projects. In addition, investing in equipment that we will be able to reuse will help us ensure Brew of T has a sustaining presence on campus with the turnover of club members.

The unique way that Brew of T serves the UofT community has been proven by sustained interest from the community at large. Brew of T has a mailing list of 190 people, a community group containing 85 members, and received over 39 applications for exec positions. Brew of T was also recognized as the EngSoc Affiliated Club of the Year in 2021 in recognition of our community engagement. This is illustrative of the excitement and support from the undergraduate engineering community, and the benefit of this club's presence at the University of Toronto.

In addition to our brewing projects, we also ran highly successful industry tours. We were hosted by Mill St Brewery in East York, where community members were given a guided tour of the brewery. These industry tours allow us to keep in touch with alumni members and strengthen ties to the brewing industry to gain and apply knowledge for the events we host.

Kimchi Making Event

(From left: Sean Huang, Nathan Lieu, Sophie Sun, Emily Nguyen, Alyssa Nodello, Carmelle Chatterjee, Joshua Bussman)

Canadian Association of Food Engineers (CAFE)

Total Funding Awarded:	**$1,500**
ChemE	$500
DO / EAN	$300
EngSci	$100
EngSoc	$400
MIE	$100
YNCN	$100

The funding provided by CPSIF was used for a variety of things by the club. This mainly included alumni speaker gift cards, event expenses, and magazine printing.

Our most expensive event, and most successful one, was the plant tour to Amsterdam Brewery. This included purchase of the actual tour entry and transportation costs, all completely covered by the club. Pictures from this event have been attached. CAFE thinks this event exposed students to the inner workings of a brewery and everything from manufacturing to sale. Students got to see industrial sized reactors and equipment and apply their engineering knowledge to the production of beer. The tour was very insightful and attendees left with a lot of new information.

Plant Tour to Amsterdam Brewery

Plant Tour to Amsterdam Brewery

Other event costs included speaker gift cards and event raffles/prizes as incentives. These events include the Kickoff Event, the Food Engineering Conference, and Dismantling Diet Culture. The kickoff event was very important in introducing the club to students at the start of the year. The Dismantling Diet Culture event is one very important to CAFE as it highlights the negative effects of diet culture in modern day society and how they can be managed whilst addressing the mental health challenges students can face. This event also involved a

dietician, in addition to a psychotherapist, to give a more science view into diet culture for our engineering students. Finally, the Food Engineering conference was an insight into the world of food engineering for our students. We had speakers from both industry and research share their day-to-day experiences so students could gain more knowledge in the industry and further gauge their interest.

Some of the money was also used to fund our magazine, The Engineer's Bite. Money was spent to get graphic designing software, print physical magazine copies, and for prizes upon completion of activities found in the magazine. The magazine allows students to gain snippets of knowledge in the food engineering industry and about food as a whole. The magazine includes interviews, knowledge articles, and even event summaries. Students can also find such digestible knowledge on our instagram in the form of food facts. The graphic designing software was used for these, and marketing, as well. As a new form of marketing to attract attention to our events, the club printed posters which also required some funding. Money was also used to renew our club website, so students can find all the information in one place.

CAFE also had a lot of interaction with alumni, through numerous events and coffee chats. Our monthly coffee chat involved getting an alumni speaker in the food industry to chat with attendees and members. Some of our events like the Food Engineering Conference also heavily relied on alumni speakers sharing their industry and research experience to provide students with insight in the food engineering field. The alumni were all offered gift cards as a token of appreciation.

Alumni guests:

a) James Yin (Chem 1T9)
b) Naayaab Nagree (Meng 2T3 – Chem)
c) Ian Chown (Chem 0T3)
d) Praneet Bagga (Chem 1T5)

Canadian Electrical Contractors Association (CECA) UofT Student Chapter

Total Funding Awarded	**$1,410**
CivMin	$200
DO / EAN	$150
EngSci	$60
EngSoc	$1,000

The funding was used to purchase food, such as pizza, for our club kickoff/recruitment meeting in October for the Solar Decathlon Challenge. The funding was also used for club advertising at the clubs fair in September, such as pens, stickers and poster printing, to attract more students and reach a wider audience across all disciplines, not just civil engineering because building energy performance is a field that requires knowledge from other engineering disciplines.

We also held a collaboration networking event with CSCE with alumni and industry professionals. CPSIF funding was used to buy food for the event (St. George catering) and gift cards for the winner of the networking bingo as well as gift cards for the industry professionals that came. This event attracted many first years and gave them a chance to connect with upper years as well as alumni. We also introduced a Construction Management Case Competition for the first time so the money was used to buy pizza and donuts for the participants and supplies for the event like construction drawings, instruction manuals, and paper. We also got gift cards for our two judges who were from Synergy Partners as well as gift cards for the winning team and cash prize. The CPSIF funding has helped our club achieve our goals of engaging students and made our events successful, with a much larger turnout than previous years.

The funding was significant to our club as it increased our event attendance. By providing food and snacks at kick off meetings and being able to conduct the networking night, we were able to attract more students, therefore engaging with the broader student body, across more disciplines such as Mechanical Engineering. Our construction management competition was off to a great start and we anticipate that by partnering with Synergy Partners, it will attract even more participants in future years. Some of our funding was used to purchase gifts for the professional engineers involved with our club, many of whom have continuously helped us out tremendously in their free time.

Our website and blog have grabbed the attention of the national CECA organization and we have been featured on their site for our work and involvement. The club merchandise allows our members to show off their Skule Spirit and recruit/engage more members. The sources of funding from the Centralized Process for Student Initiative Fund includes Engineering Society, Engineering Science Division, Department of Civ/Min Engineering and Engineering Alumni.

CECA worked extensively with alumnus Peter Vuong, a CIV 1T9 + PEY student who reached out looking to get more involved with university clubs as a representative of Synergy Partners. Peter helped us connect with judges from Synergy Partners (Ishaan Prabhu and Sean Davidson from Restoration Team) for our Construction Management Case Competition. We also reached out to Ernesto Diaz Lozano Patino (CIV 1T6 + PEY) and other CECA alumni for our networking night which was very engaging and successful. Ernesto has been very actively involved with club events and has greatly paved the club's vision and direction, even after graduating. The networking night is featured here where students got an opportunity to interact with industry professionals and have fun as well with the Bingo activity.

Canadian Society for Chemical Engineering (CSChE)

Total Funding Received	**$1,936**
ChemE	$1,936

CPSIF funding was used to subsidize professional development and social events for chemical engineering students. The funding contributed to the vibrant SkuleTM community, especially for Chemical Engineering students through the following detailed events:

The Professor Student Mixer is a social event that allows students to communicate and interact with their professors in a friendly environment. The event is primarily aimed for first and second year ChemE students to meet their future professors. During the event, 8 professors from various teaching streams provided introductions and descriptions of their courses to attending students. In-person Q&A sessions as well as trivia games amongst the students and professors were held during this time.

Prof-Student Mixer

Each semester, we invite alumni from the Chemical Engineering and Applied Chemistry department to speak about their careers in various sectors and their transition from academia to industry. To accommodate a variety of student interests, we contacted alumni speakers from diverse backgrounds via the Engineering Connect network. For example, some sectors we covered include: consulting, environmental, nuclear energy and process management. This variety of sectors highlights the versatility of a chemical engineering degree. Students also had the opportunity for Q&A sessions with alumni related to PEY and future career pathways.

Alumni guests:

a) Jacob Foster
b) Masum Billah
c) Marchia Pedroza
d) Anton Meier
e) Blossom Jhamtani

Research Days is a major annual event hosted by CSChE with the goal of providing the opportunity for faculty members to share current and future research projects in their labs for students in chemical engineering. Various funding applications, such as NSERC, UTEA, MITACs and more were discussed. This year, the Research Day event welcomed 6 professors and post-docs to cover 2 main fields of research: 1) sustainable energy & atmospheric chemistry, 2) biomedical & bioprocess engineering. Attending students also had the opportunity to submit their resume for professors and network with the researchers after the lab presentations. The event had a turnout of over 100 people – doubling the number of attendees in the previous year.

Professor Werber at the Research Days event

At the end of every summer, CSChE hosts a Summer Research Symposium which serves as a prerequisite for the Reg Friesen Oral Paper and Robert G. Auld competition. This year, the Symposium drew 13 participants for our Robert G. Auld technical paper competition, judged by a panel of 6 judges - consisting of Chemical Engineering professors and PhD candidates. The judges provided valuable feedback to participants to improve both their research and presentation skills. The top two presentations selected by the judges were sponsored by the Department and our Chapter to represent UofT at the annual CSChE Conference hosted in Vancouver, BC. We announced the winners through a Closing Ceremony and awarded them certificates while presenting a trophy to the first-place student.

Participants at the Summer Research Symposium

Each year, our chapter provides our students with the opportunity to attend the annual Canadian Chemical Engineering Conference.

This past year, the University of Toronto was represented by 21 student delegates who had the opportunity to travel to Vancouver, B.C. for the conference. Our delegates participated in and excelled at the student competitions, with 2 of our students, Mackenzie Gole and Kelly Yin, winning first and third place, respectively, in the Robert G. Auld Technical Paper Competition. Beyond the student competitions, our delegates took part in workshops and used the Conference as a platform to engage and network with other engineering students from across Canada and industry professionals from diverse backgrounds.

Student delegates at the CCEC Conference

The executive team was able to return to in-person team socials this year. We played fun board games, shared delicious food, and held riveting conversations to develop an excellent team culture. Through these relationships, we have strengthened the CSChE community that has been incredibly supportive and welcoming towards all students.

Every year during Valentine's Day, it is tradition for CSChE to make and sell candy grams to the students. Committee members hand-wrote the Valentine cards and attached Hershey's chocolate, chocolate hearts, and caramels to each one. The candy grams were distributed to students during class hours. This year, CSChE was able to sell more than 160 candy grams to students in all years of study.

Canadian Society for Civil Engineering (CSCE)

Total Funding Awarded	**$1,450**
CivMin	$1,000
DO / EAN	$350
YNCN	$100

The Canadian Society for Civil Engineering - University of Toronto (CSCE UofT) Chapter strives to build connections between civil engineering undergraduate students and their potential futures in both industry and academia. This is achieved by providing opportunities for students to learn about the current state of the civil engineering industry, the various avenues for students who are interested in research, and the potential paths of graduate education. CSCE aims to bring a holistic view of the potential futures available to civil engineering students, so that our colleagues are better equipped to make well-informed decisions about their futures. We also aim to demonstrate to undergraduate civil engineering students the importance of professionalism, philanthropy, and mentorship in their careers and to the lives of others. Building these values is important to their careers as future professionals serving the public.

This year was incredibly successful and special, since this was our first year fully in-person post-COVID. CSCE UofT hosted many valuable events for the Civil Engineering student community at UofT.

CSCE UofT's mission has been to provide UofT civil engineering students with resources, tools, and programs to aid them in their journey of professional development towards becoming successful civil engineers. As part of our mission, we started the CSCE Industry Mentorship Program. The goal of the program was to connect UofT Civil Engineering students to industry professionals to form and foster effective mentor-mentee relationships from which students can gain valuable insight into the real-world application of the different subfields of civil engineering. As part of the program, mentees were paired up with industry professionals (mentors), who they can then reach out to regarding career advice and how to progress in their path of becoming a successful civil engineer. The program highly emphasizes the importance of networking and provides mentees with opportunities to increase their professional network and learn how to communicate in the professional world.

Industry Networking Program

As part of the program, our CSCE mentorship team coordinated and facilitated monthly touchpoints between mentors and mentees in the program. As part of this year, we had 21 industry professionals in various different sub disciplines within civil engineering (Building

Science, Construction management, Structural Engineering, Transportation Engineering, etc.) participate in the program as mentors, assigned to over 40 mentees. The mentorship program also provided some students registered as mentees in the program with an opportunity to complete their Professional Experience Year (PEY) program through their mentor (directly or referral to another company). Therefore, the program was vastly successful thanks to our mentees, and especially our mentors, who took the time to educate our mentees and become successful future civil engineers.

To thank our mentors for their countless hours of spent helping their mentees, CPSIF funding helped us provide our 20 mentors with $25 gift cards, for a total of $500. The CSCE Industry Mentorship Program was a huge success for both mentors and mentees. With continued CPSIF funding, such programs can continue in the future.

Pre-Covid, it was CSCE UofT's practice to host a dinner inviting all undergraduate civil engineering students and industry professionals to a networking night, where they can enjoy food and refreshments, while also making important networking connections. Rekindling this practice, CSCE UofT hosted a joint event with the Canadian Electrical Contractors Association - University of Toronto Chapter (CECA UofT). This event was a great success, as we had a lot of students as well as industry attendees (over 40!). This would not have been possible without CPSIF, since it cost us around $650 for arranging the food, refreshments and taking care of the event logistics. We are looking forward to running this event at an even larger scale year after year, and will be grateful to CPSIF for their continued support.

In civil engineering, it's important to keep public welfare in mind when we are working. Similarly, our executives acknowledged the tough circumstances that many Torontonians face. Our team is always looking for ways to serve the public.

The event aimed to provide a means of giving back to the community as a collective group. CSCE ran a counter offering baked goods (cakes, pastries, cupcakes, etc.) for donations towards Bridges to Prosperity. We are proud to announce that our sales (about $175) combined with CSCE UofT's contribution resulted in raising $250 for the charity's noble cause of ending poverty due to rural isolation through building bridges. This noble partaking would not have been possible without CPSIF's contributions, which enabled us to run the event and raise money for a great cause.

CSCE made it its mission to continue to deliver quality and informative experiences to as many members of the civil engineering undergraduate community as possible. Through the aforementioned events and programs, and the several others which when unmentioned, CSCE did succeed in its mission, and in some cases made a bigger impact on the community than has been seen in previous years. None of this would have been possible without the support of the engineering community via CPSIF. The Canadian Society for Civil Engineering (CSCE) University of Toronto Chapter looks forward to many future years of success, thanks to the continued support of it and clubs like it through the CPSIF program.

Chemical Engineering Graduate Students' Association

Total Funding Awarded	**$3,000**
ChemE	$3,000

This year, CEGSA helped build the chemical engineering graduate community, and contributed to the graduate engineering community.

This 2022-2023 year was a productive time for CEGSA, with numerous social events, holiday-themed lunches, and academic events successfully hosted throughout the year. Two of our more popular social events were two Pub Nights, following a CEGSA-led department and campus orientation, and the other a Halloween Pub Night. These events were crucial for new students to feel welcome to the department, where they can start to build important social connections that enrich the graduate experience.

More recently, CEGSA members organized a trip to visit the nuclear reactor facility at McMaster University, Hamilton, ON. One of CEGSA's goals is to broaden horizons for its members, and an industry-tour allows students to see first-hand a local factory or plant.

Nuclear Plant Tour at McMaster University, Hamilton

(From left: Masum Billah, Goutham Rangarajan, Steven Diao, Runlin Yuan, Ayesha Patnaik, Kevin Marrs)

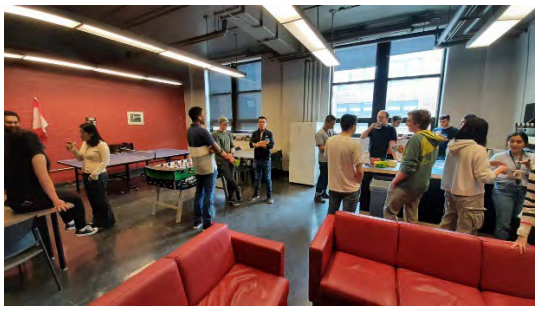
The chemical engineering graduate annual ping-pong tournament is a tradition in the department that was re-started the 2022-2023 year. The competitive element of the tournament brought graduate students together with a shared interest, and allowed students to form new connections. A pizza party was hosted by CEGSA to celebrate the final.

Annual Ping-Pong tournament

(From left: Noel Devaere (President of CEGSA), Ramin Farnood (Chair of Chemical Engineering & Applied Chemistry), Karan Kapur (Winner of Ping-Pong Tournament))

CEGSA hosted several themed lunches open to graduate students, faculty, and staff of the department. These include Thanksgiving, Winter Holiday, Lunar New Year, and Persian New Year. These lunches are a important social setting to build the graduate community and a space for students to celebrate important cultural dates.

Another ongoing CEGSA tradition is our Fika Friday, a weekly coffee and treat time, hosted every Friday at 2:30 pm. CEGSA's very own Fika directors bake home-made goods that make their way over to the chemical engineering graduate common room, where they are enjoyed with freshly brewed coffee and tea, open to graduate students, faculty and staff. This weekly is important for community building and stress relief, which enrich the graduate student experience.



Fika Friday

In addition, the Grad Gala, a semi-formal dinner and dance open to graduate students across the faculty of engineering, was held on May 19, 2023 and hosted Graduate Engineering Council of Students (GECoS).CEGSA did its part by helping plan and fund the event. These events help graduate students commemorate a year of hard work in research, courses, and TAships.

This year CEGSA was pleased to host an Alumni Panel and Networking event. Alumni panel shared their day-to-day activities of their new industry roles, their experience in the job-hunting process as recent graduate students, and general advice to graduate students.

Alumni guests:

a. Laura Smith
b. Peter Murphy
c. Nadia Morson
d. Amir Esmaeili

Again, with your generous support, CEGSA was able to give our graduate students valuable opportunities to build the chemical engineering graduate community, continue our ongoing mentorship program, provide academic events and make alumni connections.

Grad Gala

Civ Club

Total Funding Awarded	**$4,700**
CivMin	$4,000
DO / EAN	$050
YNCN	$200

The funding provided to our Civil Engineering Club through the Centralized Process for Student Initiative Fund played a crucial role in enhancing our club's impact and achieving our goals. Our club's ability to organize and execute various events and initiatives was greatly dependent on this funding. Here's how the funding was important to our club, along with details of the sources of funding:

Enhancing Community Spirit: One of our primary goals was to foster a sense of community and camaraderie within the civil engineering student body. To achieve this, we organized several events, including Halloween socials, Christmas socials, and pub nights throughout the academic year. The funding allowed us to provide food, movies, hot chocolate, and create a welcoming environment for students to socialize and connect. The funding sources for these events included allocations from the Centralized Process for Student Initiative Fund.

Christmas Social

Valentine's Day Candy Grams: To celebrate Valentine's Day and spread positivity, we organized the sale of candy grams within the civil engineering community. The funding from the Centralized Process for Student Initiative Fund helped us purchase the necessary supplies and candies for this event.

Dinner Dance: Our most significant event of the year was the Dinner Dance, which hosted a large number of attendees, including professors and alumni. This event required substantial financial support, especially for venue expenses and transportation. Thanks to the funding, we were able to secure buses to transport attendees to the venue, ensuring a safe and enjoyable experience for all participants.

Mental Wellness Initiatives: The funding also enabled us to prioritize mental wellness within the civil engineering community. We organized yoga and meditation sessions, along with therapy dog visits, to help students manage their stress and improve their overall well-being.

Academic Engagement: For academic engagement, we hosted Civ100 sessions to introduce first-year students to the Civil Engineering Club and create awareness about the opportunities available within our club. The funding supported the materials and resources needed for these sessions.

Mentorship Programs: Our mentorship program was another critical aspect of our club's activities. We paired students and organized various events to help them transition into university life successfully. The funding played a vital role in facilitating these mentorship events

Our Civil Engineering Club actively engaged alumni in various capacities throughout the year. Notably, our annual Dinner Dance, attended by around 200 people, including professors and alumni, provided a prime opportunity for alumni participation. We also hosted pub nights twice a year, inviting alumni to join us for informal networking and socializing. In addition, alumni were integral to our mentorship programs, guiding current students in their academic and professional journeys.

Civil and Mineral Graduate Student Association (CivMinGSA)

Total Funding Awarded	**$1,000**
CivMin	$1,000

During the academic year 2022-2023, CivMinGSA received financial support from the Department of Civil and Mineral Engineering in the form of CPSIF. The club is incredibly grateful for this funding as it allowed us to carry forth numerous initiatives for students within the community.

Being the central representative of the graduate students within the department, our club aims to provide students with both academic and social events to promote and maintain our ever-growing community. This year, our goals were achieved by hosting all In-person events as things got back to normal post pandemic. This letter highlights how the club used this funding to promote such initiatives.

This year, the CivMinGSA started with a bang by hosting the Pub-Night. Students were able to network and meet the new CivMinGSA team. The event turned out to be an immense success as there was a really good turn out by the students. The funding helped with arranging for a wide variety of appetisers and food for the night.

The main objective of the event was to provide graduate students with an opportunity to network with industry professionals and ask questions about the field of civil engineering. The event also aimed to give students insights into the lead companies in the field and provide them with information on how to enter the industry as graduate students. The event differed from typical job fairs as its goal was not solely focused on job placement.

CivMinGSA holds Coffee Break events frequently throughout the academic year to give students an opportunity to get away from their studies and gather in a relaxed and casual atmosphere. These events are a fantastic way for students to take a break from their academic responsibilities, recharge, and connect with their peers. The Coffee Break events are designed to promote a sense of community and support among students, and we encourage all graduate students to attend these events and take advantage of this opportunity to socialize and network.

Coffee Break

CivMinGSA also organized a foosball competition, which was held on April 20th. The event was a stress-reliever for students towards the end of the semester and aimed to provide them with an opportunity to take a break from their academic workload. Around 15 people signed up for the competition, and we provided them with free pizza, snacks, and drinks throughout the event. The competition was heated, and the participants showed great

sportsmanship. We awarded Amazon gift cards to the winners.

Foosball Tournament

Overall, the CivMinGSA aims to provide a positive and collaborative environment for graduate students. Our club provides them with an avenue to share their university experience with fellow peers in a social, academic and professional way throughout the year. Part of the funding was used to organize Industry Night, which engages graduate students with past alumni, working professionals and future employers.

Industry Night

Overall, the event achieved its objective of providing graduate students with valuable insights into the civil engineering field. Funding was put towards arranging food and drinks for the night. Additionally towards the thank you packages for the company representatives which included Amazon gift cards and other goodies.

On behalf of the CivMinGSA team, we would like to express our gratitude to the departments and organizations associated with the Faculty of Applied Science and Engineering (FASE) for their financial support this past academic year.

Cloud Club

Total Funding Awarded	**$850**
DO / ECE	$250
EngSci	$500
EngSoc	$100

Funding used for buying web services and cloud credits from cloud service providers, hosting websites, applications and databases, paying for domain names and club get-togethers.

CloudClub is an innovative club on campus that aims to leverage the power of cloud technologies and software development. Over the past year, many students have engaged in the club's ventures to develop websites, applications, and games to gain new skills and seek leadership opportunities. Project leaders have spent a considerable amount of time with members to work on games, websites and to provide training on new technologies. Members of the club's AI/ML team have become more adept at python and the intuition of the processes behind modern machine learning, such as optimization algorithms and neural networks. CloudAI, the AI/ML division of CloudClub, fosters a spirit of team building, initiative, and self-challenge in the new and vibrant field of artificial intelligence through projects with a very real, tangible result that can be easily demonstrated.

The initiative has proven beneficial to members because it has helped them work in a team on projects that they like. CPSIF funding allows us to host our games and websites on servers and allow those who visit our website to look at students' hard work. Software development is quite challenging and by sustaining this effort we hope to give students the experience of working in a team setting and practicing their engineering knowledge. Since we started, multiple students have reached out to learn about web development, game development and learning algorithms to complement what they know from class.

This has positively impacted the Skule community in its own way because students come together to learn new languages and make new friends. Members of CloudClub Game have learned the fundamentals of JavaScript, PHP, and C# along with working in the Unity, Phaser, and Laravel frameworks. Throughout the development lifecycle, members have learned to work using the agile methodology, and other key software industry practices.

The team has successfully developed and deployed two games, a Mario like platformer, and a rogue like dungeon crawler, and are currently working on a action RPG survival game. The games are being hosted as a web service and can be accessed from the club website.

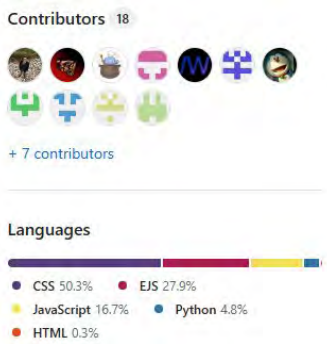
Furthermore, the website team has built the club website and added multiple features such as forums, publicly accessible APIs, and profile pages. A significant amount of time has been spent on front-end development to make the website appealing and organized. Recently, the

club has taken on new members who are interested in building robust systems that are well tested. An initiative has been started to make the codebase more readable, organized, and conform to standards and best practices.

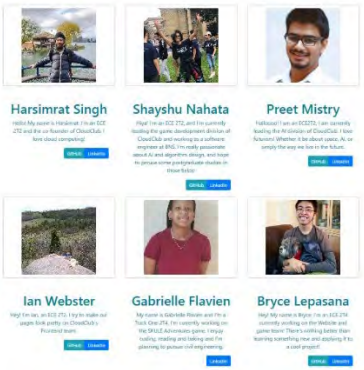
New members have come and added code, built their profiles, contributed to meetings and participated in engineering analysis work. Our club's highest achievement is the chance to mentor students and provide them with technical and leadership skills. As the graduating students move forward, the light of CloudClub is being passed to dedicated individuals who will attract new members, innovate on new ideas and continue to harness the power of cloud computing.

We have not yet been able to find alumni who may be interested in supporting our endeavors. However, there is significant potential for mentorship and guidance from industry professionals and alumni alike to provide workshops, networking events and guidance on projects. Professor Johnathan Rose is our Faculty Advisor, and as the students return back to campus in the fall there is potential to bring in alumni.

As the club matures and we attract new members, the vision for the club is to become the most innovative club on campus. The goal is to provide students the opportunity to build something that will be useful to everyone in the Skule community and beyond. There is no better way to practice our engineering skills and ethics other than by building a system together.



Club's Contributors on GitHub



Clubs' members and contributors for the year 2022-2023

Club for Undergraduate Biomedical Engineering

Total Funding Awarded	**$7,300**
BME	$3,000
ChemE	$100
DO / EAN	$1,000
ECE	$700
EngSci	$1,000
EngSoc	$750
MIE	$500
MSE	$50
YNCN	$200

In the 2022 – 2023 academic year, CUBE hosted over 15 events in the Skule community to introduce and promote biomedical engineering at the undergraduate level. This year, CUBE hosted a broad range of networking events, information sessions, and wet and dry lab workshops for students to gain practical skills in biomedical research and design. We also organized a mentorship program involving alumni and introduced a volunteer team to help out at our events. Without the pandemic constrictions this year, we were able to organize more events open to more new members across various disciplines to promote biomedical engineering at the undergraduate level.

One of our most successful annual events this year was CUBE's Annual General Meeting, which serves to introduce our club, executives, events planned for the following academic year and ways general members can be involved with our club. Through this event, our general members were able to connect with executives and ask any questions they may have, and we were able to provide an attractive debrief on our planned future events to give our general members a basic understanding of interesting activities they can participate in our club. This year, we were able to gather much more undergraduate students to our meetings and we have received lots of great questions and feedback from those who might be interested in joining our events.

Annual General Meeting

Another successful event was our annual design competition, the 14th Biomedical Engineering Competition (BMEC). BMEC is a two-and-a-half-day event, we provided our participants with a storyline centred around the topic of wound healing and challenged them to identify a

problem and propose an engineering solution. The first day usually comprises activities like the opening ceremony and ice-breakers (ideas sought from past years' BMEC). The final day is usually judging and presentation. In addition, we have organized some workshops and seminar series during BMEC to enrich participants' experience and allow them to take a semi-dive into a specific aspect of biomedical engineering. The competition was attended by over 50 competitors (in teams of 4-5) from various engineering schools and disciplines. We were able to provide three meals worth of food and refreshments to judges and participants, as well as gifts for judges who took time on a weekend to engage with and mentor our participants. The funding was also used for room bookings, AV fees, and prizes of $750, $300, and $200 awarded to the top three winning teams.

Lab Skills Work

2023 Biomedical Engineering Competition

This year, CUBE continued to offer hands-on Lab Skills Workshops in collaboration with the IBBME Undergraduate Teaching laboratory, introducing more workshops than ever before, with the addition of the Suturing Workshop. The workshops (five in total) were attended at full capacity, providing 50+ students were given an opportunity to improve their professional skills through gaining lab experience. Funding received allowed CUBE to express gratitude to the teaching laboratory coordinator for supporting the increased interest of students and fewer pandemic limitations.

Electrical and Computer Engineering Club (ECE Club)

Total Funding Awarded	**$5,000**
DO / EAN	$5,000

The Electrical and Computer Engineering Club is a student government organization and discipline club run by and for ECE students in Skule. This year, we received $5,000 from the Engineering Society through the CPSIF process. Our funding went towards our (returned) annual ECE Dinner Dance as well as the ECE Iron Ring Party. Both were large events for ECE students to celebrate the return of in-person activities, destress and socialize.

The funding allowed us to lower ticket prices for our Dinner Dance, which was crucial as venue prices skyrocketed post-COVID. It also enabled us to host an Iron Ring party free of charge for our graduating students after receiving their Iron Rings. Both events had a significant impact on the ECE Community, as the Dinner Dance is a highly anticipated event this year as we move forward with more in-person activities. At the Dinner Dance, we invited the Skule Stage Band, Godiva's Crown, one of the Ultimate Frosh, and multiple ECE professors, further bolstering our commitment to helping ECE students engage in Skule spirit.

We've also held several smaller events throughout the year, amassing a sizable turnout at each event. These events were funded partially through CPSIF funds, and they include movie nights, games nights, technical workshops (e.g. for GitHub), and events between mentors and mentees in the ECE Club's Mentorship program. Each of these activities helped us to foster community building within the ECE student body, and helped them to destress during the school year.

Finally, some CPSIF funding was used to renovate the ECE Common Room (BA1120) and ECE Study Hall (SFB650). The funds helped us to purchase a brand new microwave and ping pong table, as well as more pool, foosball, and ping pong equipment for our students. These additions saw the ECE Common Room get a massive boost in usage, further helping us organically form a vibrant student community within ECE.

Our organization has interacted with alumni in two primary ways: the ECE Dinner Dance held on Friday, February 17th, 2023 and ECE Student-Staff Meetings. During the Dinner Dance, alumni were invited to celebrate SKULE spirit with both current students and professors. During student staff meetings hosted throughout the year, alumni, professors, students, and club members discussed current student concerns and club plans to better student life. Additionally, club executives attended alumni mixer events including the ECE Amplifier event hosted by Deepa Kundur on January 31, 2023. Their attendance had the intention of presenting club initiatives and developing alumni relations.

Alumni guests:

a. Tina Tahmoureszadeh
b. Arina Colo
c. Karina Sidhu
d. Shutha Pulendran

Through alumni interaction, ECE Club obtained an alumni donation to renovate part of the SF Basement for a brand new ECE Common Room.

Open Mic Night: Joshua Francis

Game Night

ECE Dinner Dance

ECE Dinner Dance

(From Left: Baochun Li, Elvino Sousa, Ravi Adve, Margaret Chapman and +1)

Engineering Science Discipline Club

Total Funding Awarded	**$10,025**
BME	$600
DO / EAN	$2,500
EngSci	$6,725
YNCN	$200

On behalf of the Engineering Science Discipline Club, we would like to express our deepest gratitude for your generous financial contributions of $10,025 to our club's activities this year. We received financial support from the Division of Engineering Science, the Engineering Alumni Association, You're Next Career Network, and the Institute of Biomaterials & Biomedical Engineering. Through the generous support of the departments and organizations associated with the Faculty of Applied Science & Engineering, our team was able to work to reintegrate into the in-person EngSci community which allowed us to pilot many new initiatives to build a meaningful and positive sense of community among EngSci students.

Throughout the year, our team ran over 20 different events, with some events seeing over 80 attendees. Starting last summer, our program's common room was again open to students as a space to both study and socialize. The first event our team ran was a Common Room Reopening Event during the summer of 2022. We saw over 80 students in attendance and had mass participation in our games and common room scavenger hunt. The event offered a valuable chance for younger students to orient themselves with a common room they had never seen and also offered upper-year students the chance to reconnect both with each other and with the physical space. We also worked to incorporate the incoming class into our community by hosting a very well-attended Meet EngSci Club evening myth-busting panel during F!rosh Week.

Throughout the year, EngSci Club was a central group running both fun socials for students and also running important mixers for different marginalized student groups. We ran monthly fun events, including but not limited to a trip to Center Island, a Capture the Flag game against Chem Club, a, a Halloween Social, a Board Game Cafe Social, a World Cup Viewing Party and an End of Year Party. In addition to these fun events that were open to all students, we also hosted an incredibly successful Iron Ring party for the graduating cohort of EngSci students. The party, which was hosted at Bampot Teahouse, was incredibly well-received, with a lot of the positive feedback centered around how inclusive the venue was to students with all different interest types. We had students playing cards, playing board games, dancing, and chatting at the party and it was an incredible way for the graduating class to commemorate their successes together.

Iron Ring Party

Additionally, this year our team reintroduced locker rentals in the common room for the semester. With this initiative, we also prioritized offering these lockers to commuter students and first-year students. As we expanded our team this year, we hired directors who were responsible for ensuring international students, commuter students, mental wellness and equity concerns were well represented. With these roles, we also hosted welcome events for all different types of students—we had an international student mixer that saw 15 attendees and a commuter student mixer that saw 35 attendees. Most notably, we hosted a Women in EngSci event during both the Fall and the Winter semesters and even found an opportunity to include women-identifying professors and staff in solidarity.

Recognizing that the community hadn't been back primarily in-person for a few years, our team also worked incredibly hard to create memorable merch that students could purchase to build community. We peer-sourced designs and even went through the trouble of allowing students to select the colour of each shirt or sweater personally. The interest in merch was incredibly indicative of students' desire to reconnect. This excitement within the community was also reflected at our dinner dance this year, where we had 430 attendees, the highest number in many years. We also brought back Nocturne, an evening showcase of EngSci student talent, co-MCed by Professor Jim Davis and an EngSci student. Held in Hart House, the room was packed and featured talents from dance to singing and musical performance. Our team feels we were incredibly successful in building community this year, and while we did not find opportunities to include alumni in our events, we hope this can be done in the future!

These accomplishments are only a glimpse of the incredible impact your financial support has had on the lives of EngSci students. At the start of our term, we put out a feedback form to see what improvements students were looking for within EngSci Club. The average rating that respondents (n = 158) gave EngSci Club was 5.8/10. At the end of our term, we recirculated this survey and saw the average rating of EngSci Club increased to 6.5/10 (n = 118). Clearly, you have supported the growth of many future student leaders within our team and allowed us to leave a lasting impact.

Engineers In Action (EIA)

Total Funding Awarded	**$3,100**
CivMin	$1,000
DO / EAN	$500
EngSci	$1,000
MIE	$300
YNCN	$300

This year, Engineers in Action University of Toronto Student Chapter (EIA UofT) received a total of $3100 from the funding areas described in Table 1, through the Centralized Process of Student Initiative Funding (CPSIF). This was used to fund the construction of our latest bridge project in Bolivia, as well as for campus events such as a bridge design case competition, and an industry panel and networking session.

EIA UofT is a club that mainly focuses on designing, funding, and building pedestrian footbridges in developing communities, to improve their access to healthcare, education, and economic opportunities. As such, most of the funds raised by our club go towards our yearly bridge project, which in 2023 is located in Tiraque, Bolivia, over the Suraj Mayu. CPSIF funds are used to procure building materials and to hire local masons to aid the student team that travels to the site over the summer to build the bridge.

Makeshift Bridge Used by the Community of Tiraque, Bolivia to Cross the Suraj Mayu River

Since the design of the bridge is completed entirely by students, students gain invaluable technical knowledge on structural design and project management. Throughout the semester, students must compile a Concept Definition Report, Detailed Design Report, and Construction and Safety Report for approval by the Engineers in Action parent organization and professional engineers at Arup. To complete the Design Report, students must conduct detailed calculations of the mainstay and backstay forces of load-bearing cables, the restorative moment of the bridge towers, the bearing pressure of foundations, and the sliding forces of the gravity anchor, among many other things. Meanwhile, for the Construction and Safety Report, students must compile a bill of quantities and determine the total project cost, create a construction schedule, and create safety plans and protocols for construction on site.

This year, two students will be travelling to the site, where they will act as the project manager and construction manager for the project. The project manager will be in charge of communicating complications on-site with supervisors, while the construction manager will coordinate the distribution of tasks on-site, ensure construction remains on schedule,

receive material deliveries, and track the amount of material used each day on site. The students are travelling alongside six other students from the University of Alberta and will finish construction in mid-June. The bridge will serve 950 people.

Inauguration of Bridge Construction Over the Suraj Mayu River

Although students experience the greatest opportunities for learning as members of EIA UofT, our club also engages students outside of the club through networking sessions and a case competition. In October, our team hosted a bridge design case competition, where students were tasked with creating a preliminary design of a bridge. Members of our EIA UofT team led workshops on bridge design calculations and how to use AutoCAD, so that participating students could successfully create a preliminary design. For this event, CPSIF funding was used to pay for gift card prizes for the winning team. We also hosted a networking industry panel with the UofT Canadian Society for Civil Engineers (CSCE) on February 6, where students could ask questions and network with six speakers –five of which were alumni, from different parts of the engineering industry. For this event, CPSIF funding was used to pay for gifts for the alumni panelists and food for event attendees.

Networking Industry Panel Speakers

Overall, CPSIF funding has allowed EIA UofT to host a bridge design case competition in which students learned how to use AutoCAD and how to generate a preliminary bridge design, as well as an industry panel in which engineering students could learn about different career paths from experienced alumni. These granted students the opportunity to develop technical design skills outside of the classroom as well as to expand their networks and engage with alumni, to project their lives after graduation. However, most CPSIF funding went towards the procurement of materials and masons for the construction of our bridge project in Bolivia. By providing funding for this project, CPSIF allows students of all engineering disciplines to meaningfully apply their academic training under challenging conditions, taking on key roles in the design and construction of pedestrian footbridge projects. Our club's framework guides students through a year-long process modelled after engineering industry projects. Students work through the engineering, material and cost estimates,

construction scheduling, and risk mitigation plans under the supervision of a robust mentor network. After which they can travel over the summer to live and work alongside the community during construction. This combination of design-build experience and cross-cultural exchange creates an opportunity not found in most engineering curriculums. Beyond gaining skills in technical design and project management, students learn teamwork, leadership, and cross-cultural competency. They grow into better leaders, collaborators, communicators, empathizers, adaptors, and problem-solvers.

Club Social and Cultural Learning Session

Engineers Without Borders Canada, University of Toronto Chapter

Total Funding Awarded	**$6,650**
BME	$1,000
ChemE	$250
CivMin	$300
DO / EAN	$1,500
ECE	$500
EngSci	$450
MIE	$2,500
MSE	$50
YNCN	$100

We, the Engineers Without Borders Canada, University of Toronto Chapter (EWB U of T), have had the privilege of receiving $6,650 for the 2022-2023 academic year through the Centralized Process for Student Initiative Funding. Through this generous support, our chapter was able to contribute to significant impact on campus, in Toronto, and globally, supporting a grassroots movement among the 27 university and professional EWB chapters across Canada.

Throughout the year, our chapter facilitated learning on topics ranging from indigenous reconciliation to food insecurity, collaborating with faculty at U of T and the community of the Greater Toronto Area. Our Indigenous Reconciliation (IR) portfolio hosted weekly learning sessions and a National Truth and Reconciliation event to explore the impact of residential schools. Our IR portfolio also ran a two-day Cultural Competency training to examine the history of the loss of the indigenous nations' culture and remediation of the current trajectory. Our Cyber Ethics and Digital Rights (CEDR) portfolio hosted a series of four cybertalk sessions that explored pressing issues in techno philosophy and artificial intelligence. Additionally, our Food Bank team hosted a Food for Thought series to educate students about food insecurity, food banks, and other systemic changes. To explore improving sustainability in engineering education, our Sustainability and Environmental Justice (SEJ) portfolio ran a learning session that included a hands-on plant growing activity.

In alignment with our chapter's core values, including *Asking Tough Questions*, our CEDR and Policy & Advocacy (PA) portfolios co-hosted a Moral Code hackathon, a unique competition that blended technical skills with philosophy, ethics, and law. In the broader community, our Youth Engagement (YE) portfolio engaged 65+ high school students both locally in-person and globally online to apply engineering design to social impact through our two semester-long programs, youth volunteer program, and professional development conference.

Our chapter prides ourselves on our vibrant and welcoming community, and we invite students

in the Skule™ and University of Toronto communities to join our various initiatives. We participate in F!rosh week, run chapter-wide Annual General Meetings, and host an EWBootcamp to teach new members about our portfolios and core values. We promote togetherness by running social events throughout the year, including wellness movie night, chapter socials, and game nights.

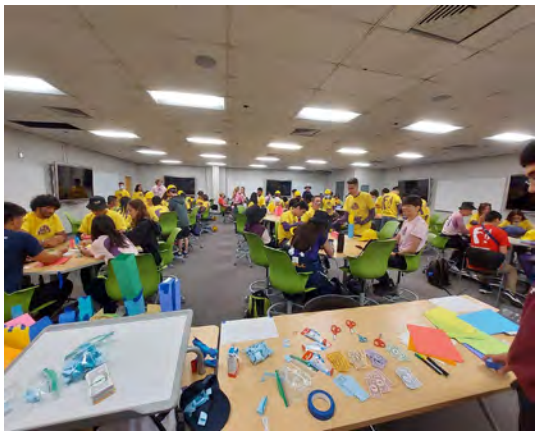
In addition to collaborating with U of T organizations, EWB U of T has continued working with several reputable non-profit organizations in Toronto. Over the past year, our Local Poverty Alleviation (LPA) portfolio carried on a Transit Accessibility Project with the City of Toronto and the Toronto Transit Commission to advocate free public transportation for youth experiencing homelessness. Our Emergency Food Bank has collaborated with organizations, including FoodShare Toronto and TrekforTeens, to provide fresh produce to students in need. Our team is also cultivating a community garden in collaboration with Hart House. In all these projects, students reached outside of the Chapter to engage with academics, non-profit organizations, and governments.

In January 2023, this generous funding was also used to hold EWB U of T's annual Student Leadership Summit, a student-run, three-day conference that emphasized leadership, community building, and citizenship. Social impact leaders from U of T and Carleton University were united in a series of student-led learning sessions, alongside recreational outdoor activities. The summit included an open discussion around facing failures and a workshop about social enterprise.

Our chapter has had the pleasure of collaborating with several U of T alumni and incoming alumni this year. Our collaborators included Lucinda Qu, Micah Kalisch, and Natalie Enriquez-Birch for a workshop on sensitivity when working with vulnerable communities (August 2022). Other engaged alumni included Christian Pavlidis and Wenxi Liao as guests for the EWBeyond high school program (April 2023).

Please know that your support for our organization has made it possible for us to continue our work in creating positive social impact. You are not just supporting a student club, you are supporting a movement.

EWB U of T's chapter retreat.



F!Week 2T2.

Community Art Social

(From left: Anusha Shekhar, Prianka Murthy, and Tharaka Sivasabesan)

Student Leadership Summit 2023.

"Pie-a-Prof" event held to fundraise for Qajuqturvik Community Food Centre.

Innomasters, a mentorship initiative that introduces engineering design concepts to budding high school students.

Future-Living Lab

Total Funding Awarded	**$974**
CivMin	$200
DO / EAN	$300
EngSci	$150
EngSoc	$324

Future-Living Lab (FLL) received funding through the Centralized Process for Student Initiative Funding (CPSIF) which facilitated club activities that enhanced both our member's education in environmentally sustainable design and connections with professors, alumni, and industry professionals. We had an increased amount of in person activities and club engagement opportunities in comparison to the past years (due to Covid-19), so funding was greatly appreciated.

The first event our club had for this academic school year was the Clubs Fair for both Daniels and the faculty of Engineering. We were able to print pamphlets and purchase stickers as promotional material to give to interested students.

We also had 2 design competitions that we took part in this year, the Miami Floating House (MFH) competition as well as the Evolo Skyscraper competition. We had 2+ sub-teams per competition consisting of 4-5 general members. This allowed for each member to take on greater responsibility and accountability within their team, as well as have a greater opportunity for each of them to develop their leadership skills. Funding helped us pay for the entrance fees for each group per competition as well as model making material for our submissions.

Our Garage Build project also incurred some expenses. These consisted of coffee and muffins for breaks, and gas for carpooling to and from the building site. It was really exciting to finally have one of the projects transition into the construction phase and be brought to completion after COVID-19 put a pause on this part of our club.

We hosted our annual Speaker's Night in person this year which was an extremely successful event. We partnered with the Daniel's Architecture and Visual Studies Student Union (AVSSU) to execute this event. This was extremely helpful as they were not only able to contribute financially to hosting the event but also extend our outreach to students and industry professionals. We provided refreshments including drinks and snacks for all attendees and presenters. The event was a great opportunity for students to learn about current research in sustainable building, and make connections with professors and

industry professionals. Funding also allowed us to give small thank you cards and gifts to our speakers who graciously gave their time.

Our club requires certain maintenance fees such as for our SquareSpace website and our Google Drive storage, which holds club material for current and previous years.

All leftover funding will be brought forward for this summer and the upcoming 2023-2024 academic year for the longevity of the club. As one of few U of T clubs focused on sustainable design-build projects, we are especially looking forward to putting it towards transportation, materials and tools to materialize the projects in their construction phase. One of our current and upcoming projects that particularly enhances and engages the U of T community are the renovations to the existing U of T Outdoors Cabin in Collingwood. We are expecting to begin the build process in Summer 2023 which leads our club in a great direction.

There were two events this year that facilitated alumni engagement. The first was our Professional Development Panel, during which previous members from the club spoke to and answered questions about their paths after graduation, whether that be going on to attend graduate school or working in their respective fields. We invited alumni from architecture, engineering and planning disciplines to increase the diversity of speakers and target a broad audience. We received a lot of feedback from attendees that they really enjoyed this event, and it was really nice to connect with those who previously participated in the club. The second was our Annual Speaker's Night. Alumni, especially those who are now working in the industry, attended the event, and engaged in discussion with our speakers and club members regarding sustainable design.

Steffany Lung (Co-President) and Raymond Li (Engineering Lead) working on the Garage Build project.

Christy-Anna Chung (Co-President) and Young-Hoon Cho (Marketing, Events and Communications Lead) working on the Garage Build project.

Global Spark

Total Funding Awarded	**$1,375**
BME	$150
ChemE	$125
CivMin	$50
DO / EAN	$500
EngSci	$200
MIE	$150
MSE	$50
YNCN	$150

The funding CIPSIF supported Global Spark with this year enabled us deliver the 5th annual Hack the Globe (HTG), our annual multidisciplinary social impact hackathon which inspired ~250 students from around the world, including ~30 current members of the SKULE community, to apply their skills towards solving the most pressing global challenges.

The generous support of CIPSIF enabled us to host the first ever hybrid rendition of HTG and activities in the first ever non-Toronto in-person location, London. The event ran between March 4th to 19th and saw undergraduate and masters students from across 50 universities and 25 countries come together to develop a tech-based solution to 3 social impact problem areas: sustainability, humanitarian response, and economic empowerment. The event impacted ~250 students, with ~100 in-in-person participants in Toronto, ~50 in-person participants in London, and ~100 virtual participants.

Hack the Globe (HTG)

CIPSIF funding, alongside corporate sponsorship obtained by Global Spark, was applied to secure licenses for the technology platforms used for the hybrid event (MS Teams), facilitate subsidies for event volunteers to travel and run in-person activities, pay for prize plaques for winning teams, and support food for the 3 in-person event days.

Through enabling us to dream big with the event and bring HTG back in-person after 3 years online, CIPSIF funding had a deep impact on our organization's ability to carry out our mission and deliver another successful rendition of our flagship event. Members of the SKULE community and beyond got to spend 2 weekends in the Toronto and London offices of the Boston Consulting Group to ideate their solutions, taking advantage of the inspiring space. Participants also got to hear from a keynote speaker, Dr. Peter Singer, and received mentorship and feedback on their solutions from topic experts from our partner and sponsor organizations, which included Google, Microsoft, BCG, World Food Programme, Aga Khan Foundation, and more. As well, they got to learn about recruiting opportunities from the partner organizations to understand how they can pursue careers related to social impact and continue their passion even beyond the hackathon.

The winning team was selected by a panel of 5 multidisciplinary judges, and comprised of of 3 current SKULE students (Gerry Chan, Shaba Khan, and Wendy Zhao), who pitched a reusable bag sharing program called BagShare to reduce the unintended negative environmental impact of plastic bag bans.

Global Spark engaged SKULE alumni Chloe Shin-Gay, Catherine Glossop, Malik Ismail, and Morris Huang as Advisors for our activities throughout the entire academic year (September-April) on an ad-hoc basis.

SKULE alumni Ben Mucsi was deeply involved in the planning and execution of Hack the Globe throughout the entire academic year, as the Co-Executive Director of Global Spark.

Graduate Super Women Engineers (GradSWE)

Total funding awarded	**$4,600**
BME	$1,200
ChemE	$800
CivMinE	$500
DO / ECE	$750
MIE	$700
EngSci	$100
DO / EAN	$550

The vision of GradSWE is to build a supportive, inclusive, and diverse community that catalyzes change for self-identified women engineers and their allies by promoting equity, dialogue, and action at the University of Toronto and beyond. The mission of GradSWE is to support and contribute to the continuous professional development and success of women in engineering. The funding awarded to us was used in alignment with our vision and mission.

This year, we held a variety of events. We started the year in mid-September with a welcome and info session for new graduate students interested in joining our team and participating in our events. From then until May 2023, we hosted eight social events and five professional development events, with a few more mostly outdoor events planned for the summer. Below is a complete breakdown of our events:

Social events:

- Campus and Toronto Food Tour (October 1 and 2) - 20 participants
- GradSWE Canoeing (October 22) - 11 participants
- Coffee Chat (November 17) - 11 participants
- GradSWE x SWE Holiday Social (December 7) - 25 participants
- GradSWE Distillery District Holiday Market (December 20) - 6 participants
- GradSWE AGO (January 17) - 19 participants
- Coffee Chat (February 1) - 8 participants
- GradSWE Ice Skating (February 11) - 3 participants
- GradSWE Yoga (April 12) - 9 participants
- GradSWE Yoga (May 5) - 6 participants

GradSWE Canoeing

(From front: Christin Pohl, Vandana Prasad, Shreya Patki, Kelsey Smyth, Liz DaMaren, Harshitha Janakiraman, Dafni Giannari, Amal Al-saqqaf, Erica Floreani, Arnaud Deza, Samantha LeValley.)

Our social events aim to bring together engineering graduate students to foster a sense of community and provide a safe space for discussing the realities of graduate school.

Many of the participants in these events continue to engage with our group throughout the years. Funding for social events allows us to offer fun and active breaks for graduate students and allows them to build friendships, enriching the graduate student experience.

Coffee Chat (November 17) at the university.

(From left: Anne Mei, Gloria-Edith Boudreault-Morales, Sami LeValley, Guijin Li, Kelsey Smyth, Sharon Ferguson, Gabi Marega, Bonnie Chao, Liz DaMaren, Shreya Patki.)

Professional Development Events:

- Research Chat (November 24) - 17 participants
- Grad-Undergrad Panel Event (January 24) - 20 participants
- Panel Discussion on Graduate Studies and Mental Health; co-organized with GradMinds and QueerSphere (February 21) - 20 participants
- International Women's Day Event: Mini Conference on Science Communication (March 16) - 45 participants
- Research Chat (April 18) - 14 participants

Our professional development events aim to connect engineering graduate students with students of different seniority levels and professional women engineers to learn about life and career opportunities during and after graduate school. Through these events we achieve our mission of supporting and encouraging self-identifying women engineers to succeed and remain in the field. Due to the prohibitive costs often associated with bringing professionals into our events, CPSIF funding is invaluable in bringing this expertise to our members.

Research Chat at Prenup Pub.

(From left: Kelsey Smyth, Meghan Rothenbroker, Aliaa Gouda, Jennifer Gordon.

As GradSWE enters its fourth year as a club, it continues to learn which events are most beneficial and engaging for its members, which clubs to collaborate with, and which funding sources are available. Thanks to the generous funding from CPSIF, GradSWE was able to sustain past successful events, like our coffee and research chat sessions, and explore diverse types of events and partnerships. The events hosted by GradSWE aim to create a supportive and inclusive community for students to connect with peers and grow both personally and professionally. To further promote inclusivity, GradSWE does not charge participants to attend the large majority of the events.

This year, GradSWE also expanded its reach to include more alumni. Notably, *Amy Zhang (Master of Science in Biomedical Communications from UofT)*, and *Dr. Fiona Coll (PhD in Literature from UofT)* served as panelists and workshop facilitators for the International Women's Day Event: Mini Conference on Science Communication, while *Tanisha Sylvester (Master from UofT)* participated as a panelist in the Panel Discussion on Graduate Studies and Mental Health. Our Panel Discussion on Graduate Studies and Mental Health, as well as the Grad-Undergrad Panel Event had as panelists current UofT graduate students who are also alumni. Our yoga classes were taught by *current UofT PhD graduate Keshna Sood* and *UofT Master of Social Work graduate Lisa Malinowski*. We also frequently partner with SWE Toronto, working with UofT alumni *Elizabeth Maggs (MASc Chemical Engineering)* and *Winnie Zheng (BASc Civil Engineering)*. Moving forward, GradSWE intends to partner more closely with SWE Toronto and host professional networking events to continue engaging alumni and supporting women in engineering.

International Women's Day Event: *Mini Conference on Science Communication (March 16) at Myhal. Our biggest and most exciting event of the year with over 40 attendees. Panelists: Dr. Fiona Coll, Amy Zhang, Dr. Sarah Habibi. Facilitator: Liz DaMaren.*

Hide and Seek

Total Funding Awarded	**$340**
EngSoc	$340

This year, funding was used to purchase additional pool noodles which were used as tagging implements during games of hide and seek. Over the course of the year, the Hide and Seek club ran nine games of hide and seek, each of which averaged over 30 students per game, with more than 90 students coming to our largest game at the end of the year. Having the funding enabled us to purchase additional pool noodles as some of the previously purchased noodles reached the end of their useful lifespan. The funding was especially useful as our games became bigger; it would not have been possible to have had a game of hide and seek with over 90 players simultaneously without having been able to purchase the additional game equipment the CPSIF funding enabled!

Our funding has almost entirely been devoted to equipment for our games and for future ones, and it would not be possible to run games these games of hide and seek as effectively without having access to the equipment like bandanas and pool noodles we have purchased. These games of hide and seek have been a tremendous opportunity for the Skule community, as well as the wider U of T community to come to a social event to have fun and make friends in the process. I am excited for next year as we have spent a large portion of our budget on light-up LED bracelets which will enable us to run games such as capture the flag outdoors at night.

Unfortunately, we have had zero alumni come to any of our hide and seek games as far as we are aware. Hide and seek attracts a rather niche student audience, one which tends to enjoy exploration and silly fun. I would suggest that most alumni have better things to do after their busy work days, but if you have ideas on attracting alumni to come play hide and seek with us, we'd be all ears.

Hide and Seek games

Human Factors Interest Group (HFIG)

Total Funding Awarded	**$3,100**
DO / EAN	$1,000
MIE	$2,000
YNCN	$100

The Human Factors Interest Group (HFIG) is the University of Toronto's Human Factors and Ergonomics Society (HFES) student chapter. Our mission is to provide and promote opportunities for our membership and the broader community to learn more about the field of human factors, as well as network and share their research, work, and experiences with others interested in the field.

HFIG hosted the 22nd Annual Human Factors Engineering Inter-University Workshop (IUW 2022). IUW is a full-day workshop planned and hosted by HFIG on an alternating basis with the University of Waterloo and State University of New York at Buffalo's HFES student chapters. IUW 2022 featured 12 student and industry presenters, a distinguished keynote speaker, was sponsored by the Canadian Imperial Bank of Commerce (CIBC) and Healthcare Human Factors (HHF), and was attended (online and in person) and supported by 50+ graduate and undergraduate students, faculty, alumni, and industry professionals. IUW 2022 allowed attendees to network and present their projects and research in front of an audience. CPSIF funding assisted us in covering costs associated with food and refreshments, decorations, printing, and a gift for the event's keynote speaker.

HFIG also hosted a career panel on March 13th, 2023 featuring three panelists that represented the nuclear, healthcare, and tech industries. The HFIG 2023 Career Panel was attended by 16 students and was hosted to provide graduate and undergraduate students with an opportunity to learn more about careers in human factors from three industry professionals.

HFIG's vice-president, Nicole Hicks, opening the career panel

As the final event of the academic year, HFIG hosted a guest seminar in cybersecurity, with 10 attendees. The guest seminar provided an opportunity for attendees to learn more about careers in cybersecurity from an industry professional with several years of experience, as well as to network and socialize with one another.

Alumni attended each of the previously described events, with one also serving as a judge for the presentations at IUW 2022 and an additional two serving as panelists at the career panel.

Internationally Genetically Engineered Machine Toronto (iGEM Toronto)

Total Funding Awarded	**$6,300**
BME	$3,000
ChemE	$500
DO / EAN	$1,000
EngSci	$500
EngSoc	$1,000
YNCN	$300

iGEM Toronto has always been committed to fostering the development of undergraduate research initiatives through the participation of the annual iGEM Jamboree in Paris, France. Our team has represented the University of Toronto at this competition since 2007.

Our team's expenses can be divided into two broad categories (1) costs associated with participating in the iGEM competition, and (2) costs associated with project design and execution, which are dependent upon (1) being met.

Category (1) comprises the competition's registration fee and the costs of attending the competition. The team registration fee this year is $8000 CAD, which is partially supported by the funds generously awarded through CPSIF. Registering for this competition provides the team with a team wiki, associated materials (including the 2023 Distribution Kit) and support, one presentation slot at the Giant Jamboree, and one poster location at the Giant Jamboree. In other words, not only is this expense necessary for representing UofT at this competition, but it also provides our team with the materials to help kick start our project every year and a platform to share our research with students across the world.

Category (2) comprises the 4 different subteams' operating costs - Wet lab, Dry lab, Human Practice, and Hardware. They enable our team to develop and execute our project, to operate our laboratory, and to organize our outreach events. Larger financial resources allow us to tackle more innovative and ambitious research, and to engage a larger body of students in our work.

Engineering alumni/ graduate students served as valuable research advisors to iGEM Toronto. Throughout the 2022/23 school year, we worked with the following UofT alumni/ graduate students/ faculty members, their expertises were a great help to the success of our research:

Alumni guests:

a. Amy Yeung: iGEM Toronto financial management, research paper publications
b. Tianyu Lu: iGEM Toronto project management

Graduate Student guests:

a. Jennifer Doucet: Research supervision
b. Ethan Agena: iGEM Toronto Grand Jamboree presentation

c. Sandhya Mylabathula: Collaboration with Let's Talk Science to promote project awareness.

Faculty guests:

a. Dr. Keith Pardee: Research supervision
b. Dr. Marcus Dillon: Research advising
c. Dr. Yan Wang: Research advising
d. Gary Hoang: Lab supervision

iGEM Toronto attending a Synthetic Biology Conference

iGEM 2022 Grand Jamboree

(From left: Ally Cheung, Maggie Chen, Victoria Gao, Sean Yam)

iGEM Toronto research achievement

Industrial Engineering Club

Total Funding Awarded	**$7,000**
MIE	$7,000

Funding Usage:

MIE Dinner Dance: To foster a sense of camaraderie across these fields, the Mechanical Engineering Club and Industrial Engineering Club jointly sponsor the MIE Dinner Dance. The dance was attended by over 450 students and employees this past year and was the largest event produced by the clubs. It's an annual gathering of staff, alumni, and students from all years for a fun-filled evening of dancing, eating, and mingling.

Iron Ring Celebration: The Iron Ring Celebration is a ceremony held to honour the graduating class and to congratulate them on their accomplishments throughout the years and completion of their undergraduate studies. After the graduating class receives their Iron Rings, there is a celebration at a nearby restaurant. It is intended to bring their class together so they may reflect on all the fun times they have had together and talk about what their future employment might entail.

Indy Bash: The club has decided to have an Industrial Engineering-only event for the first time this year. The AGO Bistro played home to the Industrial Engineering students, alumni, and professors for the Indy Bash, where everyone was invited to share a drink, some appetizers, and some great artwork. This kind of gathering aimed to promote networking with professors, alumni, and students from all years of the subject. Over 100 people signed up for the new event, and the Industrial Engineering Club hopes this event will become a new annual tradition.

Mentorship Events: This year the aim for the Mentorship Program was to host monthly events to keep the first-year students active and talking to one another as well as their mentors. The program hosted events such as movie trivia nights, scavenger hunts, and networking panels and offered cuisines from all around the world at these events. This year there were roughly 40 first-year sign-ups which is comparable to the numbers seen pre-pandemic.

Sports Events: Tournaments were hosted twice a semester either within the Industrial Engineering discipline or a competition with another discipline. The purpose for these events is to encourage some physical activity in between major deadlines and assignments to keep the body moving and active.

Academic Events: Different panel topics were hosted throughout the academic year from second year course breakdowns to PEY experience panels. Most of these panels were hosted virtually; however, during exam periods, the academic directors hosted wellness events in study areas offering tea and snacks to students. These events encourage networking across students as well as professors and the department to aid in their future career development.

Importance of Funding:

The club's mission is to ensure all Industrial Engineering students feel welcome and have the opportunity to participate and enjoy the events hosted by the club. Every year, the Industrial Engineering Club strives to provide more noteworthy events each year, whether they are focused on academics, networking, socializing, or wellness. The funding allows the club to start new initiatives and expand the scope of the current events hosted.

This year, the club organized the Industrial Engineering-only Indy Bash at the AGO to honour the field and foster a sense of community among students and professors. The event was viewed as a big success and attracted an overwhelming number of students and staff. Furthermore, Industrial Engineering is one of the smaller and less well-known disciplines, thus the club worked with Hi-Skule, another club linked with the University of Toronto's Faculty of Engineering, to promote the discipline to high school students.

With an eye toward the future, the club intends to conduct even more varied events to attract more students, such as smaller-scale wellness activities for individuals who do not appreciate crowded events and events that don't require the purchase of tickets to increase the number of students able to join.

Alumni Engagement:

Alumni were not engaged in terms of aiding in hosting the events; however, they were invited through mutual connections to the events mentioned above. In the future, the academic directors are hoping to include hosting alumni panels to encourage building networks beyond the academic community.

MIE Dinner Dance

Indy Bash at the AGO

Institute of Electrical and Electronics Engineers University of Toronto Student Branch

Total Funding Awarded	**$9,100**
DO / EAN	$500
ECE	$5,000
EngSci	$1,000
EngSoc	$2,000
MIE	$300
YNCN	$300

Throughout this school year, IEEE UofT hosted over 10 technical and professional development events, including speaker series, hackathons and competitions, conferences and workshops, welcoming students of all majors and levels of study. None of these would have been possible without the support received from CPSIF. Specifically, the club spent $17,100 on NewHacks and $17,300 on MakeUofT, with the expenses mainly being used for participant prizes, hackathon swag, gifts for judges, shipping, and marketing costs. For the variety of workshops we hosted, we spent a total of $1,120, which consisted of the costs of electronics and hardware, gift certificates, and food for participants.

For 2022-2023, one of our highlights of the year was hosting MakeUofT, Canada's first and largest makeathon. This year we had a record-breaking 500+ applications and were lucky enough to be able to host it in-person again for the first time since the pandemic. With the capabilities awarded to us through CPSIF, we were able to make this an unforgettable experience for hackers. Specifically, this year, we welcomed over 300 participants, 20+ industry professionals, and over 50 organizers and volunteers to this event. The main objective of MakeUofT is to strengthen the design, teamwork, communication, and technical skills of its participants. We were able to achieve this and foster determination throughout our participant pool to create a variety of projects, including a brain-controlled wheelchair aimed to aid people with muscle control impairments. Through MakeUofT and other events, we strive to provide the Skule community and beyond with opportunities to develop technical and professional skills, and to serve as a bridge between Skule and a wider community of engineering students and professionals.

MakeUofT 2023

With CPSIF funding, we also held, for the fifth year running, NewHacks: a hackathon geared towards individuals who are just starting to scope the hackathon space. This year, we were able to expand NewHacks to have 300+ participants and an amazing group of mentors

and judges from industry companies like Intel, Synopsis and MLH. To many, NewHacks serves as an entry point into gaining their first hands-on technical experience, applying the knowledge learned in courses, collaborating with peers, and directly interacting with industry mentors.

Opening Ceremony for NewHacks 2022

NewHacks 2022

In addition to helping students develop their technical and professional skills through hackathons, we also held workshops throughout the year that, in addition to the knowledge of technical skills, incorporated networking and job-search opportunities. We also held Technical Interview Night again, which provided 60+ students networking opportunities with innovative professionals and the ability to gain experience with technical interviews. This year we were able to host representatives from various industry leaders such as Google, RBC, Qualcomm, Amazon, Huawei, Intel, Vena Solutions, and more.

Technical Interview Night (TIN)

Overall, CPSIF is essential to our club because our events simply would not happen without funding. The funding provided our club with enough resources for our significant development this year: we diversified our event portfolio, scaled up our existing events, reached more students, and collaborated with more industry partners. For the second year running, we were also able to hold all our events this year completely free of charge for participants.

Alumni Guests:

a. Haochen Zhang (EngSci 2T3)
b. Martin French (EngSci 2T1)
c. Julia Wagner (ECE 2T3), who also partook in NewHacks for judging and mentoring.

Jewish Engineering Society Impact Statement

Total Funding Awarded	**$1,430**
EngSoc	$1,430

We used these funds for venue rental, refreshments, and event decorations. The following table shows our CPSIF funding breakdown:

This year, thanks to our CPSIF funding, we had the opportunity to organize and host our annual Hanukkah celebration. We decided to rent out a vibrant board game cafe, brimming with an impressive array of games perfect for playing with friends.30+ individuals joined us for an evening filled with holiday fun. The assortment of games available, ranging from classics like chess and Jenga to engaging favorites like Apples to Apples and Anomia, provided an enjoyable and interactive experience for everyone present.

We curated a playlist of holiday tunes that filled the venue with a delightful Hanukkah atmosphere. The cafe had a wide assortment of food and drinks available, and in order to create a warm and welcoming environment, everyone had one non-alcoholic beverage covered by the Jewish Engineering Society's funding.

Additionally, we made sure to purchase a beloved Hanukkah treat—jelly donuts—as a delicious staple of the occasion, further enhancing the festive atmosphere and adding a touch of culinary tradition to the celebration.

Overall, our Hanukkah party served as a testament to the power of community and cultural appreciation, made possible by the support and resources provided through our funding. It was an evening marked by laughter, friendly competition, and the shared joy of celebrating Jewish culture, leaving a lasting impression on all who attended.

Board Game Café

This funding is vital in establishing a space within Skule that celebrates Jewish culture, strengthens the community of Jewish students and allies, and fosters meaningful connections. By creating this dedicated space with organized events and activities that promote understanding, appreciation, and engagement with Jewish traditions, we are contributing to building a vibrant and inclusive community within Skule. Though we did not this year, we would love to have future events where we engage with alumni.

Lady Godiva Memorial Bnad

Total Funding Awarded	**$500**
ChemE	$125
DO / EAN	$225
ECE	$150

The Lady Godiva Memorial Bnad had a successful and festive year thanks to CPSIF funding. The funding from CPSIF was specifically used to fix two alto saxophones, two trumpets, and buy one other used trumpet. This investment in instruments has already yielded dividends in that students have been able to borrow them for self-learning and use them to participate in long-lasting Skule traditions.

With the 150th anniversary of Skule this year, the LGMB had a very busy year. Apart from the usual dinner dances, F!rosh Week, and Godiva week activities, the Bnad participated in several alumni reunions, charitable runs and parades, recorded an album, and crashed the Skule 150 Gala. All these events were as successful as they were thanks to the funding that fixed previously broken instruments.

The highlight of the year for the LGMB was participating in the once in a lifetime Skule 150 gala. At the gala, we played the most beloved songs in our repertoire and our Bnad Leedur, Ewan Wai, recited the most recent version of the LGMB Rant. This is a time-honored tradition that many alumni were happy to know was still happening.

Skule 150 gala

Another highlight of the year is the fact that we were able to record and publish an album on Spotify. The album serves as a time capsule of the songs that we currently play, the style we play it in and how many people we play it with. Recording this album would not have been possible without the help of two alumni: William Merrick, and Christopher Goodfellow.

Album Recording Day

One last memorable moment in which the LGMB was able to bring musical cheer this year was at the 50th reunion of the Civil Engineering Class of 7T0. There were several past Bnad Members present who recognized some of the songs we still play today.

Latin Engineering Students' Association (LESA)

Total Funding Awarded	**$200**
EngSoc	$200

For the 2022-2022 school year, our first year as a formal organization, we primarily focused on having club socials and promoting club presence, in order to build a strong community of Latinx students within the engineering faculty. As such, our funding went towards fees associated with reserving spaces for our events, snacks, refreshments for events, and club stickers to increase our visibility within the student body. Our first general meeting was extremely successful, garnering a third of our current general members. A small portion of our budget funded this social event, specifically to purchase pizza to attract a larger crowd to the meeting. From this group of attendees, one member applied for the position of Vice President of LESA and successfully became a vital part of the executive team.

Money used for LESA Movie Night and Latin Lingo Night helped further promote club presence and Latin culture within the Skule community. For both our movie night and Latin Lingo, we allocated some of our budget to purchase snacks. Money from CPSIF was additionally used to provide an exciting prize to the winner of our Latin Lingo competition, where we taught the attendees of the event some common slang in each of the executive members' native countries, then quizzed them on the information we presented. This event was important for LESA because it fulfilled a major goal of the organization, which is to promote Latin American culture within our Skule community. As a brand-new club, and the first Latin culture club in the Faculty of Applied Science and Engineering, the funding received from CPSIF was invaluable in creating a space for students to bond over similar cultural backgrounds.

LESA Co-president Romel Luis Faife Cruz (left) with the winner of the poster hunt, Miguel Serra (right).

Latin Lingo Trivia Night

Let's Talk Science, University of Toronto - St. George Campus

Total Funding Awarded	**$7,400**
BME	$1,000
ChemE	$100
DO / EAN	$5,000
ECE	$700
EngSci	$200
MSE	$300
YNCN	$100

Let's Talk Science is an award-winning, national charitable organization that aims to engage children, youth, and educators in science, technology, engineering, and mathematics (STEM) through a wide variety of outreach programming. Over the past year, we have had a total of 194 volunteers registered with Let's Talk Science at the University of Toronto, St. George (UTSG) campus. We also reached over 10,000 youth from 183 unique communities in the Greater Toronto Area and beyond.

The Faculty of Applied Sciences and Engineering (FASE) continues to be a key source of financial support for our site's programming; we are tremendously appreciative for the generous support this year from CPSIF. Let's Talk Science initiatives across the country are offered free of charge to educators in schools, after-school programs, libraries, community groups, and more. Continued support from FASE ensures that the UTSG site can continue to offer the breadth and depth of programming developed over the past 27 years without the prohibitive costs frequently associated with STEM enrichment programs. This year, we transitioned from a virtual format to beginning to re-implement in-person events.

Classroom outreach is one of the foundational pillars of the Let's Talk Science outreach program. This past year, we reached 40 classrooms and over 10,000 students! Specifically, with CPSIF funds, we were able to purchase a premium Zoom account for our volunteers. These funds also allowed us to purchase materials for activities and for shipping costs for supplies for educators and students. For example, a few of the most popular engineering related activities were *Ancient Machines* (Grades 3-4) which described the various simple machines towards understanding compound machines, *STEAM League Flight controller* (Grades 4-12) which presented an interview with a NASA Flight controller and showcased various aspects of space sciences, and a *Biotechnology-related DNA extraction activity* (Grades 9-12) for which we shipped out hands-on materials to various schools.

Community partnerships are another pillar of LTS programming. This year, we are proud to have continued our partnerships with the Faculty of Medicine's Saturday Mentorship program (over 100 students), The STEAM League, and underserved communities for at-risk youth such as the Regent Park Community health program (over 100 students). From

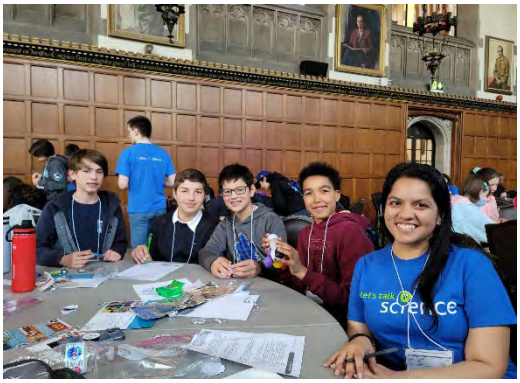
January to June 2023, online outreach activities on various topics such as Space sciences and engineering, First Nation Sciences, Nutritional Sciences, Paleontology, Microbiology, Indigenous Sciences, and Engineering/coding were delivered. As with last year, Scratch programming (developed at MIT) was implemented for the Saturday Mentorship program and was delivered mostly by volunteers from Engineering departments. With CPSIF funding, we were able to purchase and ship out activity materials specifically to Regent Park Community Health Program where the majority of the youth are at-risk and from underserved communities.

To add value to our program and properly train our volunteers, we were able to hold our annual Equity, Diversity and Inclusivity (EDI) workshop and an Indigenous Worldviews workshop. Both of these were interactive workshops that encouraged participants to explore concepts in EDI and Indigenous Worldviews topics and to engage in discussion about tangible strategies to incorporate what they learned into everyday life and science outreach. These workshops sufficiently prepared our volunteers for our future Indigenous Programming happening in the summer, and for our partnership with the Regent Park Community Health Program for at-risk youth. CPSIF funding was used to provide speaker gifts for these highly sought after workshops.

In addition, as of January 2023 we formed a new partnership with Alderville First Nation, for which we've put together a team of 7 to design, test, and deliver hands-on engineering and space science activities over the course of 3-5 days in a Summer Camp in July/August for about 30 students aged 10-14 from Alderville First Nation!

We are also widely recognized for our on-campus STEM enrichment events, including large-scale symposia. This year, we were able to successfully run 8 of these specialized symposia online, and receive extremely positive feedback for the engaging virtual and in-person formats. Three were run with community partners, namely StemCellTalks with the StemCell Network (124 students registered), Let's Talk Cancer with the Canadian Cancer Society (126 students registered). In large part due to the CPSIF funds, we were able to reintroduce one of our largest events, the Let's Talk Science Challenge, having been selected as one of a handful of outreach sites by LTS National Office due to our ongoing success with this event. It features an engineering design challenge that nearly 70 grade 6-8 students participated in. We are also grateful for the generous donation of Jr DEEP engineering camp spaces from the Engineering Outreach Office that we were able to provide as our top prize for the overall winning team of four grade 6-8 students. We also welcomed a few alumni, one of whom was our quizmaster, another of whom was our special guest speaker, and others who took on other varying volunteer roles. Three symposia were done in collaboration with UTSG departments such as Pharmaceutical Sciences Day, Physiology Day and Biochemistry Day (about 150 students cumulatively). We will also hold our 3rd annual Bioengineering Day (ongoing) and planning for our new events, namely Brain Injury Day (expected 50 students) and Medical Innovation Discovery Day (expected 50 students), the latter in partnership with UofT PRiME. The format of our symposia mainly consisted of guest speakers, hands-on activities (virtual or in-person), design challenges, and trivia challenges.

14th annual StemCellTalks



Let's Talk Science Challenge event

On May 29th, 2023, we will host the third annual Bioengineering Day virtually. The symposium which covers cutting-edge bioengineering topics such as Lab-on-a-chip, organ-on-a-chip, organoids, stem cells and CRISPR. This event is expected to bring nearly 100 students from across Canada. Speakers and organizers of Bioengineering Day will consist of graduate students from the Institute of Biomedical Engineering and the Faculty of Medicine. We also have a speaker experienced in the Bioengineering field give a talk who also happens to be an alumnus of the Chemical Engineering graduate program at UofT. We have received amazing feedback from teachers and students in past years.

We hosted the 14th Annual StemCellTalks Symposium in partnership with the StemCell Network. The theme of this year's symposium was Stem Cells in Personalized Medicine. Featured speakers included world-renowned professors like Dr. Virginie Defamie (University Health Network), Dr. Maryam Faiz (University of Toronto), Dr. Penney Gilbert (University of Toronto), Dr. Ian Rogers (Lunenfeld-Tanenbaum Research Institute), and Duncan Carruthers-Lay (Stem cell donor). CPSIF funds were used for student prizes, activity materials and speaker gifts.

On May 10th, Let's Talk Science Challenge (LTSC) held at the UofT St. George campus Hart House, invited 68 students from across the GTA to answer science quiz questions across all STEM fields and finally face an engineering challenge to conceptualize and present a design for transporting and storing seeds on future missions to the Moon. This event was organized and hosted in collaboration with various local sponsors and alumni, such as from the department of Medical Biophysics at UofT.

We are proud of the outreach we were able to do thanks to the funding we received from CPSIF. We were able to think of creative ways to implement our activities, keep students engaged in STEM, provide an enriching experience for our volunteers and even significantly expand our reach. We also delivered more outreach to at-risk youth. We hope to continue a mixed in-person and virtual format for the coming year and are excited to be able to deliver our symposia and visit classrooms in person and virtually.

Materials Industry Club

Total Funding Awarded	**$1,660**
BME	$60
DO / EAN	$650
MSE	$950
YNCN	$60

The U of T Materials Industry Club's mission is to connect U of T engineering students with professionals and career opportunities in the materials industry, and to prepare students for success in the industry.

We held a Research Showcase to bring students together to learn about research opportunities within the Materials Science and Engineering department. Students had the opportunity to connect with five U of T Engineering Professors who were invited to showcase their research. At a PEY & Alumni panel, students connected with four alumni and one current PEY student and learned about their experience in the materials industry. Funding was used for thank you gifts for the Professors and alumni, as well as for food to enhance the event experience.

In the winter term, the MIC Speed Interview Plant Tour at Celestica were held. For the Speed Interview, MIC invited materials industry professionals (including alumni) from Litens Automotive Group, Magna, Peel Plastics, and CEP Forensic to conduct speed interviews with students. This was an opportunity for students to practice their interview skills as well as to connect with the industry professionals. Funding this year has allowed MIC to cover catering services.

MIC Speed Interview

The most ambitious event held by MIC this year was the Plant Tour at Celestica's Newmarket Manufacturing facility. For this event, roughly 20 students were transported to the site and given a guided tour of the plant. Funding was crucial in covering the bus rental cost.

Additionally, the funding covers membership fees for the Electrochemical society, Materials Advantage, and other industry organizations.

Alumni guests:

a. Mark Liao
b. Marlon Palmer
c. Derek Aranguren Van Egmond
d. Jimmy Bai
e. Jacqueline Feuitault
f. Samy Ghobrai

Materials Science and Engineering Graduate Students' Association (MSEGSA)

Total Funding Awarded	**$2,300**
MSE	$2,300

The CPSIF funding played a critical role in enabling our student organization, MSEGSA, to revive and sustain several important traditions and events throughout the academic year. One of the most notable events that we were able to bring back was the annual Christmas pizza lunch, which has been a long-standing tradition in our department. This event not only brought together students and the faculty to celebrate the holiday season but also fostered a sense of community and belonging within our department.

We organized the World Cup day, game night, and provided pizza, snacks and drinks to the students. These events created a fun and engaging atmosphere for students to relax and socialize with each other.

Department pizza lunch

We also held the very first graduate student ping pong tournament, which was a huge success. The tournament not only provided a platform for students to showcase their skills but also promoted healthy competition among the students. We also organized a department pizza lunch and industry day, which provided valuable networking opportunities for students to connect with the faculty and industry professionals to explore potential career opportunities.

We also held a student-faculty mixer every semester, which was a great opportunity for students to interact with faculty members outside of the classroom and build relationships that could be beneficial for their academic and professional development. The feedback we received from students was overwhelmingly positive.

MSEGSA also provided seminar cookies and weekly Fridays coffee breaks to provide a space for students to connect and socialize with each other. We also purchased common room supplies such as a TV remote, hand soap, batteries, table tennis balls, and utensils, which were essential in creating a comfortable and well-equipped space for students.

The CPSIF funding was crucial in advancing our organization's goals and activities. We are confident that the impact of our organization and initiatives will continue to inspire and benefit the Engineering community for years to come.

Mechanical Engineering Club (Mech Club)

Total Funding Awarded	**$7,000**
MIE	$7,000

Throughout the academic year, our mechanical engineering club utilized the funding we received from CPSIF to support a range of initiatives, activities, and events that greatly enriched our organization and contributed to the vibrant spirit of our Skule community. One major event that our club organized was the Engineering Olympics, where participants engaged in various competitions and had the opportunity to win prizes. The funding we received allowed us to offer attractive prizes, which not only motivated participants to excel in their respective fields but also fostered a sense of healthy competition among engineering students. This event created a platform for students to showcase their skills and talents while promoting camaraderie and collaboration within the Skule community.

In addition to the Engineering Olympics, we allocated a portion of the funding towards purchasing board games for our common room. This initiative aimed to provide students with a space where they could unwind and enjoy their downtime while engaging in social activities. By offering a variety of board games, we encouraged interaction, relaxation, and the development of interpersonal skills. The common room became a hub of leisure and connection, fostering a stronger sense of community among engineering students.

Board Games Night

Furthermore, we organized various food events throughout the year, including a highly successful street food event that attracted over 200 participants. The funding we received played a crucial role in bringing diverse food vendors to our campus, allowing students to experience different culinary delights and cultures. These events not only provided a unique and enjoyable experience for participants but also fostered a sense of inclusivity and cultural appreciation within our Skule community.

We also established a mentorship program that paired experienced upper-year students with incoming freshmen. This program provided valuable guidance, support, and advice to the newcomers, helping them navigate the challenges of their academic journey. The funding enabled us to organize mentorship events, workshops, and networking opportunities, which significantly contributed to the academic and personal growth of the mentees.

Lastly, the CPSIF funding allowed us to host academic panels that addressed the questions

and concerns of mechanical engineering students. These panels featured industry professionals, professors, and alumni who shared their expertise and experiences with the attendees. Through these informative sessions, students gained insights into potential career paths, industry trends, and academic opportunities. The funding ensured that we could provide a platform for knowledge sharing and guidance, empowering students to make informed decisions and better prepare for their future endeavors.

In summary, the CPSIF funding played a crucial role in advancing our organization's goals and activities. Our initiatives not only enriched the experiences of mechanical engineering students but also contributed to the vibrant spirit of our Skule community. The funding provided opportunities for personal growth, skill development, community engagement, and knowledge sharing, making a positive impact on our organization and the wider community.

Alumni guests:

a. Sharon Ferguson (Research Panel)
b. Khalid Gaber (General Membership Panel)
c. Professor David Steinman

In summary, our organization engaged with several alumni during the research panel questions and general mentorship panel questions events that took place in January. Sharon Ferguson, Khalid Gaber, and Professor David Steinman, who is also an alumnus, actively participated in these events, providing valuable insights, guidance, and mentorship to our students. Additionally, Jennifer Kieda, a TMU alumnus, also made a valuable contribution to our panels. Their involvement enhanced the quality and impact of our events, showcasing the importance of alumni engagement in our organization's initiatives.

Mech Iron Ring After Party (March 2023)

(From left: Nish Gandhi, Kartikeya Dhingra, Alaa Hatoum, Liza Dmitrieva, Phil Cuvin, Minnie Menezes, Kimia Abedi, Sara Hadzimustafic)

Pumpkin Smash Midterms Destresser

MIE Dinner Dance (November 2022)

Materials Science and Engineering Discipline Club (MSE Club)

Total Funding Awarded	**$5,500**
DO / EAN	$800
MSE	$4,500
YNCN	$200

This funding that received was used to enhance MSE students' social, academic, and networking activities. The largest event was Buckyball, our annual dinner dance event. This staple MSE event gives students an opportunity to network with professors while enjoying a formal dinner event with their peers. This year, a new initiative was introduced to pair up first year MSE students with upper year mentors. This mentorship program used MSE club CPSIF funding to host monthly events for mentees and mentors. Each year was also granted funding from our budget to host a year social, bringing together students throughout their class in a social setting. MSE club also funded the Iron Ring party for the graduating class of 2T3. 2023 also saw the return of the Annual Torstein A Utigard (TAU) ping pong tournament, an MSE Club tradition which has been on hold for the past few years due to the pandemic. Overall, funding awarded to the MSE club was used to hold events throughout the year with the purpose of bringing MSE students together across all years.

This year the club held a Frosh event, a Halloween trick or treating event where students were able to network with professors outside of the classroom, a Christmas and Secret Santa event, Coffee House where MSE students could showcase their musical talents, Buckyball, and the first year mentorship program. MSE club was able to host new events such as the MSE Industry Day in March 2023, providing students with an opportunity to meet and speak with MSE alumni and company recruiters from 8 MSE related companies, expand their professional network and learn about different MSE industries and employers.

We were also able to design and introduce brand new merchandise, in the form of quarter zip sweaters, as well as new colours of the successful MSE logo hoodie which was introduced last year. With the additional merchandise the club was able to host the annual Home is Wallberg day where students and faculty are able to come together and show their Skule spirit, which largely increases the feeling of community that is so important.

MSE Club members at Buckyball 2T3

(From left: Kyla, Kady, Iva, CJ, Lillian, Mason, Rebecca, Raysa, Tobin, Jasnoor, (front) Renee, Michelle, Josh)

National Society of Black Engineers, University of Toronto Chapter

Total Funding Awarded	**$3,450**
BME	$300
ChemE	$500
CivMin	$300
DO / EAN	$1,000
EngSci	$200
EngSoc	$500
MIE	$300
MSE	$50
YNCN	$300

The impact report details the outcomes and achievements resulting from the funding received for our National Convention, Hackathon and Membership Engagement activities. Networking Opportunities:

One of the key areas where your funding made a significant impact was in facilitating networking opportunities for our student members. We were able to ensure that our attendees had access to a wide range of workshops, panel discussions, and keynote presentations. These sessions were carefully curated to provide educational and developmental opportunities, equipping our students with valuable skills, knowledge, and insights relevant to their academic and professional journeys. These platforms allowed our students to connect with professionals, industry leaders, and potential mentors, fostering valuable relationships and opening doors for future collaborations and career advancements. Examples of these events includes room booking, food provision and AV connection:

a. Fall Industry Panel October 6th
b. Career Week October 11th- - 14th
c. Winter Industry Panel February 13th

Kick off event for the year

Through your support, we were able to offer accommodation and travel assistance to deserving students who faced financial barriers to attending the National Convention. These scholarships enabled individuals with exceptional potential and dedication to participate in the event, providing them with a unique platform to showcase their talents, learn from others, and access valuable resources and opportunities that would have otherwise been inaccessible. The conference date was from March 22 - 26th in Kansas City. We were able to support 9 students to attend the conference with 3 of them being first year students.

The attendee at the National Convention in Kansas City Missouri.

NSBEHacks is our largest event. It was a 36 hour hackathon whose main aim is to equal the footing for Black students within Canada by placing them in an environment where they are encouraged to be creative and innovative. It was held from March 4th - 5th, 2023 and free for attendees. The theme for NSBEHacks 2023 was Inclusive Innovation. We took a social approach to problem solving by not just inviting minorities into the space to design and create but are actively making them the center of the process. The support provided by CPSIF always plays a critical role in the success of NSBEHacks as we use it to improve the quality and quantity of resources that we are able to provide students.

Our Best Beginner Hack Challenge at NSBEHacks 2023)

With the funding received, we were able to initiate the first-ever hackathon for 30 girls at Maple Public School. This event provided an opportunity for young girls to explore their interest in technology, develop their coding skills, and foster a passion for STEM fields. The hackathon served as a catalyst for empowering these students and inspiring them to pursue future endeavors in the technology industry. This event took place April 24th and was inspired by NSBE Hacks.

Furthermore, CPSIF enabled us to extend our mentorship activities to Downsview High School and Maple Public School. We successfully implemented a shadowing program where two students from Downsview High School were provided with the opportunity to shadow students studying engineering. The duration of this was from September - January. This experience allowed them to gain firsthand insights into higher education and broaden their understanding of potential career paths.

PEARS Engineering Branch

Total Funding Awarded	**$1,850**
BME	$150
ChemE	$100
CivMin	$100
DO / EAN	$500
ECE	$350
EngSci	$100
EngSoc	$200
MIE	$300

This past year, the PEARS Engineering Branch was very fortunate to receive $1850 in funding from CPSIF. Through the funding received, PEARS has begun creating a culture of consent and educating people in the engineering community on issues surrounding sexual and gender based violence. As a club this year, we have placed a particular emphasis on education and community building within Skule. With the funding we received, we were able to host pop ups with educational programming, professional educators, and snacks to entice active participation. Below is what a pop up hosted on February 27th look like.

PEARS Engineering Branch Pop-Up

Another program that was made possible thanks to contributions from CPSIF is a free safe sex and menstrual supplies distribution program. The aim of this program was to normalize and encourage safe sex within the Skule community as well as to reduce the cost of menstruation. The supplies were provided to students in baskets that were discreetly placed in bathrooms in engineering buildings to maximize reach and impact. In conjunction with this program, we also provided pamphlets and cards on topics such as the basics of consent and how to use the safe sex supplies provided. We especially attempted to provide this educational material during the first 8 weeks of school since that is when 50% of sexual harassment occurs on a university campus.

Safe sex and menstrual supplies distribution program

The club's highlight of the year came in April where we were able to support other branches of PEARS in the Students for Survivors Protest through a poster making workshop and community building event. The posters that we made were then used in the Students for Survivors protest organized by The PEARS Project. This protest gave a voice to over 100 survivors to advocate for positive change in the university's policy on sexual violence. The posters we made helped to create an environment where survivors were prioritized and heard. The funding from CPSIF helped to create the most supportive and welcoming community that I have experienced at UofT.

Students for Survivors Protest

Lastly, we used the funding from CPSIF to train over 20 students to identify and intervene in instances of sexual violence that may happen in the Skule community, This includes instances that may happen in the classroom, or in the broader skule community. In providing training to students in the engineering community, we hope to invest in the future of Skule and in the idea that everyone deserves a safer space.

On behalf of The PEARS Engineering Branch, I would like to thank the Mechanical, Industrial, Chemical, Mineral, Engineering Science, Electrical and Computer Engineering Departments as well as the Alumni Association, the Engineering Society, BME and YNCN for supporting students in our goal of eliminating gender based violence on campus

QueerSphere

Total Funding Awarded	**$2,150**
BME	$140
ChemE	$100
CivMin	$100
DO / EAN	$140
ECE	$180
EngSci	$140
EngSoc	$1000
MIE	$200
MSE	$50
YNCN	$100

QueerSphere is the engineering 2SLGBTQ+ student group at University of Toronto. We hold educational and social events with the goal of creating a safe and inclusive space for 2SLGBTQ+ individuals to engage in positive discussion, spread awareness, and increase visibility within the engineering department.

The funding provided by CPSIF was used to host queer engineering specific events which would not have occurred otherwise: Queer town hall, Grad Undergrad Mixer, Gay!me nights and Pride Drag show night. These events are important to the SKULE as at Gay!me nights provided a queer positive space to socialize and meet each other. This is especially important during orientation so that queer Frosh can find community early in their time at U of T.

Queer Orientation - Gay!me Night

Collab with Grad Chapter - Pumpkin Bedazzling

The town hall QS hosted allowed for the discussion of queer specific issues on campus to faculty members. The topics of discussion ranged from the lack of gender neutral and even sometimes women's washrooms in engineering buildings, the lack of a specific safe space for queer students on campus, and the difficulties dealing with nuanced microaggressions and overall lack of respect for queer students from certain professors.

FASE Queer Town Hall

The mixer hosted by QueerSphere provided a queer environment to facilitate conversations of continuing education and how being queer is a part of it. Finally the pride drag show is an integral part of showing the impact of the queer community in engineering and celebrating queer culture.

*Pride S*ds x Drag Night - UofT Alumni Drag Performers Veronica von Snatch*

All of these events advance QueerSphere's goal of carving out a comfortable and positive space for queer students in engineering while advocating for Queer issues. Additionally, the funding was also used for the purchasing of 300 QueerSphere patches which can provided an additional income source for the club as they are sold as a profit as well they are the first Queer patch associated with SKULE allowing for Queer people to celebrate their identity on coveralls and leather jackets both culturally significant items to Engineering at U of T.

All QueerSphere events are open to alumni, and our QueerSphere Grad Chapter collabs get to specifically invite alumni as their members are often also U of T alumni. Such collabs included our pumpkin bedazzling event, and the Grad Undergrad mixer where approximately 20 Grads were present at the mixer. Additionally, 2 of the performers for the Pride Drag Night (Miss Shay Dee and Veronica von Snatch) are both U of T alumni and were specifically hired as part of the event.

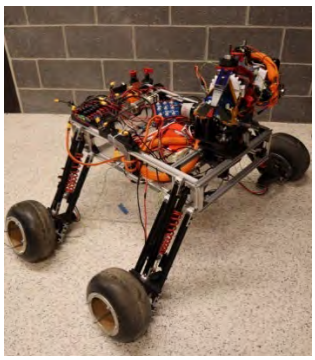
Over the course of this year QueerSphere has really grown and developed, with its exec team taking on new members with a 100% retention rate. hosting many more events than last year as well as taking on larger issues like securing a queer positive safe space on campus and establishing an undergraduate mental health micro grant. QueerSphere hopes to continue this upward trend cementing itself into the fabric of SKULE as a crucial and long-lasting club. QueerSphere is also working on creating and expanding a professional development section to support queer students in finding jobs and those seeking professional advice. We are also striving on expanding our reach and ensuring that all of SKULE knows the club.

Robotics for Space Exploration (RSX)

Total Funding Awarded	**$8,200**
ChemE	$200
DO / EAN	$1,500
ECE	$3,750
EngSci	$700
MIE	$1,500
MSE	$50
YNCN	$500

The Robotics for Space Exploration Team (RSX) would like to express our sincere gratitude towards the CPSIF committee. We had a very successful season this past 2022-2023 year including going to our first competition since the start of the COVID-19 pandemic and reigniting our SEEK outreach competition to help high school and university students get the opportunity to gain practical experience working with robotics.

RSX is the University of Toronto's only Mars Rover design team that has been running strong since 2013 formed by student alumni who were passionate about robotics and space exploration. For us, "The sky is not the limit, it just gets in the way," and that embodies our commitment to always challenge the boundaries of what is possible for UofT Engineering students through competitions and educating others in an industrial environment. We strive to push the boundaries for what the next generation of skilled Canadian engineers should exemplify at the forefront of the Space Industry. This year our team has expanded to over 75+ members from various programs at UofT including Engineering (Engineering Science, Mechanical, Electrical, Computer, Mineral, Chemical, Materials and Science, and Industrial), Physics, Computer Science, and other Arts & Science departments. RSX gives members the opportunity to apply in-class theoretical knowledge and gain professional development in industry-standard tools such as Altium, SOLIDWORKS, AutoCAD, Fusion360, Canva, Gazebo, ROS and many more to help our members gain technical expertise in the field of robotics. The CPSIF funding helps renew these software licenses.



2022 RSX Rover: Goose

This funding has supported purchasing materials, equipment, and tools to create our rover. Going team by team, Electrical has invested in new soldering equipment, PCBs, microcontrollers and other interfacing modules, and networking equipment such as antennas; Arm has invested in Spark Max's and Neo motors, cameras, microcontrollers and strain

wave gearboxes; Mechanical has invested in a new 3D printer, tools, carbon fibre molds for the chassis and other machined components; Software has invested in a new AMD X86-based on-board computation platform for the rover, cloud computing and improving their networking infrastructure; and Science has invested in PCBs, life detection equipment – including cameras, sensory modules and firmware microcontrollers, and drill motors. Credit to the Science Division who has accomplished a perfect score in our 2023 application for the University Rover Challenge (URC) making this a 2-year streak! In addition, the funding helped us become one of the only teams at UofT to attend a competition coming out of the COVID-19 pandemic, the Canadian International Rover Challenge (CIRC).

Team Robot traversing through Moon Crater for SEEK Hackathon

We have hosted 2 full-day Robotics Hackathons called SEEK Jr. and SEEK (Space Exploration and Engineering Kompetition) for secondary school and university students respectively. There were approximately 54 students and 8 teachers that signed up for SEEK Jr. and 120 students for SEEK. Our team has been recognized by the Canadian Space Agency (CSA) for our contributions and rewarded a grant of $12,464 for this program to allow us to host SEEK for free next season for all attending members! We have also redesigned our team's merch this year and have invested some money into socials such as a Pumpkin Carving.

RSX Co-Presidents Krishanth Suthaharan & Jeremy Mainella

For the 2022-2023 year, we would like to give a mention to our other sponsors: Zebra Tech, UTIAS, Nerpa Polymers, Nordspace, Viking Engineering & Tool, North Liberty Properties Inc., Protocase, SOLIDWORKS and Altium. In addition, we would like to share our appreciation towards facilities like the Myhal Arena & ECF Lab, U of T Student Machine Shop, the University of Toronto Institute of Aerospace Studies (UTIAS) Mars Dome facilities for helping us fabricate, assemble and test our Mars Rover. For the upcoming season, RSX looks forward to continue to deliver on key promises such as an amazing experience in Robotics, competing in Mars Rover Competitions, and giving back to the community.

2022 - 2023 RSX Team

Skule 150

Total Funding Awarded	**$24,600**
BME	$1,000
ChemE	$500
DO / EAN	$20,000
EngSci	$1,000
MIE	$2,000
YNCN	$100

This past year, UofT engineering celebrated its 150th anniversary! The Skule 150 team was a student-led initiative designed to pull students, faculty, and alumni together to celebrate this achievement and to look at how engineering has grown and changed. Our focus for the celebration was split over 3 main events that started with the Women of Skule summit. This summit was for students, alumni, and faculty to get together and to hear stories from Skule history as we looked and reflected on how the experience for female students has evolved.

Women of Skule

Following this, we celebrated Founding Day on March 29th. The Skule 150 team ran events for all engineering students to participate in which included a bouncy castle, clubs fair, free food and a special unveiling of the new Skule Cannon! The focus of the day was to showcase the rich history that UofT engineering has and the community and culture that makes our school so unique.

Founding Day

The final major event that the Skule 150 team helped to organize was the 150 Gala. This event brought over 1200 staff, students, and 500 alumni together at the Fairmont Royal York in a celebration unlike any other in the history of Skule! This event had something for everyone to see and enjoy. The event floor had different activations from design teams like Concrete Toboggan, Formula SAE, RSX and UTAT to showcase their teams history and future.

In addition we led a social media campaign counting down to March 29th for 150 days. Each day, a picture from a different year was posted. Our team worked closely with the UTARMs at Robarts to help research and piece together the early history of engineering at UofT.

Skule Alumni Outreach Project Directorship

Total Funding Awarded	**$600**
BME	$50
ChemE	$50
EAN	$400
ECE	$50
EngSci	$50

Our club helps to connect Skule alumni with current Skule undergraduate students through various events and initiatives. Interacting with alumni who have previously been in the shoes of the current undergraduate students is invaluable experience. Skule alumni have a wealth of knowledge and by providing opportunities for them to share it can help students learn about a variety of industries and career path options.

At Alumni SUDS in the fall, CPSIF funding was used to enhance our booth by printing tickets to hand out to the alumni and a photo board, both designed by the Skule Alumni Outreach team. These features encouraged Skule alumnus to interact with the Skule Alumni Outreach booth and partake in the activity. This activity was for Skule alumni to share a piece of advice with current undergraduate students. Throughout this event, we interacted with 37 alumni.The Skule Alumni Outreach team designed the quotes into graphics and had them printed.

Skule Alumni Outreach hosted a resume review event where 10 alumni volunteers were recruited to help review and provide comments on 38 Skule undergraduate students. To promote this event and encourage Skule undergraduate students to participate, the Skule Alumni Outreach team designed posters to be printed and put up around the engineering buildings.

When executing the resume review Skule Alumni Outreach executed, we recruited 10 alumni to volunteer to review resumes of current undergraduate students. Together, they helped to review and provide comments on 38 Skule undergraduate students.

Alumni guests:

a. Jacob Foster
b. Andrew Cheung
c. David Lee
d. Taabish Hasan
e. Joshua Pius
f. Amina Sherif
g. David Shindman
h. John Perry
i. Truman Yuen
j. Amir Ganiev

Serena Mandla, Ian Bennett, Omid Vaheb, Faraz, Eric Andersson, Hao

Skule Badminton Club (SBC)

Total Funding Awarded	**$550**
DO / EAN	$150
ECE	$100
EngSci	$100
EngSoc	$200

SBC would like to express our gratitude for the CPSIF funding we received this year. With the financial assistance, we were able to successfully host bi-weekly drop-in court hours for our 165 members from the Skule community. The funding allowed us to provide shuttlecocks, rackets, and other necessary equipment, as well as reserve the gym space at the Athletic Center for our club members.

Throughout the academic year, we organized and participated in various initiatives, activities, and events. We hosted a friendly tournament between different student groups, organized a badminton workshop for beginners, and collaborated with the Engineering Athletic Association to form competitive intramural teams. As a result, our club was able to attract more members and offer a more inclusive environment for students to engage in physical activity and socialize with their peers.

Funding from the University of Toronto is our club's main source of revenue. We ask members to pay a small membership fee to assist with the budget, but this source of revenue is not nearly enough to keep the club afloat. Without CPSIF funding, the club would need to ask members to pay unreasonable amounts in order to take care of booking fees and miscellaneous expenses. This funding was important to our club as without it, we would not be able to organize larger events where students from engineering and other majors come together and meet each other in a larger badminton community.

Overall, the CPSIF funding had a significant impact on our organization and contributed to the vibrant spirit of our university community. We believe that our club's activities and events have positively impacted the wider community by promoting healthy habits and social connections among students. We are grateful for the support and look forward to continuing our efforts to foster a healthy and active community on campus.

Court hours

Over the past academic year, our club has organized a number of initiatives, activities, and events. These included friendly matches with other badminton clubs, a mini-tournament for our members, and a giveaway for our members. We also purchased new equipment such as shuttlecocks and nets to improve the quality of our sessions.

The CPSIF funding that we received last year was instrumental in advancing our club's goals and activities. It allowed us to organize more events and purchase higher quality equipment. This, in turn, attracted more members and increased the overall participation in our sessions.

The funding was particularly important for us because it allowed us to keep our drop-in sessions free of charge for members. We believe that this makes the sessions more accessible to students who might not otherwise be able to afford to participate.

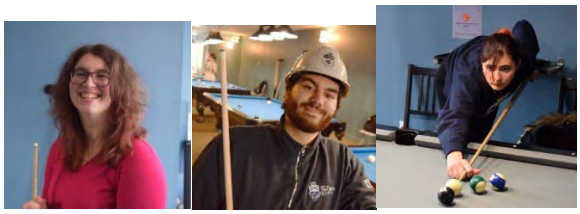
Overall, we believe that our club has a significant impact on promoting a healthy and active lifestyle among engineering students and other undergraduates. We believe that the funding that we are requesting will help us to continue to provide these important services to our community.

We invited alumni to participate in tournaments and bring their friends to all of our club events. Our facilities provided them with a venue to meet up and reconnect by playing a match of badminton, as well as introducing them to the current undergraduate members. These relationships were built over the course of the year at our bi-weekly court hour events in which alumni and previous club executives played friendly doubles matches with each other and the other members.

Skule Billiards Club

Total Funding Awarded	$1,053.39
EngSoc	$1,053.39

Skule Billiards Club is one of the newest clubs at University of Toronto that is dedicated to cue sports (e.g., billiards, pool, snooker, etc.) commonly referred to as Billiards. The club was created in 2022 when the founders realized that no club or organization existed within University of Toronto that had a focus or interest in Billiards. Wanting share their passion with the greater student body they banded together alongside with a small group of friends to establish the club.



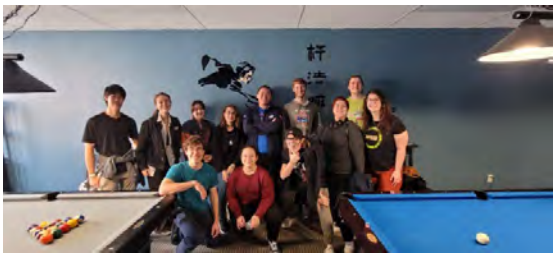
The Founders

(From left: Mila Markovski, Farbod Mohammadzadeh, Kaija Mikes)

The club was created to foster a greater sense of community within the engineering student body by bringing people together through fun experiences and engaging events. Therefore, plans were made to host bi-weekly events that would invite all interested students and alumni to attend a local pool hall and play with their fellow peers along with an end of year tournament that allowed enthusiastic players to compete alongside each other in a double elimination style tournament for a chance to win various prizes as well as bragging rights.

We were only able to fulfill those ambitions due to the generous funding provided to us from the CPSIF program. That is why we are profoundly grateful for the program and the funding that they have provided us. The money we received went towards the renting of equipment and space such as 5 tables for each of our regular events and 6 tables and prizes for our tournament. Hosting large events for what eventually became upwards of 20 people is rather costly and to be able to use our funding to give students a well-deserved break with one of the most time-honored sports was the experience of a lifetime.

To tell a little bit more about our story, we start off with our first ever event on November 5th, 2022.



First ever event

With a small band of friends (some of which we had to convince) we attended an hour of pool at a local pool hall. We rented some tables and brought everyone together to have a good time! With just over 10 people we came together and had one hour of stress-free time to hangout with friends and play pool.

This quickly evolved as others noticed our club and decided to give it a chance! In subsequent events our numbers quickly grew to 20 attendees. This was amazing as it was no longer just our friends, but their friends and students and alum who had seen our advertisements on social media, the SKULE newsletter, or our posters put up around engineering buildings.

With our increased popularity we were very happy to have the funding we had, as it meant we could accommodate for all students without having to ask them to pay to participate. It also allowed us to be creative and have events that we hadn't even thought about. For example, we were able to collaborate with the SKULE 150 and Blue and Gold committees to plan an event during B.U.S.T.E.D. This was a planned excursion to the historical town of Ajax where the famous University of Toronto Ajax campus existed from 1946 to 1949. Then we decided to host this event as an homage to the old campus as it historically had a pool hall. This was quite momentous as we were able to plan and follow through with a large-scale event in a short period of time that turned out to be great fun for all those who were there!

Collaboration with SKULE 150 and Blue and Gold

Finally, we finish with our end of year tournament. We were able to run a 16-person double elimination style tournament with some of our most dedicated players. Once again, we were very lucky to have our CPSIF funding as our tournament was an event larger than anything we had planned before. We needed to rent the entire pool hall for 3 hours and purchase prizes for the champions. Without our funding this would have been highly costly, and it we would need to charge a large a large entrance fee. However, we were able to host the event and keep our players entertained and engaged through the tournament and promote good fun and friendly competition among players.

We'd like to take this opportunity to thank all the people who made this club possible from the players to the amazing people at the University of Toronto Faculty of Applied Science and Engineering and the Engineering Society who provided us with moral and financial support. Especially, Noah Guerin the Vice-President of Student Life of the Engineering Society during the 2022-2023 academic year. He helped us tremendously during the year and was always available for help and guidance and we are forever thankful for that!

Skule Choir

Total Funding Awarded	**$1,325.63**
BME	$50
ChemE	$50
CivMin	$75
DO / EAN	$350
ECE	$250
EngSci	$100
EngSoc	$300.63
MIE	$100
MSE	$50

Skule Choir is very grateful for the support of the departments, engineering society, and the alumni network who contributed through the CPSIF. This was our club's seventh year, and this support is especially important to us as a young club.

In particular, this year's funding allowed us to return to in-person weekly rehearsals and end-of-semester concerts, which was particularly important for chorister experience due major drawbacks of online rehearsals including sound delay, technical difficulties, and inability to hear the choir as a whole.

The funding also allowed us to rent the Knox College chapel for our concert. Without this music and this space, we would not have been able to provide both engineers and the wider university community with high-quality concerts of music that they would have limited other opportunities to hear. The exposure we gained from in-person concerts brought us inquiries of joining the choir as conductors, pianists, and choristers, which positively impacted our choir in consideration of expansion beyond our current size.

Nevertheless, the funding provided us the opportunity to invite Kathy Haddadkar, our new addition to the Faculty of Music here at UofT to lead a clinician workshop on vocal techniques, providing unique educational opportunities for our choristers.

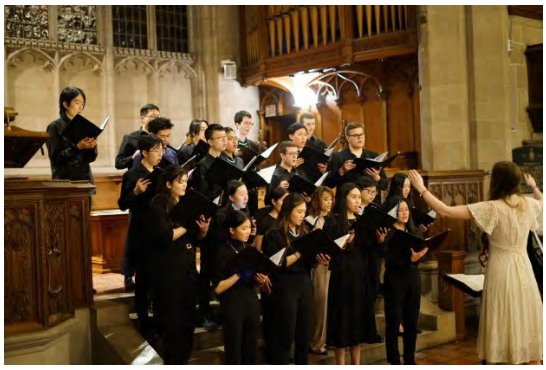
Unused funding will be carried forward to the next fiscal year for possible expansion of our choir size, which involves purchasing more music, renting a bigger space for our concerts, and food and drinks for workshops. With the support from the faculty, we were able to transition our operation smoothly from online back to in-person and hybrid, and provide engineers and the wider university community with the opportunity to make music together regardless of geographical location.

In the past, the main ways for alumni to engage with our club were joining as members or attending our concerts. This year, we continue to have alumni as our choir members. Moreover, our performances are posted as video recordings on our choir website and social media for access to the greater alumni community. Although the composition of the

audience is not clearly gauged due to the nature of our performance, anecdotal evidence from our members still suggests that some alumni viewed our performance videos.

This funding is important to our club since it is impossible for us as a newly-formed music group to cover our costs. Concerts were our main source of revenue, which being limited to online activities deprived us from gathering revenue.

Here is a hyperlink to our live streamed winter concert, *A Night of Hearth and Joy:* https://www.youtube.com/watch?v=TNGUMB7NwWY



Winter concert, A Night of Hearth and Joy.

Individuas present in the image include: Alex Wang, Andrew Guaiana, Andy Guo, Arthur Chan, Arthur Podpora, Chanelle Shing, Celeste Thordarson, Colin Gu, Dean Yu, Jamie D'Alessandro, Jeffrey Zhou, Jenn Xu, Ken Hilton, Lauren Levorson-Wong, May He Tesoro, Michael Zheng, Michelle Wang, Ria Borger, Trinity Yu, Tyler Chen, Valerie Ng, Wing Yan Chan

Spring concert, Dreamers of Dreams.

Individuals present in the image include: Alex Wang, Alyssa Choi, Andrew Guaiana, Andy Guo, Anna Tanczak, Arthur Podpora, Chanelle Shing, Colin Gu, Jeffrey Zhou, Julia Ramsey, Lauren Levorson-Wong, May He Tesoro, Michelle Wang, Trinity Yu, Tyler Chen, Valerie Ng, Vicky Xu, Wing Yan Chan

Clinician workshop with Kathy Haddadkar.

Individuals present include: Alex Wang, Alyssa Choi, Brennan Schommer, Jeffery Zhou, Julia Ramsey, Kathy Haddadkar, Michelle Wang, Paige McFarlane, Tyler Chen

Skule Financial Literacy Club

Total Funding Awarded	**$1,450**
BME	$150
ChemE	$50
DO / EAN	$500
EngSci	$200
EngSoc	$200
MIE	$150
YNCN	$100

The Skule Financial Literacy Club (SFLC) is an organization that is dedicated to educating students about personal finances. We are a student-run organization at the University of Toronto that encourages the management of household income and consumer financial services and circumstances; these are essential life skills that are crucial for our day-to-day lives but aren't taught.

Our goal is to bridge the gap between the financial world and the average student life.

SFLC's funds were used to facilitate 13 financial literacy-based events, including 4 seminars, 2 workshops, 2 panels and 5 booth events.

SFLC used its funds to conduct its in-person booths, seminars and panels, for honorarium transactions, to maintain our website and award student prizes for participation as well as conduct team socials.

We held events including: Clubs Fair, Kickoff Event, Funding Your Education, Financial Literacy Month Panel, Financial Literacy Month Booth, Holiday Booth, Investing Night, Budgeting 101, Personal Finance During your Internship, Side Hustles, Operating Expenses, Promotional Materials, Team socials.

Through our events and dedicated content on financial literacy, we have reached 1000+ students on our social media pages and a total of 194 attendees from faculties across the St. George Campus, including students from the Faculty of Applied Science and Engineering, the Faculty of Arts and Science, Rotman Commerce.

The funds were used to maintain our website, which directed students to our content, and events and provided a platform for students to get more involved with the club and its mission as executive or general members. The honorarium has allowed us to involve engineering faculty, engineering alumni, other University of Toronto alumni, and industry leaders to create and spread financial literacy on campus. The funds used for feedback raffle and in-event Kahoot activities improved engaged participation, increased event attendance, and ensured timely feedback on our events. The funds directed towards in- person activities like the booth and giveaways, improved our club's reach, allowing us to engage more people in the financial literacy month content we had planned for the month.

We demonstrated gratitude to our speakers through honorariums.

It's important to SFLC that we show our speakers that we value their effort and time. In this way, we have built meaningful connections with multiple speakers.

SFLC engaged the following alumni for the 2022-2023 school year:

Alumni guests

a. Ginevra Fenton (Delivered seminar at Intro to Insurance Event)

b. Romil Jain (assisted in executing Financial Literacy Month Panel)

Investing Night

From: SFLC x ECC Panel

(From left: Vanessa Boterro, Muskan Malek

Skule French-Speaking Society (SFS)

Total Funding awarded	**$200**
EngSoc	$200

SFS has been very thankful to receive funding for the first time during the year 2022-23. We are a new student-run organization unlike any other at Skule, being that we are the first to welcome French-speaking students from all levels and all societies. Our community has grown through our recruitment and various events held in person at our lovely St-George campus. We have run a Hard hat X SFS Café event, created a French Pen-Pals community and organized French cinema outings/movie screenings with Chem Club. We pride ourselves on our values of being kind, welcoming, respectful, and non-judgemental.

During the fall term, we took advantage of the free French-movie screenings by Alliance Francaise held in Spadina. We waited at Bahen to gather the crowd and then walked while sparking conversations with our fellow attendees. At this time, we did not have funding, but if we did, we would have suggested free TTC and bought food for the attendees before the movie.

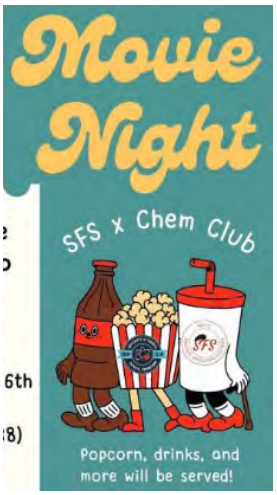
French movie screening

Our next event was a collaboration with Hard Hat, where we printed hand made coupons for tea and coffee. We brought croissants and cookies and held a marshmallow Eiffel tower building competition. During this event, we spoke about our upcoming initiative the Pen-Pals program to connect students wanting to learn or practice their French together. We used the funding to pay back Hard Hat café and to buy the necessary food and items (tablecloths, flowers, small pots) for the event. All the items bought for decorations have been kept safe and will be re-used in the next year if needed.

For our Pen-Pals initiative, our goal was to build a community that also aligns with our values, so we first recruited those interested and created a discord with over 10+ members from all disciplines. During our pen-pals event, we provided food and snacks and prepared icebreakers to facilitate conversations between students. It was overall a lovely event; in the picture, you can see Badr Abbas, Janelle Frias and Aniqa Tahseen, also present was Justin Wang, Gehna Karani and Gabrielle Jean-Pierre.

Pen-Pals initiative

The last event we held was in collaboration with Chem Club where we provided food, popcorn, snacks and drinks to watch the legendary French Ontarian movie called Bon Cop, Bad Cop.



Movie Night Poster

In conclusion, the funding really advanced our organizations' goals and activities, allowing us to contribute to the vibrant spirit of our Skule community and positively impacting the students who have participated. We were very happy and thankful to see great turnouts at our events and to be able to provide a safe welcoming space for all learners and those interested as well as refreshments and food to keep them energized. We look forward to holding more events that can help grow our community and bring us closer to our goals of providing a safe-space for French-speaking students of all levels and societies.

Skule Orchestra

Total Funding Awarded	**$3,900**
BME	$100
ChemE	$100
CivMin	$100
EngSoc	$2,000
DO / EAN	$600
ECE	$400
EngSci	$300
MIE	$100
MSE	$100
YNCN	$100

This year has seen a triumphant return of all in-person rehearsals and concerts for the Skule Orchestra. With CPSIF funding, we have increased our efforts to create a welcoming environment for current students and alumni who enjoy making beautiful music with their peers.

Under the direction of musical director and alumnus Jerry Chiu, the Skule Orchestra wowed hundreds of audience members who packed in to see our November Pops concert, February Chamber Night, and March Boom concert. Later in the season, we invited our members to showcase their talent by performing in small ensembles at our Chamber Night hosted at Hart House. Rounding out the year, our Boom concert presented a masterwork of the classical repertoire in Verdi's Nabucco Overture, complimented by two rare gems: Joachim Raff's Ein feste Burg ist unser Gott and Asger Hamerik's Fourth Symphony.

Boom concert

The production of our three concerts would not have been possible without the incredible support that we have been extremely fortunate to receive. The Skule Orchestra's also currently boast two alumni among our performing members and actively engage with alumni to invite them back into the orchestra's welcoming community.

Skule Ski Club

Total Funding Awarded	**$2,000**
EngSoc	$2,000

The main event run by Skule Ski Club and the destination of the funding we received is the Mont. Tremblant trip. Our club runs a bus from Toronto to Mont. Tremblant and provides hotel suites and ski passes for our members. One of Skule Ski Clubs key goals is to make skiing accessible for everyone in the Skule community. CPSIF helps to subsidize the cost of our ski trip, allowing more new skiers to get involved with the sport we love so much. Without CPSIF, many of our members would not be able to afford coming on our trip, but thanks to CPSIF, we were able to lower costs for some trip packages over the previous year, despite rising costs.

Skule Skiers on top of Mont. Tremblant on the Skule Ski Trip

(From Left: Isaac Wise-Kalant, Aron Lyimo, Lisa Gueseva)

Hannah Gasabeh at Mont. Tremblant

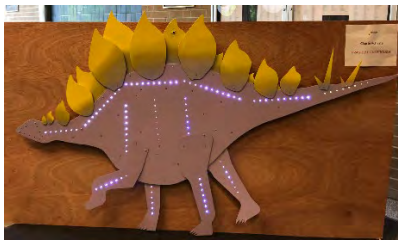
Spark Design Club (SPARK)

Total Funding Awarded	**$1,750**
DO / EAN	$300
ECE	$450
EngSci	$100
EngSoc	$700
MIE	$200

CPSIF supported our mission to provide free hands-on STEM experience and mentorship opportunities for students to build big, bright, interactive displays. During the 2022-2023 year, Spark designed three mechatronic displays from scratch (Figures 1-10), hosted six public workshops open to the UofT community and high school students in Toronto (Figures 12-14), impacting more than 200 students across campus. Spark showcased displays at UofT events such as F!rosh week, Fall Campus Day, Skule 150, and the upcoming Science Rendezvous.

Spark Design Club expanded its team by 40% over the past year, providing 39 engineering students with the opportunity to create three mechatronics displays over the academic year. Students applied their classroom knowledge to design and build a “F!rosh Display”, a clap-activated light-up dinosaur, “Hack-It”, a series of spy-mission challenges with moving mechanical and electrical components, and “3D Gyroscope”, a 1m wide, 3D tilting marble maze. The mechatronic components for these displays, including wood, acrylic, microcontrollers, motors, tools, and PPE were acquired with the funding from CPSIF. We were also able to invest in new tools and equipment that enabled us to increase our efficiency when building future displays. Students developed leadership skills to mentor teammates, overcome technical challenges, and foster creativity at the intersection of art and engineering.

Spark held four public workshops this year - free and open to the entire UofT community - from a PCB etching workshop for students to interact with the physical manufacturing of complex circuits at the intersection of ChemEng and ECE, to a soldering tutorial where we demonstrated the art of electronics assembly, letting more than 40 students customize and assemble their own LED ring lights. In total, we provided these workshops for free to more than 100 students in Skule, KPE, Math/CS and other communities. Funding from CSPIF helped offset costs for PPE, chemicals, PCBs, consumable components, tools and supervision.



F!rosh Display: Clap-Activated Dino

Overall Hack-It CAD Model

Overall Gyroscope Structure CAD Model

Wire Maze CAD and Corresponding Prototype

SPARK Teardown Workshop

Sustainable Buildings Network (SBN)

Total Funding Awarded	**$793.99**
CivMin	$700
YNCN	$93.99

The funding was used to support SBN in two main areas: promotional materials and event items. In the beginning of the school year SBN participated in the UTSU club fair, posters, stickers and a banner were purchased with the funding. We strive for more diversity at SBN, and this event was significant to our club as it allowed SBN to reach a larger student base around campus. Promotional materials were used throughout the school year as well; stickers are handed out to participants at our events, event posters are posted around campus to continue expanding our reach. The funding was significant to our network as it drastically increased our presence at UofT.

SBN participating at UTSU Clubs Fair

(From left: Rose Zhang, Melanie Tham)

This is the first year where SBN held all our events in person or hybrid (online + in-person). Expenses such as room booking fees, refreshments and snacks served during the event were made possible with the CPSIF funding. “Sustainbili-tea Time” is a recurring event organized by SBN where graduate or professors are invited to present their research or field of study that is relevant to sustainable buildings. These events are intended as a networking platform for students to get more exposure about graduate studies. Funding is used to provide tea and snacks in these events to create a more casual atmosphere. Another important event that SBN holds every year is the “Sustainable Buildings Challenge (SBC)”, it is a week-long design competition where teams propose sustainable retrofitting solutions for a residential building. Portions of the funding was used to purchase food for the event, tote bags and notebooks as prizes. This was a very successful event, many industry professionals, alumni were invited and engineering students outside of UofT participated as well.

Sustainabili-tea Time

The winning team with the Judges at SBC.

(From left: Ali Shamsaldin, Jamie Fine, Javeriya Hasan, Eliany Rodriguez, Ike Arzoumanian, Noah Cassidy, and Stephanie Marton)

As a young club (3 years) the funding allowed us to attract students interested in the field of sustainable buildings and get the word out to the engineering community. Ensuring SBN stays afloat in the years to come and continues to gauge the interests of a wider cohort of students. Compared to last year we were able to run more variety of events, invite more alumni from the industry and expanded our reach to students within the engineering community. In past years participants were mainly CIV students, but through promotional merch and the variety of event topics we were able to attract more students from other departments such as ECE, MIE, and Architecture. The SBC event specifically attracted students from other universities such as TMU and Waterloo. The CPSIF funding helped the network achieve its goals of engaging students and made our events and workshops successful. We were able to engage with many more grad and undergrad students and industry professionals by creating a stronger presence in the engineering community at U of T and outside.

Alumni guests:

a. Andres Toro (MEng 2T2)
b. Jaime Fine (MASc 1T4)
c. Noah Cassidy (CIV1T9 + PEY)
d. Jinbo Yu (CIV 2T0 + PEY)
e. Adrian Sin (CIV 2T1 + PEY)

Sustainable Engineers Association (SEA)

Total Funding Awarded	**$5,300**
ChemE	$500
CivMin	$500
DO / EAN	$250
EngSci	$600
EngSoc	$2,000
MIE	$900
MSE	$250
YNCN	$300

Sustainable Engineers Association's (SEA) mission is to increase interest and awareness about sustainability by equipping University of Toronto students with the tools and knowledge to carry out change and development in the field of sustainability. We could not have accomplished this without the generous support of our Centralized Process for Student Initiative Fund (CPSIF) sources, listed above.

With a total funding of over five thousand dollars from CPSIF, SEA executives worked tirelessly this past academic year to host over a dozen events that have allowed us to share with students, staff, and community members the technical aspects of sustainable design, support to develop their own interests, and platforms to network with industry professionals. CPSIF sources helped fund out seminars, career fairs, competitions, conferences, workshops, student projects, and more!

This is the first year since 2019 that SEA is able to host in person events. We combined the lessons learned from the pandemic with previous events to execute optimal experience for every event attendee, which is why we decided to hold our career fair online while our conference in person.

SEA Sustainability Conference

Our annual SEA Sustainability Conference, with the theme being: Back to the Future of Sustainable Urban Development. We hosted over 260 attendees, 35 volunteers, 10 keynote speakers, and several panel discussions to facilitate meaningful discussions on sustainability. This conference involved current U of T students, alumni, industry professionals, and the general public. We directly reached 166 U of T undergraduate students who attended or volunteered, the majority of which were engineering students. We collaborated with Emerging Green Professionals (EGP) Toronto, Global Brigades and the St George Sustainability Office for our conference tradeshow and

connected out students with the larger community.

CPSIF funding was also used to mature our career and mentorship programs and allow SEA to curate opportunities for students to build strong, personal connections within the industry and discover current innovations in different fields. A total of 65 mentees participated in our Mentorship Program and we included over 39 alumni, professionals, and students as mentors for our year-long Mentorship Program. We help mentoring and career events that included representatives from Deloitte, Hatch, Ecobee, WSP, Tridel, RWDI, consulting companies, NGOs, and graduate institutions. This allowed students to engage in insightful conversations with both industry members and sustainability enthusiasts. A notable collaboration is SEA's partnership with 2 other U of T engineering clubs, Women in Science and Engineering (WISE) , and Global Engineering (GE) Week. The three clubs together planned the International Women's Day Gala to celebrate the accomplishments of women everywhere. We also hosted a Waste Workshop with a panel of professionals working in waste management to discuss their areas of work, the future of municipal waste and technological waste.

We had several alumni participate as mentors and workshop speakers, and SEA will continue to engage a significant number of alumni in the upcoming years. We have made this a larger focus of our club for the upcoming academic year and will take care to note their SEA involvement.

We developed new partnerships with Committee on Environment, Climate Change, and Sustainability, where we started hosting sessions to encourage our student members to get into Sustainability Citizens Programs.

Another way SEA engaged students within our own University of Toronto community was through reutilization of the undergraduate engineering student's experience through first-hand design experience. We advertised our student projects through newspaper publications, informational videos, and collaborations with other engineering organizations like the Canadian Association of Food Engineers. One of our Student Projects team analyzed building operations and investigated the energy usage of the Mechanical Engineering Building. We partnered with the U of T Sustainability Operations and Services to generate structural simulations and energy models of the floors to learn about building science and energy engineering. Another Students Projects team looked into ways excess biodiesel generated from chemical engineering labs can be utilized to reduce chemical waste from teaching laboratories. After considering purification methods and potential buyers, excess biodiesel from chemical engineering labs were used as a lubricant for on-campus design teams. This project continues to be developed with supervising faculty members for the future continuation of the labs.

To conclude, none of these innovative projects could have happened without the generous support from the CPSIF sources, and we are grateful for everything you have contributed to enrich our campus. Thank you.

Troitsky Bridge Building Team

Total Funding Awarded	**$4,200**
CivMin	$1,000
DO / EAN	$1,500
EngSci	$200
EngSoc	$1200
YNCN	$300

The Troitsky Bridge Building Team, consisting of over 40 members, participated in Concordia University's annual Troitsky Bridge Building Competition in Montreal, Canada. The competition had over 250 participants from 10 universities across Canada, and this year marked the first in-person event in the last three years due to the pandemic.

As it was the first year back, our team had to start from scratch and relearn the procedures and building techniques. We had to explore different methods to create the 1-meter-long bridge required for the competition. Additionally, we held workshops and events to teach AutoCAD, structural design, an overview of bridge types, and other interactive events. These workshops were made available on the team's Youtube site and Discord platform, and anyone in the community could access them.

The CPSIF funding played a significant role in expanding the number of team members attending the competition. We used the funding to purchase equipment and materials and partially subsidize registration fees. Since there were no previous materials or equipment, we had to purchase essential tools and materials such as clamps, wood for formwork, and hand tools. This year, we used over 50 thousand popsicle sticks to construct our six bridges. The CPSIF funds also made it easier for people to join and take advantage of this competition without monetary position interfering with it.

One of the UofT Bridges being tested under the hydraulic press at Concordia University

Overall, the competition provided team members with invaluable design, construction and engineering experience, creating a teamwork-oriented environment. With six sub-teams working on individual bridges, communication was key, and we applied the aspects learned in classes such as solid mechanics, statics, and more to create our structures. The build sessions and the competition were a great opportunity for upper and lower-year students to bond, create friendships, mentor, and share advice with other students within the community. The

competition was also an excellent opportunity to showcase school spirit, compete in an engineering setting, and network. The career fair and other social events held during the competition exposed students to various engineering companies and representatives provided a deeper understanding of the Civil Engineering field and other engineering programs and allowed them to connect and share experiences with fellow undergraduate students.

UofT Troitsky Team at the Banquet Reception in Montreal

The experience resonated with all team members, and everyone is looking forward to participating in the 2024 competition. The stories and pictures from this year have boosted interest from others to join Troitsky this year as well. Although alumni were not involved in the team's activities this year as it was a reboot year, there will be a higher emphasis in the new year to hear their industry and professional knowledge through events, workshops, networking events, and design chats planned throughout the year

UofTHacks

Total Amount Awarded	**$3,050**
DO / EAN	$250
ECE	$500
EngSci	$500
EngSoc	$1500
YNCN	$300

Our event relied heavily on funding from the Engineering department to be able to host a successful event. Our budget for venue, food, merchandise, and prizes totalled to around $31,000, and the funding from the engineering department helped us to subsidize our prize costs greatly. Our overall hackathon prizes were Meta Quest 2 VR Headsets (4), Sony XM4 Headphones (4) and Amazon Echo Dot 5 (4) for first, second, and third place winners respectively. This totalled to around $4040 in prizes. Due to the engineering funding, it helped us to reduce the cost to $990.

Our club aims to increase the professional and technical development of students in university by exposing them to a competitive environment and presenting them with a challenge. Given 36 hours to code a solution to this challenge, we hope to enhance innovation, by providing workshops, mentorship and company sponsors to help develop a project and learn new technological frameworks to explore their innovations further. Students are then judged by actual industry professionals, where they are given an opportunity to present a five-minute pitch. Working towards a prize helps to further motivate these students, as they all compete to receive these prizes.

Image from the opening ceremonies at UofTHacks. There were 500 people present at this ceremony. The ceremony was led by Srinidhi Shankar and Tasnim Reza, and the guest speakers were Nick Froster (Founder of Co:here and UofT alumnus), and Ayush Kumar (Software Engineer at Protocol Labs and UofT alumnus)

Through helping us to subsidize the cost of the prizes, our team was able to provide the best possible prizes within our budget, and the students were shown to be very eager to work towards them. We were also able to provide additional challenges. Our team wanted to increase the amount of female participation within our event, so we created an additional challenge with a prize of $50/ team member to promote female empowerment where the prompt was “Best Hack to Promote Female Empowerment within STEM”. We also required that the team had a majority female identifying team to be able to submit to this challenge. We were able to afford these prizes since the engineering department was able to subsidize the cost of the other prizes. We saw a huge increase of female participation this year due to this challenge, and our team was thrilled to see this change.

Image of students at the sponsorship booths at UofTHacks, where they were able to network with companies, and learn about future opportunities for employment.

Our team was given the honour of engaging with multiple alumni throughout our event. During our opening ceremonies, we had Nick Frosst as a keynote speaker, who is an alumnus from UofT, and the co-founder of Co:here, on Friday, January 20. He was also present as a sponsor representative on the other two days of our event. The other two co-founders, Ivan Zhang and Aiden Gomez participated by hosting an API workshop at our event on Friday, January 20, and were present throughout the rest of the event as sponsor representatives. Ayush Kumar was another keynote speaker on Friday, January 20. He is also an alumnus from UofT, who hosted a workshop on Saturday, January 21, and was present throughout the entire Saturday and Sunday of the event as a Protocol Labs sponsor representative. Other alumni from his team like Corinne Bernett were also present for all three days. Dean Yip was present on Sunday, January 22 as our closing ceremonies keynote speaker.

UofTHacks inspires students worldwide to become innovators and showcase their technical capabilities. We would like to wholeheartedly thank the Faculty of Applied Science and Engineering for your continued support and funding to help us make our event a success.

Picture of the UofTHacks team after closing ceremonies. Names from left to right:

Top row: Harshit Sohaney, Anipreet Chowdhury, Gunin Wasan, Lalith Elangovan, Azhan Gillani, Shreyaansh Dadoo, Rue Sriharsha, Anne Hu, Yannick Longval, Laksumi Somaskandamoorthy

Middle row: Prarthona Paul, Maggie Ye, Shernan Javier

Bottom row: Richie Kong (Vice President of Design), Tasnim Reza (Vice President of Logistics), Srinidhi Shankar (Vice President of Sponsorship), Allen Lu (Vice President of Web Development)

Undergraduate Chemical Engineering Council (Chem Club)

Total Funding Awarded	**$2,200**
ChemE	$1,000
DO / EAN	$1,000
YNCN	$200

Chem Club (The Undergraduate Chemical Engineering Council) is the student council for Chemical Engineering students at the University of Toronto. We help to bridge the gap between students, faculty, and the Skule™ community. Some of the things we do are: host events throughout the year (class parties, ski trips, the annual Dinner Dance), help transition first year students to university through our mentorship program, and are responsible for the Undergraduate Chem Common Room (WB 238).

Academic Events

Chem Club's academic events included town halls that happened to garner feedback from students about their courses. Many students attended the town halls to share their midterm feedback with the professors and department. In addition, 4th year students shared their overall feedback on the curriculum to help the department with their curriculum modernization work.

Moreover, our team conducted a number of midterm review sessions for MAT186, MAT187, and CHE112 for first year students. There was a large attendance by everyone and the sessions were well received. Pizza and drinks were provided to students who attended.

Chem Club ran a number of events throughout the year focused on wellness, including destressors, information sessions about accessibility services, mental health funding. Funding was used to provide refreshments and prizes for attendees to encourage attendance and knowledge retention from our events.

Further we ran physical wellness events including capture the flag, skating at the Bentway, and planning towards our annual ski trip which was canceled due to inclement weather.

The Annual Chem Dinner Dance is the largest event the club hosts. Majority of the funding is allocated towards this event. Costs included the venue, transportation, photography, music, decorations, and more. Planning was spearheaded by the social directors and dinner dance committee composed mainly of second year students. Over 240 tickets were sold making this the largest dinner dance in recent years.

Graditude and Iron Ring Party

The 2023 Graditude Campaign was one of the most successful in Chem Club history. $2639 was raised prior to the Iron Ring Party. Sources of funding came from generous student donors and Chem Club initiatives such as the Pool Ladder. The Iron Ring Party was a grand spectacle and a fun event for the graduating 2T2+PEY/2T3 class. . Activities included an opening song by Prof. Galatro, superlatives, Prof. Farnood dancing in a dinosaur costume and an auction. $1461 was raised at the auction making total Graditude influx being $4104.

The common room is the main hub of the Chemmunity with many events happening here. Many ChemE students use this space for socializing, playing video games, foosball, ping pong, and pool, or to study in the evening. For Halloween, the club decorated the common room with halloween decorations and distributed candy to celebrate the event. In addition, with funding the club purchased a replacement foosball table and Nintendo Switch to improve amenities available for students.

Our mentorship program pairs first year students with upper year students while also holding other events throughout the year. Over 30 incoming students were paired, giving them an opportunity to learn how to climb the ropes of university life and gain advice. A F!rosh Week event, speed friending events, destressors and other socials were planned to facilitate mentor-mentee interactions.

The Chembook is Chem Club's annual yearbook showcasing the Chemmunity and events we run throughout the year. Over 160 copies of the Chembook were printed for distribution containing photos, student quotes, and messages from faculty and staff. The Chembook serves as a lovely time capsule for Chemmunity each school year. An online version of the Chembook can be found here.

Each year Chem Club creates a video to showcase the Chemmunity which is played at the Dinner Dance and Departmental Dinner. The Video committee rallies students to film and edit the video showcasing as many students as possible. The video can be viewed here.

This year Chem Club expanded with a new role named International Inclusivity to increase events catered to international students. This year the club kicked off this portfolio with a mixer and movie nights to showcase different cultures.

Numerous other Chem Club events provided opportunities for community bonding and de-stressing during the year. These included Godiva week events and participation in the annual Godiva's Chariot Race. Chem Club capitalized on the Fifa World Cup and hosted watch parties for the Canada matches and final match. Class parties helped to promote class bonding and alleviate student stress during the midterm season. We hosted a Cafe Disco modeled off the sitcom *The Office*. Finally, a new set of Chem Eng sweaters and totes were designed and sold to the Chemmunity.

Godiva week

University of Toronto Aerospace Team

Total Funding Awarded	**$10,550**
ChemE	$500
DO / EAN	$4,000
ECE	$1,700
EngSci	$1,000
MIE	$2,600
YNCN	$750

The University of Toronto Aerospace Team (UTAT) has successfully rebounded from the impact of COVID-19 and is now maintaining a strong momentum of activities and achievements. The four divisions—Rocketry, Space Systems, Aerospace Policy, Unmanned Aerial Systems—continue to drive our success and progress in the field of aerospace. Thanks to the unwavering support from our sponsors, such as CPSIF, we remain dedicated to promoting innovation and pushing the frontiers of aerospace technology.

The Rocketry Division focuses on designing and manufacturing a variety of rocket types. We successfully closed out Phase B and held our preliminary design review for our liquid rocket,

Houbolt Jr. This event was attended by expert advisors from prominent organizations such as *CSA*, *Launch Canada*, and *MDA*, who provided invaluable input on the project. Additionally, we made significant design improvements to our hybrid rocket, Defiance Mk. III and are currently in the process of manufacturing and preparing for its launch at *Launch Canada*. While not strictly within this year, it is worth noting that last summer, we achieved a significant milestone when Defiance Mk. II became the *first* ever experimental hybrid launch in Canada. Furthermore, we are proud to announce that 18 of our members are in line to receive their Tripoli L1 rocketry certifications, demonstrating the dedication and growth of our team.

Akhil Ambardekar (Left) and Liam Xue (Right) conducting a flow visualization test for our rocketry team

The Unmanned Aerial Systems (UAS) division primarily focuses on working with unmanned aerial vehicles (UAVs), encompassing both fixed-wing and multi-rotor variations.

In the UAS - ADR subdivision, we conducted a 3-month workshop on ROS and fundamental robotics knowledge for over 20 students. The team designed an onboard localization system for FPV drones based on EKF, developed an autonomous racing control algorithm, and verified it in simulation. We are currently preparing for the upcoming ADR competition in 2023.

In the UAS - AEAC subdivision, the team built and flew Cyclone, a 14 kg hexacopter designed

for a moderate payload and long range. They achieved 2nd place in the Phase 1 design report and 3rd place in the Phase 2 presentation, while also flying in all competition flight windows at the *AEAC National Annual UAS Student Competition* in Alma, Quebec.

The UAS - SAE subdivision focused on the clean-sheet design and fabrication of three vehicles for the *SAE Aero Design West - Advanced Class* competition for a simulated wildfire response mission. These vehicles include a primary aircraft with site targeting capabilities and payload stores, a payload delivery aircraft with the capability of in-flight jettison and autonomous landing, and a ground transport vehicle with autonomous guidance. The team submitted a design report and presentation as competition deliverables and successfully carried out test flights. Throughout these projects, the team made significant improvements to our in-house aircraft design algorithms and manufacturing techniques.

Jeeyeoun Chae (Left), Terrence Zhang (Middle) and Alex Zhang (Right) making modifications to Cyclone during the AEAC competition for UAS

The **Aerospace Policy** Division is dedicated to researching and developing professional and conference papers that aim to raise awareness about the policy dimensions of the aerospace industry. Our aerospace policy podcast gained significant traction, reaching over 100 subscribers, and even making an appearance at the SEDs Canadian Space Conference. In addition, our team was accepted to prestigious events such as the *AIAA Aviation Forum*, where we presented a paper titled "Assessing Energy Efficiency of Unmanned Aircraft Systems (UAS) Integration in Applicable Operations." Although we were accepted to the *SpaceOps* conference, we ultimately withdrew due to timeline issues. Nevertheless, we are proud to have been accepted to *IAC 2023*, where we will present a paper titled "Revisiting the Moon Agreement: Analyzing 45 Years of Policy and Legal Trends Through the Lens of NewSpace Commercialization."

Natacha Hughes (Left) and Dominik Adamiak (Right) at COSPAR Conference

The **Space Systems** Division excels in designing satellites that are launched aboard rockets into space, where they carry out a range of missions. This year, our team has made significant progress in various aspects of our projects. Our abstract submission on the thermal nodal model was approved for presentation at the *SmallSat 2023* conference, showcasing our research and expertise. We have also confirmed the launch of HERON Mk II for September, marking an important milestone for our division as the first satellite we have launched into space. In addition to our technical achievements, we have successfully conducted two high school outreach workshops, fostering interest in the field, and engaging with the next

generation of aerospace enthusiasts. Moreover, we have completed Phase B of the design for FINCH, selected our imaging site, and started coordinating with AAFC on ground truth data collection, ensuring the project's continued progress and success. Space Systems also represented our entire team at the *Space Exploration Conference*, connecting with other design teams such as ourselves and explaining the work we are undertaking for our FINCH mission.

Clubs Fair display

Apart from the divisional project work, the team is constantly broadening its outreach initiatives, aiming to enhance the accessibility of STEM, particularly for underrepresented groups, by engaging in educational and community events. Our **Outreach Portfolio** consists of a diverse range of events and collaborations aimed at engaging various audiences. We have hosted workshops at the *WISE* (Women in Science and Engineering) high school conference, the *NSBE* (National Society of Black Engineers) conference, and the *EWB YE* (Engineers Without Borders Youth Engagement) *Innomasters*. Furthermore, we set up booths at both *Fall Campus Day* and *Science Rendezvous 2023* to engage with kids in both high school and elementary school respectively and help to spark their interest in the field of aerospace. Our team also visited a local Air Cadet squadron to share our knowledge and experiences working with fixed wing drones.

UTAT booth for Science Rendezvous

(From Left: Kevin Vossen, Vlad Surdu, Jeremy Lim, Alex Zhang, Terrence Zhang)

In addition, our team was an active participant of the University of Toronto's Engineering Society. We were present at the Skule 150 Gala and Founding Day with displays showcasing our team's current and historical work. We also participated in Engineering Frosh Week by hosting an engaging game as well as submitting video content showcasing design teams. Lastly, we connected with the Engineering Career Centre to discuss ways to increase aerospace employment opportunities for UTAT members at the *Better Together: Engineering Club Mixer* hosted by the University of Toronto Engineering Career Centre.

The remarkable efforts of our dedicated community and the generous support from CPSIF have enabled UTAT to grow and transform what was once deemed impossible for students into sustainable, successful aerospace operations. We are deeply grateful for the support we receive as we strive to expand our impact through outreach and advocacy.

UTAT appreciates the strong relationships and partnerships we have forged with various

stakeholders over the years, including student governments, faculty members, professors, and alumni within the U of T community. Every year, we maintain connections with U of T Engineering alumni who volunteer their time as advisors and mentors, attending design reviews, offering valuable input, mentoring new students and leads, and participating in numerous UTAT events. One example is that we were once again able to host our *Annual Aerospace Showcase* on January 28th. This event is a yearly, public event we host to talk about the progress our team made on the various projects we are undertaking, as well as to raise interest in aerospace and aerospace design. This year, we had three alumni, Jeremy Wang, Michell Passarelli, and Nicholas Guglielmin, participate in a speakers panel, where they discussed their memories at UTAT as well as how UTAT and the University of Toronto helped them succeed in their future careers.

In the coming year, UTAT looks to continue delivering on its commitment to providing students with an unparalleled experience in aerospace design through strengthening the external connections we have developed with various partners and optimizing our internal operations for more efficient team management. This will further the team's mission to provide unwavering support, opportunity, and training to its expanding community of students and volunteers. The entire team is looking forward to another exciting and successful year! For updates and more information, visit our Instagram (@uoft_aerospaceteam), our Facebook page (@uoftaerospaceteam), our website (utat.ca), or email execdirector@utat.ca.

University of Toronto BizTech Association

Total Funding Awarded	**$525**
DO / EAN	$125
ECE	$100
EngSci	$100
YNCN	$200

We are grateful to receive funding through CPSIF for the 2022-2023 academic year. We are still a new club, established in 2021, and our goal is to enable students to navigate the intersection of technology and business in the career building space. This year we used our CPSIF funding primarily to help host events, build our online presence, run our mentorship program, and launch a podcast. We considered this year a great success, building upon an outstanding first year of club activities, and look forward to carrying this momentum into future years.

Highlights of this past year include: a career mentorship program with a cohort of 20+ students and 13 academic programs; excellent online and social media growth and reach with thousands of impressions; and the hosting of three engaging events. Our first event of the year, Introduction to Product Management, was facilitated by two UofT alumni, including one graduate from the Department of Mechanical and Industrial Engineering who is an ex-member and is currently in a BizTech role in industry.

Introduction to Product Management Session

We also launched a podcast, called “Breaking the Barrier”, focused on conversations with BizTech professionals which has been well-received. The launch of our podcast was a bold move by our content team this year, and we believe that given the popularity of the medium that this is a strong path forward to maximizing engagement with fellow students looking to explore the BizTech world.

The funding that CPSIF has provided us this year allowed us to host these incredible events and provide outreach and exposure to a variety of students in accordance with our goals. For evidence of our impact look no further than the fact that previous club members and mentees have worked for top global brands including IBM, Blackberry, Zynga, PwC, Scotiabank, KPMG, Deloitte, and TD Bank. We are truly excited for what has been achieved this past year, and what will be achieved in future years. For that, we thank the CPSIF program for making it possible.

University of Toronto Business Association (UTBA)

Total Funding Awarded	**$1,200**
ChemE	$100
DO / EAN	$500
ECE	$100
Eng Sci	$200
YNCN	$300

The support secured from CPSIF was of upmost importance for the success of University of Toronto Business Association activities throughout the 2022-23 academic year. These funds were allocated towards funding the key operational expenses associated with the execution of the speaker series and conference series events organized by the club. Examples of these events include our Breaking into Investment Banking panel event and the Digital Strategy in the Post-Pandemic Era novice case competition. In particular, we used CPSIF funding to pay for expenses related to room booking, audio and video equipment rental, moving services, food and beverages, speaker honorarium, and more. UTBA would have not been able to organize and execute these large-scale events without the monetary support of CPSIF. Furthermore, the above events provided unique opportunities for students from a range of backgrounds, including those who are part of the Skule community, to learn about different fields of business as well as to forge meaningful

connections with peers and industry professionals. In addition to undergraduate students, these events were also open to graduate school students and University of Toronto alumni. Moreover, some of the representatives in these events were also part of the alumni community.

Breaking into Investment Banking Panel

University of Toronto Chemical Vehicles

Total Funding Awarded	**$6,600**
ChemE	$1,000
DO / EAN	$1,300
ECE	$1,200
EngSci	$300
EngSoc	$2,300
MIE	$200
MSE	$100
YNCN	$200

University of Toronto Chemical Vehicles (UTCV) is a multidisciplinary design team where students collaborate to build a small, autonomous vehicle that is both powered and controlled by the use of a chemical reaction. Each year, we compete in the Chem-E-Car competition organised by the American Institute of Chemical Engineers (AIChE)

The Reactions division of UTCV preparing to run the car at the 2023 Chem-E-Car regionals.

(From left: Michael Chan, Kalli Alikakos, Edward Lombo, Fred Feng)

This academic year, having won the Northeast Regionals in April 2022, our team travelled to Phoenix, Arizona in the United States to compete in the international final round, against teams from all over North America as well as China, India, South America and the Middle East. We placed 8th out of 39 teams, and in a subsequent virtual re-run (scheduled due to a logistical mishap at the Phoenix competition) placed 2nd out of 21 teams, finishing close behind Nanjing University of Science and Technology.

After making drastic improvements to the structure and functionality of our design, we then entered the 2023 Chem-E-Car regionals at McGill University, Montreal, where we won a second time, outdistancing competitors by a wide margin.

UTCV first competed in the Chem-E-Car regionals in 2018 and placed 9th out of 21 teams. In 2019, we reached 6th out of 12 teams. Our consecutive wins in the last 2 years firmly established U of T as a strong competitor, and gave us the chance to prove ourselves as a cohesive and technically strong team. We have great hopes of continuing our success and expanding into new areas in the coming years. This year, we also saw our membership nearly double, and giving our members the best possible learning and team building experience will continue to be a priority going forward. This year's Montreal trip was the first opportunity that general members had to participate in an in-person competition since 2019, and the experience was thoroughly enjoyed by all.

UTCV poses with their awards from the Chem-E-Car regionals.

(From left:: Fred Feng, Emilie Nelson, Edward Lombo, Kalli Alikakos, Dina Castelletto, Gurjas Chawla, Reina Li, Michael Chan, Freddie Perera, John Hiscock, Niroshini Muniandy, Laszlo Toth, Lucas Hyvarinen, Lisa Zhou, Serena Zhang, Rachel Xie, Prof. Cathy Chin, Zhiming Zhou, Mariam Itani, Ghida El Bsat, Joyce Qian.)

During the 2022-2023 academic year, the club's 4 divisions collaborated together to design, build, and test our final competition car, as well as make continual improvements to the design. These divisions are: Power, Reactions, Mechatronics, and Operations. The support that we received through the CPSIF made it possible for these teams to operate to the best of their ability and achieve our goals.

Preparation of our car's chemical battery at the Chem-E-Car in Montreal.

(From left: Laszlo Toth, Niroshini Muniandy, Fred Feng.)

The funding provided from CPSIF allowed the UTCV to purchase essential materials for building the car, such as copper mesh and carbon black used in the car's battery (Fig. 3). It allowed us more scope when conducting research, letting us try more design iterations to attain the objectives that we set without any undue financial stress that would otherwise have hampered our progress. The funding we received also enabled us to purchase resources that went towards giving members a better hands-on experience, such as improved Personal Protective Equipment (PPE) and better equipment (such as our new 3D printer, automatic pipettes and stirring setups). This also included essential electronics, such as the sensors that are needed for the stopping mechanism of the car, and Arduino boards which were used to control our overall circuit. This year, motivated by a rule change in the competition that prohibited manual chemical injection, we designed a sophisticated auto-injection mechanism - this too was made

possible by the financial support that we had from CPSIF.

On the 30th of March 2023, we also sent a small delegation to the 2023 ChemE Exhibition & Dinner to present our successes in 2022 (Fig. 4 & 5). Our team was limited in size since this conflicted with the Chem-E-Car competition which began the same day in Montreal. However, our delegation did well in showcasing our design and poster to guests and handed out promotional postcards to professors and alumni that attended. It was a great opportunity for the team to gain more recognition and network. Jinmyung Jang (UTCV President 20/21, ChemE 2T1+PEY), now a consultant at Hatch, attended in person and supported the team. The event enabled us to secure a sponsorship deal with Hatch through our alumni network, for which we are very grateful. As a team, we would love to stay connected with past members and share our journey and growth.

Tyson Zheng (right) presenting our 2022 poster to interested guests at the ChemE exhibition

Aleksey Goroshko (left) explaining our chemical calibration system to Prof. Jennifer Farmer (right), Associate Chair, Department of Chemical Engineering

UTCV keeps expanding its membership and reputation within the ChemEng student community - and indeed the engineering student community at large - and we aim to fulfill our goal of offering true multidisciplinary design experience for engineering students. We are confident that our efforts this year have only led to more students being interested in being a part of what we do. We will continue to expand our student engagement, and continue to work on collaborating with alumni in order to foster professional development. We hope to inspire more students to contribute to a better future where transportation is no longer dependent on fossil fuels.

University of Toronto Concrete Canoe Team

Total Funding Awarded	**$4,050**
ChemE	$200
CivMin	$1,000
DO / EAN	$1,500
ECE	$500
EngSci	$300
MIE	$500
MSE	$50
YNCN	$500

The University of Toronto Concrete Canoe Team is grateful to receive the CPSIF 2022-2023 funding that led to the construction of our 2023 canoe “Incognito”, which had tremendous success in the Canadian National Concrete Canoe Competition (CNCCC) 2023. Despite the misfortune of our canoe cracking while moving from Myhal Arena, the team overcame numerous challenges and obstacles to achieve amazing results at the CNCCC 2023. The team achieved Eight Place overall with First Place in Project Proposal at the CNCCC 2023.

First Place in Project Proposal at Western.

The mold this year underwent in-house Computerised Numerical Control (CNC) processing to achieve high accuracy of the designed shape in collaboration with the U of T Human Powered Vehicles Design Team.

However, as this process was a steep learning curve, the team made minor damages to the CNC table. With CPSIF funding, the team is able to cover the repair costs and gain valuable experience from this. Obtaining in-house CNC skills was extremely beneficial for the team as it allowed us to gain a technical edge, which appealed to students in other engineering disciplines. This contributed to having such a diverse team and saved the team one of the most expensive buffers in the canoe construction process, allowing the team to conduct Casting Day a month earlier than planned.

In light of various rule changes and restrictions, the team was unable to use pre-existing concrete mix materials this year. Materials, such as admixtures and pigments, and others, such as buckets and concrete mixing PPE, had to be purchased.

Wet sanding at Myhal Arena

After being relocated from 704 Spadina to Myhal Arena, the team had to find a new location for sanding work. Considering last year’s unsafe weather conditions at the South

of the Wallberg Building, the team conducted wet sanding indoors at Myhal Arena with the help of faculty and facility members. Safety was an important focus this year, the participating members for wet sanding underwent mask fitting appointments and online respiratory training courses to be eligible to sand indoors. Extensive research was also carried out to protect our members from any possible airborne particles released during sanding as a precaution. The CPSIF funding enabled us to make additional PPE purchases for a more secure work environment, such as shoe covers, gloves, and coveralls.

Race Day with Polytechnique's 2017 canoe

February 4th 2023 was Casting Day where the team casted all the concrete for the canoe construction in a single day. CPSIF funding was used to purchase some of the PPE, concrete materials, and energy boosters (food and drinks) used on that day. Over 40 people in the Skule community participated in the 13 hour event. Many general members, alumni, and post-grad students came to help out for the lively event. Members were also able to experience concrete mixing (with provided PPE) and understand the different aspects of the team. The overall casting day experience was also a celebration of Skule spirit where we gathered undergraduate and graduate students from all engineering disciplines to collaboratively complete the canoe construction.

Overall, the CPSIF funding allowed the University of Toronto Concrete Canoe Team to finance materials and tools needed to safely construct Incognito the concrete canoe, and achieve great results at the CNCCC competition. The funding was important to resurrect the Skule spirit through the design team competitiveness and experience of teamwork across various engineering disciplines. The CPSIF funding also enabled events to engage with alumni and industry professionals for networking and demonstrating how the engineering training learnt in school is practical in a real world construction setting.

Team dinner at competition.

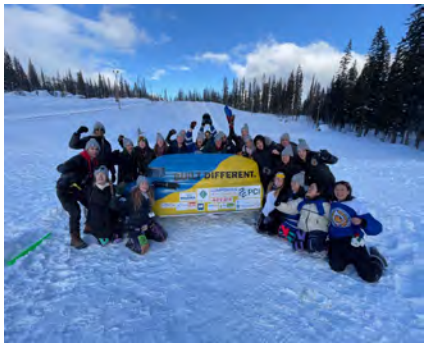
*(**From top left**: Elliot, Jia, Sharanpreet, Izza, Iris, Aryan, Jenny, Ellen, Leonardo, Angela, Andre, Madeline)*

University of Toronto Concrete Toboggan Team

Total Funding Awarded	**$6,600**
CivMin	$2,000
ChemE	$200
DO / EAN	$1,000
ECE	$400
EngSci	$250
MIE	$2,000
YNCN	$750

The 2023 Competition team showcasing their theme: Ikea Bogg!

The University of Toronto Concrete Toboggan Design Team is immensely grateful for the support that CPSIF gives our team. As a student design team, our success is directly dependent on the support we receive from students, faculty, and alumni. This year's support directly correlated to the team's accolades: we won 1st place in the fastest run, king of the hill, and 2nd overall for the entire competition.



The 2023 Competition team celebrating after getting 1st place in the toboggan races at GNCTR 2023.

The Concrete Toboggan Team provides an opportunity for interdisciplinary collaboration for students. Students gain experience in structural, mechanical, and civil engineering applications that would not otherwise receive from the classroom. They also receive valuable soft skills such as project management, budgeting, and sponsor outreach.

Lindsay Wells and Maggie Ye preparing the mould for the carbon fibre layup

We are the only team at the Great Northern Concrete Toboggan Race (GNCTR) with a carbon fibre shell that completely encloses our five riders; carbon fibre is an expensive material,

and its use is only due to the support that CPSIF gives to the team. The shell not only greatly improves the safety of our riders, but it also gives our team an edge over other schools as we get the opportunity to take aerodynamics into account in our design. Our team members get the opportunity to design for aerodynamics. Any student who comes to our manufacturing events also gets the opportunity to work with, and learn about, carbon fibre; something they normally would not be able to get without large financial support.

The uniqueness of Concrete Toboggan comes from the spirit aspect of our design team. Spirit of our team is an active grading component at competition; support from CPSIF enables us to subsidize the costs of attending competition for our members and allows them to attend and represent their university (and showcase our Skule Spirit) to the fullest. At competition, the team gets valuable bonding time with each other as well as with other teams. A favourite motto at GNCTR is "we are all best friends" to showcase the camaraderie shared at competition.

The 2023 University of Toronto Concrete Toboggan Design Team's Toboggan affectionately nicknamed Svetlana

Concrete Toboggan prides itself on its close knit community. This community goes well beyond graduation as alumni consistently come back to help the team out and share in its success. During the design process, Mark McCutcheon came out to see the team's progress and help us with the use of Carbon Fibre. Additionally, we invited alumni to come share in our success and meet with members of the team after we returned from competition.

Alumni guests:

a. Mark McCutcheo
b. Jon Peri
c. Elizabeth Gagnon
d. Leah McCleod Damers
e. TJ Price

The team looks forward to continuing this tradition and introducing new traditions to continue with the involvement of an extensive alumni network.

University of Toronto Cybersecurity Student Association

Total Funding Awarded	**$685.14**
DO / ECE	$500
EngSci	$100
EngSoc	$42.57
YNCN	$42.57

Our Cybersecurity Alumni Panel which featured Four UofT Alumni (one "alumni" due to graduate in 2023) specialized in cybersecurity.

(From left, Maryam Younis, Club President; Julian Sequeria, Aryan Thakur, Alex Caton, Arash Gholami, our 4 speakers; and attendees.)

The University of Toronto Cybersecurity Student Association extends its heartfelt appreciation for the support and funding provided by CPSIF during the 2022-2023 academic year. As a newly established student-run association, our core mission revolves around fostering cybersecurity awareness among students and providing them with valuable resources and events to enhance their knowledge in the field.

Thanks to the CPSIF funding, we successfully initiated our online presence, establishing a reputable name within the University of Toronto community and among industry partners. This accomplishment played a pivotal role in connecting students who share a passion for cybersecurity, allowing them to collaborate, learn, and grow together.

In line with our commitment to offering diverse opportunities, we collaborated with Microsoft to launch Microsoft CONNECT, a 6-week cybersecurity program exclusively for UofT undergraduates. This event provided students with an immersive experience in the world of cybersecurity while allowing them to develop their skill set and connect with leading cybersecurity employers. By partnering with industry experts, we ensured that our members had access to invaluable resources and networking opportunities, equipping them with a competitive edge in their future careers.

Additionally, we strategically allocated a portion of our funding to host a cybersecurity alumni panel in the Fall. The funds were used to cover the costs of refreshments, including drinks, and food, as well as meaningful gifts for our esteemed speakers. This event proved instrumental in guiding students who were exploring the field of cybersecurity or seeking to specialize further, expanding their knowledge, and offering valuable insights into various career options, aligning with one of our club's primary goals.

Furthermore, we organized a Python keylogger workshop during the winter, exclusively for

educational purposes, where we emphasized the ethical use of such tools within the undergraduate community. This workshop served as a valuable learning experience, enabling students to gain hands-on knowledge while understanding the responsible applications of these tools.

Another significant utilization of funding occurred during our participation in the EngSoc Club fair. To promote our club's mission and engage with undergraduate students, especially those unaware of the importance of cybersecurity, we invested in stationery items like poster boards. These materials effectively conveyed our message, capturing the attention of numerous students and enlightening them about the field of cybersecurity and the opportunities available through our club.

Through strategic funding allocations, we not only facilitated meaningful events but also actively worked towards our overarching objective of increasing awareness among students about the vast opportunities and potential career paths within the realm of cybersecurity. By leveraging partnerships, providing educational workshops, and engaging with the wider student body, we are successfully fulfilling our mission of fostering a cybersecurity-conscious community at the University of Toronto.

Our club engaged with alumni in our alumni panel back in the fall, specifically October 21, 2022.

Alumni guests:

a. Julian Sequeria (Computer Science 2T0)
b. As a Security Research & Development at RBC, Julian has experience in IAM, application security, and teaching. He also enjoys building web apps and writing about tech.
c. Alex Caton (Computer Engineering 1T9)
d. A technology specialist at Telus for over two years, Alex has been involved in many specialties of cybersecurity such as fraud analysis and cybersecurity operations.
e. Arash Gholami (Computer Science 1T9)
f. Currently pursuing a master’s degree at Queen's University in cybersecurity research, and having worked as a security engineer at Amazon Web Services (AWS), Arash shares insights to both his industry experience and research specialty.
g. Aryan Thakur (Computer Science 2T3)
h. Having pursuied a bachelor’s degree in computer science, Aryan was a cybersecurity consultant at KPMG, and has completed a co-op term as a cybersecurity analyst at RBC.

All of our alumni participated in the capacity of speakers for our event.

University of Toronto Design League (UTDL)

Total Funding Awarded	**$10,900**
DO / EAN	$500
ECE	$500
EngSci	$500
EngSoc	$750
MIE	$8,000
YNCN	$400

The University of Toronto Design League (UTDL) greatly appreciates the contributions from the following organizations and divisions: the Department of Mechanical and Industrial Engineering (MIE), Division of Engineering Science (EngSci), Department of Electrical and Computer Engineering (ECE), Department of Material Science and Engineering (MSE), the Engineering Alumni Association (EAA), the Engineering Society (EngSoc) and Your Next Career Network (YNCN).

UTDL was founded as a chapter of the National Design League in February 2019. The purpose of the UTDL is to provide engineering students of all disciplines and backgrounds an opportunity to learn and develop core mechanical design skills. There is an emphasis on real-world applications of additive manufacturing, rapid prototyping and CAD. All the events held by UTDL provide attendees across Ontario and beyond with a platform to learn technical skills as well as to design, fabricate and showcase their innovative solutions for real-life mechanical engineering design problems faced by our diverse industry partners.

DEVAM GANDHI – President & CEO | University of Toronto Design League

For 2021-22, the funding received by UTDL was used by our Educational Technology department (“Ed. Tech”), newly formed UTDL Design Team, Operations department (“Ops”), and Media department.

Our Ed. Tech team hosted numerous mini-competitions and workshops throughout the year. These events were educational in nature and provided students of all backgrounds with a base in relevant core mechanical design tools and concepts (for example, Fusion 360 in collaboration with Autodesk, SOLIDWORKS, Ansys etc.). Due to the generous CPSIF funding, UTDL was able to implement a “raffle system” for students attending Ed. Tech events. Attending more events resulted in opportunities for better prizes including but not limited to cash rewards, gift-cards and e-vouchers, 3-D printers, software access etc.

With a strong financial position due to years of planning, UTDL was finally able to launch its in-house design team. The design team sought to work on long-term projects that would make an impact to the community. For the 2021-22-year, two major design projects were initiated. The first was a precision agriculture drone. The second was a robodog exoskeleton. Funding was used to procure key elements and parts used in the design including but not limited to gears, screws, Arduino toolkits, batteries, superglue, micro-controller, MPU, voltage

regulators, PWM Driver, encoders and more! The two projects directly impacted ~10 selected Skule students while also roping in a team lead from UWaterloo.

Funding allocated to the Ops team was primarily used in planning and executing our annual flagship hardware hackathon: "Designathon". Due to the generous funding, we were able to give out thirteen 3D printers as prizes to our first-place winners, further encouraging students to design, build and prototype in their future projects and course work.

One of the 3D printers received by our winners

Some demos of winning CAD designs from Ed. Tech events.

Although COVID-19 restrictions required all events to be held exclusively online, our virtual Designathon once again had over 150+ participants from several different countries! Our participants came from various engineering disciplines along with several non-engineering students from multiple universities (including from the USA), as well as high school students. Participants were able to work towards providing innovative solutions to different design challenges posed by industry partners such as Huawei, Autodesk, and Zebra Technologies.

Our Skule alumni and faculty greatly assisted with our Designathon as well. Our judges were predominantly from UofT, including UofT alumni, professors, graduate students and teaching assistants such as Ali Radhi and Peter Serles.

All of the above events were supplemented by work from our Media team. The funding received was able to cover important aspects of marketing and hosting our workshops and events. More specifically, we were able market our workshop and events through Facebook and Instagram advertisement, host online events through Hopin, and demonstrate we would provide enticing prizes to winners.

After our events, we received countless comments from participants about how much they enjoyed the design experience! Almost all participants mentioned that the UTDL workshops held over the year were helpful, and they are looking forward to attending UTDL's competitions once again in the coming year.

The University of Toronto Design League would like to thank the organizations and divisions part of CPSIF for their support, without whom our workshops and events would not have been possible!

The funding allowed us to grow (by launching our very own design team) and enabled us to continue doing what we do best: providing

students of all backgrounds with an opportunity to learn and develop core mechanical design skills. As next steps, we are hoping to propel our design team towards representing the club and UofT at international competitions such as IAM3D and others held by ASME.

Several alumni were involved in spreading the word for our annual flagship Designathon (held on February 5th and 6th, 2022).

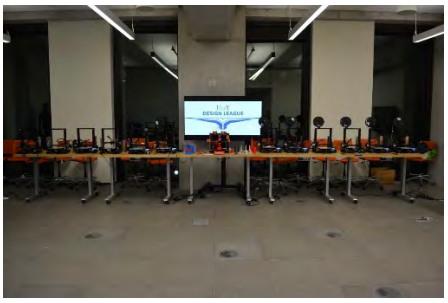
A large part of the 2021-22 executive team has just graduated this year and I plan to keep them engaged for the coming year and beyond through alumni speaker series, judging our events etc.

Name of prospective alumni (graduated this year):

a. Kyle Damrell
b. Shaheer Siddiqui
c. Sumyung Jang

Opening Ceremony of the 2020 UTDL Designathon held within Myhal

Participants working on their design prototype within Myhal



Some of the 3D Printers participants had at their disposal at the Designathon

One of three winning teams and their prototype design

(From left: Christopher Tong, Andres Cervera Rozo, Vanessa Bottero, Liam Toner)

University Of Toronto Emergency First Responders

UTEFR+

Total Funding Awarded	**$2,050**
DO / EAN	$1,200
EngSci	$150
EngSoc	$500
MIE	$150
MSE	$50

The University of Toronto Emergency First Responders (UTEFR) was founded by a small group of engineers who were part of Skule Patrol that recognized the need for the University of Toronto St. George Campus to have a year-round first aid service. Although UTEFR has developed into a campus-wide organization that includes members from all faculties and disciplines, we are still proud to be affiliated with the Faculty of Engineering and Applied Science, as well as the Engineering Society, who both generously contribute to our operations every year.
A significant portion of this funding was used toward re-establishing our organization after the COVID- 19 pandemic which unfortunately nearly dissolved our organization as we are highly dependent on in- person operations, trainings, and courses. We replaced nearly all our consumable equipment as they were no longer suitable for patient care as they were mostly expired, dried out, or no longer usable due to its condition. Additionally, we purchased several pieces of new equipment, including a stretcher, patient cot, spinal board, long-range radios, and much more. All of this allowed us to return with more professionalism and be better equipped than UTEFR has ever been. Over the past year, we provided first aid coverage at FROSH week events (such as NiteLife and the Bed Races), many orientation events, all convocation ceremonies, Skule Nite, Undergraduate Engineering Research Day, and so on. Altogether, UTEFR was able to use the equipment we purchased from CPSIF to provide care to more than 200 patients over the past year, including several patients who required EMS transport to hospital.

As a result of our increased professionalism, we were also invited to partner with Odyssey Medical, one of the largest event medical companies in Canada, to send UTEFR volunteer responders to some of their major planned events (often involving over 50 first responders, paramedics, nurses, and doctors). Events included the Rolling Loud Music Festival, TCS Toronto Waterfront Marathon, VELD, and the Boots & Hearts Music Festival, just to name a few. This not only provided our members with experience in providing patient care on a much larger scale, but also allowed UTEFR to make a change beyond the University of Toronto community, but the greater community as well. Including these external events, UTEFR has cared for more than 3000 patients (including 2464 encounters at just Rolling Loud alone) and event attendees. All of this is an example of UTEFR using CPSIF funding to fulfill its goal of providing quality pre-hospital care to the community.

Regarding our mission to instill confidence in first aid treatment and ensure first aid training is available to everyone on campus, UTEFR was able to use CPSIF to purchase a large amount of training equipment to host heavily discounted first aid and first responder courses for our members. As a result of those courses, our team consists of two paramedics (one licensed, one pending), over 20 certified first responders (certified to the same level as firefighters), and approximately 30 trained in basic life support (BLS) with oxygen therapy and airway management.

UTEFR responder team since its inception, and we hope to continue this positive trend of making these expensive courses more accessible to the student community. We also run monthly trainings to ensure our responders' skills are kept current, including a couple that invited UTEFR/Engineering Alumni, Kelvin Cui (who previously served as our executive director), to return and meet the current team. We have also invited UofT alumni, including a current Advanced Care Paramedic with Toronto Paramedic Services, to help train our responders.

It is not enough to say that the CPSIF is an extremely important part of UTEFR's regular operations. Without this funding, it is doubtful that our organization would be able to run as well as it currently is, and nearly impossible that we would be able to care for as many patients as we did over the past year. UTEFR is grateful for all the CPSIF donors and their contributions, and we hope to continue to have your support in the future to keep up with our goals and missions.

UTEFR has also developed a "Health and Wellness" kit that we bring to major events. This kit includes feminine hygiene supplies, safe sex supplies, sun safety supplies, peer resources, and more. This allows UTEFR to provide services in a broader way than just first aid!

UTEFR responders in Vancouver partnering with RockDoc Consulting, Inc. to provide medical services at the BMO Vancouver Marathon! This allows UTEFR responders to be actively participating in activities involving UTEFR's mission even in the summer when they are not in Toronto.

(From left: Benjamin Shaw, Chelsey Das Neves, Howell Fang, Sofia Assakar (All UTEFR members)

University of Toronto Engineering Iron Dragons Dragon Boat Club

Total Funding Awarded	**$9,800**
BME	$500
ChemE	$100
CivMin	$100
DO / EAN	$1,500
EngSci	$700
EngSoc	$3,500
ECE	$2,000
MIE	$1,000
MSE	$200
YNCN	$200

Our initiative, the UofT Engineering Iron Dragons Dragon Boat Club, relies on funding to run and sustain our activities throughout the year. The CPSIF funding has been instrumental in allowing us to participate in various initiatives, activities, and events that are important to our organization and the wider community.

Overall, the CPSIF funding was vital in advancing our organization's goals and activities, which in turn enhanced the undergraduate and graduate student experience, built an inclusive community among students and alumni, contributed to leadership and professional development of students, and increased the visibility, profile, and awareness of the Engineering Faculty, EngSoc, and the discipline of engineering itself as we are proud wearers of the Skule logo.

One of the most significant ways the funding was used is for boat rentals, boat storage, and boat mooring/docking. CPSIF allowed us to rent boats for practices to prepare for local and regional regattas, including the Milton Dragon Boat Festival, Pickering Dragon Boat Festival, Toronto Islands International Dragon Boat Festival, and more. Furthermore, the funding covers some of the registration fees for those regattas, where we race mixed, open, and women crews. Finally, CPSIF helps cover boat insurance, which ensures that our members are safe during practices and competitions.

Give-it-a-try day!

In addition to boat-related expenses, we also used the funding for gym rentals at Cardio Go during Fall Semester and Afterburn during Winter Semester. This allowed us to cross-train and improve our fitness. We also used the funding for water season training camp and OC

rental sessions, which helped our members learn new skills and techniques.

Fall Semester Training

Winter Semester Training

The funding also covers fees from our participation in the Canadian National Dragon Boat Championship in Welland this year, including hotel accommodation, Dragon Boat Canada (DBC) affiliation, DBC cards, and race registration. This event provides an opportunity for our members to showcase their skills and compete at a national level.

Lastly, the funding covered the cost of equipment such as warmup jerseys, race jerseys, OC/DB maintenance, erg parts, and more. This equipment is essential for our organization to operate and ensure the safety of our members during practices and competitions.

Without this funding, we would not have been able to participate in these events and initiatives, which are crucial to our members' growth and development as athletes and individuals. We are day by day achieving our mission to encourage physical fitness, a healthy and balanced lifestyle, as well as develop teamwork, communication, and cooperation among students, which align with CPSIF's mission.

Iron Dragons actively engages with alumni in various capacities. We believe that alumni engagement is important to build an interconnected Skule community and to provide opportunities for our members to learn from and network with experienced athletes.

Back on the water for summer season

OC Sessions

Iron Dragons Halloween Social

One way we engage with alumni is by inviting them to paddle with us. We welcome alumni who have experience in dragon boating to join us for practices and regattas. Alumni paddlers bring a wealth of knowledge and experience to our team, and their presence enhances our practices and competitions. We also encourage them to help teach and engage with rookies who join the team. This allows our newer members to learn from experienced paddlers and build meaningful relationships within our team.

In addition to alumni paddlers, our coaches are all engineering alumni, and they are present at all practices and regattas. Our coaches are experienced paddlers who bring their technical expertise and passion for dragonboat to our team. Their guidance and mentorship have been instrumental in our members' growth and development as athletes and individuals. This year, we have the opportunity to work with 5 wonderful Skule alumni coaches, Ehren Chang, Yca Meriel, Michael Lucky, Courtney Siu, and Hannah Fletcher.

Overall, alumni engagement is a critical aspect of our organization, and we are grateful for the support and contributions of our alumni community. We look forward to continuing to engage with alumni and provide opportunities for our members to learn and grow.

University of Toronto Engineering Student Consulting Association (UTESCA)

Total Funding Awarded	**$4,348**
CinMin	$100
DO / EAN	$798
ECE	$1,000
EngSci	$300
EngSoc	$800
MIE	$1,000
MSE	$50
YNCN	$300

UTESCA effectively and efficiently used the funds provided by CPSIF in the 2022-2023 academic year to focus on benefitting the Skule community and building upon UTESCA's student base. With the goal of providing real-world consulting experiences and applicable skills for any future career, our events and initiatives always have student experience at their forefront. Our overall applications of the funds can be divided into 2 major categories (professional development events and CEP initiatives):

Professional Development Events: Funding for each of these events went into honorariums (in the form of gift cards) for all invited speakers and corporate representatives, catering for the attendees, and A/V costs associated with room bookings. Although we hosted several major events throughout the academic year, in the interest of conciseness, our major 2 events will be discussed:

Curious About Consulting Panel: Students received a chance to talk to 4 industry consultants and co-op students from top firms like Deloitte, across a variety of engineering consulting fields. Students had the opportunity to ask them anything, receive industry tips, and further their connections. With 40+ registrations and this being our first event of the year, we used funds to provide gift cards for our panelists, light catering in the form of water bottles & a vegetable platter, and microphones.

Consultant for a Day Event: Students & Our Guest Speaker for the Event (Shiladitya Ray)

Consultant For A Day: An interactive workshop/networking event with consultants from top firms like Deloitte, KPMG, and more to guide students through a consulting case study in a small group setting. This is your chance to be mentored and guided through initial stages of any consulting interview by getting hands on experience solving a case study within your assigned group led by a consultant. With 50+

registrations, this event had opportunities for Skule students to really see the inner workings of how leading management consultants think. Funds were used to cover pizza for attendees, water bottles for the panelists, A/V costs, room booking costs, and honorariums for panelists.

Case Day for Consultants

Midterm Event

We have added to the vibrance of the Skule community through these events since engineering students now have access to connections within major engineering firms and an opportunity to see how engineering projects are executed in the real world. We educated students about engineering consulting by teaching them how to approach engineering problems, how to interact with clients, how to build teamwork, and so much more. We exposed them to different tools that can be helpful in their careers through anecdotes from employees based on presentation quirks and networking tips.

UTESCA Social at Snakes n Lattes (Ishaan, Blythe Huang, Natasha Marissap, Betty Wang, Jasmine Yanoshita, Mehak Afzal, Louis Liu, Colin Brigdwin, Shaba Khan, & Harvi Karatha)

UTESCA Social at Snakes and Lattes (Ishaan, Blythe Huang, Natasha Marissap, Betty Wang, Jasmine Yanoshita, Mehak Afzal, Louis Liu, Colin Brigdwin, Shaba Khan, & Harvi Karatha)

CEP Events: CEP are the major engineering projects that UTESCA runs by partnering with existing organizations. Students are placed in teams with an advisor and come up with engineering solutions to a presented real-world engineering concern that a client wishes to resolve pro-bono. UTESCA hosts midterm review events, final review events, and socials for these project teams to further incentivize them in team building and idea generation. UTESCA uses funds to secure food and venues for these incredibly meaningful events. Since these events connect the Skule community to

professionals and also help undergraduates take on engineering consulting cases while being paired with professionals through our pro-bono consulting initiative, these networking events are integral to our club's success and have the potential to change the careers of UofT students. Each project has 4 UofT students who are paired with a professional consultant to work with a unique company. Here is quick overview of the demand that arises from each of our 5 consulting projects:

CEP Project Presentation for UTESCA (Colin Gu, Luis Carrizo Soto, Yizhou Liang, Harmet Bhandal)

Project 1: Develop Fine Tuning Functions with C# and Unity 3D: Canadian non-profit social enterprise focusing on developing prosthetics for children and youth from age 5-25, and is looking to enable these fine tuning functions inside its own software through the use of C# and Unity 3D. Our students worked with an aide to develop the C# software.

Project 2: Modify Frontend and Create Engine with JavaScript: A software company that reinvented email using artificial intelligence to save time and money, and our students provided a fully functional calendar app within their existing mail app.

Project 5: Upscaling the Process of Fortifying Tea with Iron & Economic Cost Analysis: Levente L. Diosady is the professor of Food Engineering in the Department of Chemical Engineering and Applied Chemistry at U of T. His research interests include oilseed processing, membrane processes, extrusion, advanced separation processes, and micronutrient fortification of food. Students learned to create a report summarizing findings and calculations, as well as an economic cost analysis of a tea-fortifying process.

Project 6: A Study of the Scope 3 Carbon Emissions by the hospitals and facilities: University Health Network encompasses the Toronto General and Toronto Western hospitals, the Princess Margaret Cancer Centre, Toronto Rehabilitation Institute, and The Michener Institute of Education at UHN. This project will work with the Energy & Environment department at UHN. Students created a tool that is capable of estimating the Scope 3 Carbon emissions given a range of factors and costs.

Project 7: A Study of Making the Hospitals & Research Facilities More Resilient Towards Power Outages: Students worked with UHN to develop an action plan on making buildings more resilient towards power outages

In conclusion, UTESCA secured seven engineering consulting projects throughout the academic year and recruited 4 UofT Undergraduate students to work on each one of them. However, it is due to the provided budget that teams came together to create social events to link UofT undergraduate students working on the projects with the UTESCA executive team and their corresponding clients. These projects build work experiences for Skule members, give them invaluable consulting experiences, create close corporate bonds for

Skule members, and can provide more connections for future UofT students.

UTESCA AGM: End of the Year Executive Recruitment Plan Meeting (Jasmine Yanoshita, Blythe Huang, Natasha Marissap, Betty Wang, Mehak Afzal, Xiao Huang, Louis Lu, Harvi Karatha)

Alumni guests:

a. Lisa Minci
b. Erin Hacker
c. Lauren Streitmatter
d. Levente L. Diosady
e. Lucy Liao
f. Shreya Gupta
g. Shiladitya Ray
h. Angela Weng

University of Toronto Ethical Principles in Artificial Intelligence (EPAI) Team

Total Funding Awarded	**$630**
DO / EAN	$200
EngSci	$250
EngSoc	$180

EPAI used funding to coordinate EPAI's speaker series, a technical project on sentiment analysis of tweets, a research project on differential privacy, and team events to strengthen EPAI's student community.

EPAI hosted unique speaker series for undergraduate engineering students that covered topics including ChatGPT and LaMDA. Pizza was provided for the attendees. The speaker series was EPAI's primary mode of connecting with non-members to spread awareness of issues in AI, particularly to undergraduate students as they have limited exposure to in-depth knowledge of AI and its implications.

EPAI uses CPSIF funding to support the technical projects run every year which includes a Google Colab Pro subscription and website hosting packages to build models and deploy them to the website so team members can easily share their work. The sentiment analysis of tweets team, aimed to decentralize the standard flagging process for social media platforms by using NLP to detect sentiment and hate speech in tweets. A text editor was created such that the feedback is provided as the user is typing their text into the editor. This work is hosted on a website for project members and EPAI to share to others. The differential learning project aimed to show that even in instances when sensitive information is not explicitly used to train a model, patterns can be extracted and re-identify personal identification about an individual. This project implemented different algorithmic techniques for learning were implemented on a medical image datasets and an analysis of privacy costs within the framework of differential privacy was completed to evaluate the merits and room for improvement of different techniques. A research paper was created to summarize the results. Having these subscriptions makes testing systems faster and allows models to be shared in an interactive manner.

In addition to the projects, advertising opportunities to undergraduate students was made efficient using canva. EPAI used canva to advertise all club positions, projects, EPAI's MLH-affiliated hackathon, and each speaker series. Lastly, we had team socials in which attendees were given coffee/tea.

EPAI exec members.

University of Toronto Fashion Club

Total Funding Awarded	**$405**
BME	$50
DO / EAN	$255
YNCN	$100

The University of Toronto Fashion Club exhibited a remarkable display of resourcefulness in making the most of the funding granted by the CPSF for their end of the year costume photoshoot and social gathering celebration. Leveraging the financial support, the club meticulously curated an immersive experience that left a lasting impression on attendees. The event ambiance was carefully crafted, adorned with thematic decorations and art installations that brought the world of fashion to life.

One of the standout features of the celebration was the food which consists of mainly fast food such as pizza, donuts and hot chocolate which was mainly pizza, donuts and hot chocolate. The CPSF funding also facilitated the organization of interactive workshops and panel discussions that were held throughout the year at various location, where the grant was used to order food from Tim Hortons, fostering an environment where students could delve deeper into their passion and gain practical knowledge.

Moreover, the club ingeniously utilized the CPSF funds to curate a captivating exhibition showcasing the creative prowess of its members held at queens park. The exhibition space featured an array of garments, accessories, and designs crafted by talented students, serving as a testament to the club's commitment to fostering talent and innovation. Attendees were able to engage firsthand with these creations, sparking conversations and forging connections within the local fashion community.

Thanks to the CPSF funding, the event was not only a celebration of achievements but also a catalyst for future collaborations. Attendees from diverse backgrounds mingled and exchanged ideas, enriching their understanding of fashion's multidisciplinary nature. The funding also allowed the club to provide attendees with engaging take-home materials, such as informational pamphlets, enhancing the event's educational value.

In sum, the University of Toronto Fashion Club's adept use of the CPSF funding in hosting their end-of-the-year social meet-up celebration exemplified the power of thoughtful planning and strategic investment. The event seamlessly blended creativity, education, and networking, resulting in a resounding success that left participants inspired, informed, and connected. Through their remarkable execution, the club demonstrated the transformative potential of collaborative efforts fueled by purposeful funding.

The celebration served as a bridge between seemingly disparate fields, fostering connections and interactions that extended beyond the boundaries of fashion. Members of the Skule™ community, including engineering

students and faculty, were drawn into the event's vibrant atmosphere, where they could engage with creative minds from the fashion realm. This cross-pollination of ideas encouraged a dynamic exchange of viewpoints, potentially sparking innovative collaborations that might not have otherwise arisen.

By incorporating elements like interactive workshops and discussions, the celebration encouraged Skule™ students to explore their creative sides, potentially igniting a newfound interest in fashion and design. This multidimensional exposure broadened their horizons and allowed them to see how their engineering expertise could intertwine with artistic and aesthetic concepts.

Trisha Valdez

The pictures above are of the participants who did a photoshoot using a fishless as well as the props that were provided by the club and were bought using the CPSIF funding in the end of the year costume and social gathering celebration. (Other pictures consist of participants that have not granted their permission to use their pictures).

The organization did not manage to engage alumni as the club is still new, but the consecutive year will make sure that it has more events that engage the alumni.

Name- Sylvia Murshed

University of Toronto Formula Racing Team

Total Funding Awarded	**$33,850**
ChemE	$100
DO / EAN	$10,000
EngSci	$1,000
MIE	$22,000
YNCN	$750

The University of Toronto Formula Racing Team is incredibly grateful for the support awarded this year through CPSIF funding. Our 2023 vehicle, UT23, is the first of its kind in many ways. It is our first running electric vehicle, as well as being our first vehicle with fully autonomous driving (driverless) capabilities. This accomplishment would not have been possible without the tireless work of our 100+ active members, the generosity of our community partners and sponsors, and support through CPSIF.

UT23, our first running electric vehicle and first driverless capable vehicle.

CPSIF funding was crucial in buying many parts critical to the development of our electric vehicle and driverless systems, such as steel and aluminum sheets and tubing, components like integrated circuits and microcontrollers for our vehicle electronics, and larger parts like our high voltage architecture.

Our team is made up of over 100 undergraduate students across several disciplines. The successful development of our first electric and driverless capable vehicle has brought the team a profound increase in electrical and software engineering members, strengthening the diversity within the team and allowing us to engage in yet another field of engineering to professional standards. One of our biggest and proudest missions as a team is to foster the development of our engineering students. We strive to include, empower, and enrich the learning of everyone, from recruits to all team members at the undergraduate and graduate level. We provide unique experiences that allow students to apply knowledge and learned concepts to hands-on experience and real world experiences. We look forward to continuing to encourage this growth, and to providing as many students as possible with hands-on technical experience at industry standards, complementary to their learning. The team also provides students with many opportunities to network and connect with their peers and our sponsors in the industry.

UTFR is proud to be representing the University of Toronto at four competitions across three countries this year. This marks the first time since COVID-19 that we have been able to commit to competing overseas. At our first competition of the season, Formula Hybrid + Electric in New Hampshire, we placed 1st overall. We placed top three in every individual event, and were the only team in attendance to successfully complete all 44 laps in the endurance component.

Our four drivers pose with our car and first place trophy

In addition to attending events abroad, UTFR also hosted three events of its own this year. Our Women In Motorsport Panel invited four women within different sectors of the Motorsport and automotive industry to speak to our members and the engineering student body, to promote diversity and inclusivity within our community and industry. Our UT23 Unveiling saw the official unveiling of our vehicle for this year, giving us an opportunity to show our faculty, family, friends, alumni, and sponsors what we have been proudly working on all year.

Our Women in Motorsport guest speakers answering questions during the panel in September.

Finally, our Shootout event, hosted annually for universities across Ontario, Quebec, and the Eastern United States, was once again made possible by CPSIF funding. We are very proud to have been able to continue to represent our University and engineering student body with this fun day of racing competition, networking, and learning with our peers, sponsors, and alumni in attendance.

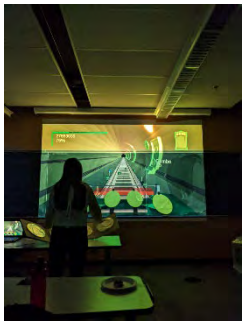
Teams attending UTFR Shootout prepare their vehicles in October.

As we near the end of one of our most successful seasons to date as a team, we recognize our success would not have been possible without the funding received from CPSIF. We hope to continue this success and our commitment to a sustainable, inclusive, electric future with CPSIF support for years to come.

The 2022-2023 University of Toronto Formula Racing Team at the official UT23 Unveiling

University of Toronto Freelancers' Organization

Total Funding awarded	**$370**
ECE	$170
EngSoc	$200



Software Showcase Event

A screenshot of a website built by UTFO for the UTTP.

As per UTFO's purpose, the organization has been taking web development project requests from numerous U of T associated clubs/organizations. Additionally, UTFO has hosted its first in person event of the year, the "Software Showcase". In this event students (including non-members) of all years and disciplines at U of T, were open to present projects they had been working on, for the purpose of engaging students in productive discussions, receiving feedback, and gaining inspiration. The main activities the club provided for the 2022-2023 academic year was training and real client projects provided by other U of T affiliated organizations. In training, students were tasked with readings and projects related to web development to improve their skills and were placed in development teams after completion. The readings and projects were decided upon by UTFO executives to best reflect the organization's tech stack and coding practices. Projects were led by team leaders with 3-4 additional members supporting them as developers. Websites were made from scratch and published for both the U of T Tea Party, and the Canadian Society for Civil Engineers. Additionally, the website for Filipino Students' Association of Toronto (FSAT) was edited and the code refactored by UTFO. Funding for this year allowed the utfo.ca website to continue running which improved the outreach and credibility of the organization for potential clients. The executives speculate this is the main contributor for the increase in demand for UTFO's services. With additional funding the organization could also provide more in depth learning materials for students, and also host larger events for the engineering culture and student life.

The expenses for merchandise and website hosting are covered by the CPSIF funding received. For future budgets, UTFO hopes to have a larger budget to be used for merchandise and marketing which is estimated to cost up to $500.

University of Toronto Institute of Transportation Engineers Student Chapter

Total Funding Awarded	**$1,000**
CivMin	$1,000

UT-ITE held weekly transportation research seminars, two professional events and three social events in the academic year 2022-2023. Hereafter is a description of these events.

UT-ITE Transportation Research Seminar Series

After two years of being held online, the past year the UT-ITE transportation seminar series was conducted in-person. On average, 25 to 30 people attended the weekly seminars which took place every Friday. In these seminars, a guest speaker is given the floor to discuss projects and/or research relevant to transportation engineering. Diverse guests from the academy and transportation industry were invited. Some of the guest speakers are U of T alumni who have moved on to work in the transportation industry. Figure 2 is a collage of pictures taken during the seminars.

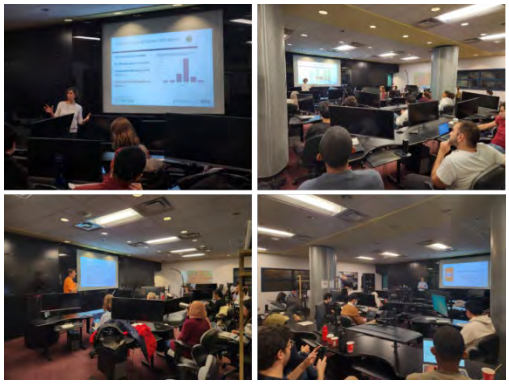


Figure 2: UT-TE Transportation Research Seminar.

UT-ITE Hosts Metrolinx

UT-ITE was fortunate to collaborate with Metrolinx for an informative talk about the provincial agency that helps bring it all together when it comes to transportation in the Greater Toronto and Hamilton Area. For more than a decade, Metrolinx has set the benchmark for enabling convenient interconnectivity and public transport solutions. An exciting addition to Metrolinx's portfolio is the Hurontario LRT Project. Extending up to 18km over the Peel Region with 19 dedicated stops, this project travels through two urban growth centres and various existing transit systems. Approximately 50 people attended the event and enjoyed light refreshments while networking with speakers from Metrolinx. It was great opportunity for students to see transportation projects being implemented and hear about opportunities and challenges.

Metrolinx event.

UT-ITE Student Industry Mixer

The Student-Industry Mixer is an annual event organized by UT-ITE. It is an event where representatives from transportation engineering organizations participate to describe their projects and recruit interested students. After a hiatus of 3 years, UT-ITE's team was very excited to hold the event in-person and resume the tradition. In total, 14

organizations participated, of which 12 are private sector companies. Notable names include HDR, ARUP, City of Toronto, and Region of Peel. This event also presented a fund-raising opportunity for next year's events and activities. We received CAD $300 from each private-sector company that participated. The event was held for four hours at the Hart House Debates Room, and a total of 100 attendees passed by. Refreshments were served throughout the event. Many of the organizations' representatives were in fact U of T alumni.

UT-ITE Annual Student-Industry Mixer.

Two social events were held at the beginning and end of the Fall term, respectively. The first was the Beginning of Year Ice-Breaking Gathering. Incoming and current students gathered around along with transportation engineering professors to enjoy food and socialize. The second was an End of Year Holiday Gathering. Students and professors enjoyed their time, ate pizza and cake. During the event, Secret Santa gifts were exchanged.

At the end of the Spring term, the UT-ITE General Meeting and Elections were held. In this meeting, the incumbent executive team gave a brief presentation of the year's events and oversaw the voting process to elect next year's executive team.

Beginning of Year Ice-Breaking Gathering (left)

University of Toronto Investment Banking Club

Total Funding Awarded	**$800**
DO / EAN	$200
ECE	$200
EngSci	$100
EngSoc	$200
YNCN	$100

Investment Banking is a field commonly entered by machine intelligence majors, financial engineering majors, and so many more Skule students. Although we incurred no expenses, our Analyst Training Program is one of our leading initiatives for interested students because it provides an incredibly holistic, beginner-friendly opportunity for university students to learn more about the finance and

consulting industry. The program is really one of its kind and is consistently changed to remain relevant and fresh for students. However, the funding awarded by CPSIF was used for running our professional development events: A/V costs, room booking costs, event food costs, microphone costs, and more. In the interest of conciseness, only four major events out of our many annually-held events will be discussed in detail with regards to their contributions to the Skule community.

Women in Finance with CIBC Event - In order to make the finance industry more accessible and approachable for women in engineering, this event was held in partnership with the UofT Women's Association. With 30+ attendees, our 3 invited consultants from CIBC provided very diverse perspectives of how they each navigated through the industry and used their non-business degrees to get there as well. Funding was used for several aspects of the event: food costs, water bottle costs, microphone rental costs, speaker honorariums, and A/V costs. After receiving incredibly positive feedback from attendees about the content and value of the event, UTIBC will be committed to running the event again next year. Skule is committed to equity, diversity, and inclusion: this event is one of our several methods in reaching out to minority audiences often not included and recognized within finance industry conversations.

UTIBC Stock Pitch Competition's Judges:

(From left: Harry Gao, Nicole Ng, Luka Pavlesen, Drew Mehta, Krsta Friesen)

Annual Stock Pitch Competition - The competition provided an opportunity for students to demonstrate their investment ideas and knowledge of the financial markets. Each team of 2-5 students assembled a slide deck to

pitch a long or short equity position with a 3-12 month horizon. Finalists presented their stock pitch in-person to a panel of judges, and all participants had the opportunity to attend a networking session on Tuesday, April 11th, 6-8PM (EST). This networking and competition based event was a prime way to provide a competitive opportunity for Skule students to engage with and apply the investment banking knowledge they learned throughout the year through our events. This event aided students by giving them the opportunity to get feedback on their work from current investment banking analysts while also providing a chance to really improve their presentation skills. These opportunities majorly benefit our engineering students since they can see the feedback based on their presented ideas.

UTIBC Open House Event - With 70+ registrations, this event was the first kick off event for the year. Although it was online, students found lots of opportunities to see the value in what UTIBC does while UTIBC was able to create plans based on student-feedback for the 2022-2023 academic year to supply the demand for IB opportunities. Skule students met our team and learned more about UTIBC: our mission, upcoming events, and hiring opportunities. This event was also a great opportunity to ask the team any questions that students had about the recruitment process at UTIBC if they wished to join the executive team or the membership list..

BMO Capital Market Recruitment Event - With 175+ registrations, this event provided Skule students with an opportunity to meet and network with BMO Capital Markets representatives and learn more about upcoming internship opportunities. After a short presentation from our BMO representatives, the networking breakout sessions for students were incredibly insightful for them to voice their questions and speak further on their interests and how they could work on their application. This BMO event was a professional-development event with reviews from attending students that sparked the next CIBC recruitment event, ComCap recruitment event, DRW Trading recruitment event, and more held by UTIBC this year. These types of events add to the Skule community by presenting more networking connections for students to use for job recommendations and further applications. Many engineering students end up working in one of the listed financial institutions, so this opportunity was quite valuable to connect Skule students and industry professionals.

Alumni guests

a. Nicole Ng (Judge at Stock Pitch Competition)
b. Vanathy Raja (Panelist Speaker at Women in Finance)
c. Anne Yao (Panelist Speaker at Women in Finance)

University of Toronto Machine Intelligence Student Team (UTMIST)

Total Funding awarded	**$1,150**
ChemE	$50
DO / EAN	$200
ECE	$200
EngSci	$200
EngSoc	$200
YNCN	$300

Club fair during frosh week. Front left to right: Arsh Kadakia, Rupert Wu, Jack Cai.

(From left: Yu Xin Li, Lavanya Mehndiratta, Arielle Zhang, Charles Yuan, Sophie Sun, Afnan Rahman, Steven Luo, Richard Shuai.)

University of Toronto Machine Intelligence Student Team (UTMIST) is a student club dedicated to clearing the mist surrounding machine intelligence for U of T undergrads. We provide opportunities for members to discuss, participate, and research the latest machine learning techniques and their emerging applications. We aim to ignite interest and promote undergraduate students' involvement in the field of machine intelligence. At the end of the past school year, we were able to create hands-on opportunities for more than 200 members, and broadcast an impact to more than 1500 UofT students and alumni.

This year, UTMIST has 12 projects, 70+ undergraduate/graduate developers, and close collaborations with companies and student-initiated start-ups. We are exceptionally proud of our partnerships with companies and start-ups like Omniscience and AltaML.

Annual general meeting.

The main project showcase will be held in September, and each team will receive up to $50 for reimbursement on computing and software infrastructure (making a total of $600 for 12 teams). $111.27 was used to purchase Cloudflare domains in preparation for the showcase.

The Academics department has three initiatives: the Coursera Study Group, the Paper Reading Group, and the Project Workshop. This

year, more than 50 students enrolled in our bi-weekly sessions or the three initiatives.

Clear the MIST mentorship program is a new program we introduce this year, aiming to navigate first and second-year university students through a smooth transition to university life, and introduce people to ML research and industry opportunities. We currently have 25 mentees and 8 mentors. Our mentors consist of 4th-year students, graduate students, and UofT alumni.

UTMIST Mentorship Program.

By releasing articles on our Medium publication, deMISTify, we are able to reach a large, public audience and inform them of the latest trends and research being done by machine learning experts worldwide, both in academia and in industry. These Medium articles are also compiled into a bi-weekly newsletter sent out through Mailchimp to our 1700 subscribers.

Hack the MIST is the first 16-hour in-person Machine learning hackathon hosted at the University of Toronto. Following the Major League Hacking guidelines, UTMIST provides free and accessible resources to students including computing resources, mentorship, and technical workshops led by UTMIST team members.

Hack the MIST organizers.

(From left: Lavanya Mehndiratta, Jack Cai, Nimit Bhanshali, Sarah Xu, Arsh Kadakia, Richard Shuai.)

With 600 applications received, we accepted more than 150 undergraduate students from institutions such as UofT, TMU, and UWaterloo. The event not only educated students about ML, but also showcased UofT as Canada's premier institution of ML.

AI Ethics Debate.

(From left: Top Row: Cole Burrows, Arnav Bandekar, Justus, Richard Xu, Willie Costello, Ori Freiman, Kelly McConvey, Denys Linkov, Abidur Rahman, Jae Won Park. Lower row: Afnan Rahman, Sakshi Jagtap, Sarah Xu, Berke Altiparmak.)

Being a responsible ML engineer is equally important as having technical skills, as it promotes critical thinking, personal ethical development, and prepares students for future professional roles. This year, we took a form of a 3v3 debate show that aims to showcase argumentative discussions on AI Ethics. With ~80 attendants, we used a total of $590.73 for gifts to the best debater, thank-you gifts for judges, and food and refreshments for the evening.

UTMIST has the pleasure of featuring TedX speaker Rishit Dagli to provide an in-person workshop to UofT students on the open-source ML toolkit with the popular ML framework TensorflowHub, attracting more than 70 students. $25 was used as a thank-you gift to the speaker.

ML Career Panel.

CSSU x UTMIST Engineering-CompSci Research Connect.

Our virtual career panel featured alumni data scientists and machine learning engineers from Meta, Bell, IBM, and AltaML, to provide insights and guidance to aspiring ML professionals who may feel daunted by the technical bars for many positions in the field.

This event aims to connect research opportunities in the Faculty of Applied Science and Engineering and the Department of Computer Science, with over 120 attendees. Funding was used to purchase pizza for the participants, as well as thank-you gifts for the speakers.

Executive social

(From left front to back: Steven Luo, Charles Yuan, Arielle Zhang, Yu Xin Li. Right from front to back: Jack Cai, Arsh Kadakia, Richard Shuai, Sophie Sun.

Club booth. Arielle Zhang and Jack Cai.

University of Toronto Ontario Water Works Association Student Chapter

Ontario Water Works Association
a Section of the American Water Works Association
University of Toronto Student Chapter

Total Funding Awarded	**$750**
DO / EAN	$250
EngSci	$100
CivMin	$200
ChemE	$100
YNCN	$100

The Ontario Water Works Association Student Chapter at the University of Toronto (U of T OWWA-SC) would like to cordially thank all of the organizations and departments listed in Table 1 for supporting our events during the 2022-2023 school year. During this year, we hosted numerous in person events, providing opportunities for the Skule community to learn about future careers in the water industry and network with professionals, whether in academia or in industry, and meet other students with similar backgrounds and goals. The events we have held to meet these goals, including a water trivia night, winter networking night, water in academia panel discussion, and water in industry panel discussion would not have been possible without the generous support provided through the centralized process for student initiative funding (CPSIF). Some pictures of the events can be found at the end of this report.

On October 12th, 2022, the U of T OWWA-SC hosted a Jeopardy-style Water Trivia Night focusing on water-related issues. The funding support received from CPSIF provided gift cards for the winning team, as well as food and drinks for all participants. The event attracted around 20 students and provided an opportunities for the audience to expand their general water industry knowledge and for networking with other students with similar career interests.

OWWA Water Trivia Night

(From left: Fiona Chang, Chuck Balkenbusch, Rafiq Omair, Patrick Tyrrell, Sepehr Hoomani Rad, Omar Abdelazeem, Samantha LeValley, Subhajit Mondal, Yucong Shi, Nathan Moore, Danmei Chen, Hannah Groenewegen, Anushka Ranaut, Weiwu Chen , Gabrielle Migliato Marega)

On November 16th, 2022, the U of T OWWA-SC hosted an in person Networking Night with around 30 students from different departments and several alumni (Emily Curling, Ken Zhao, and Freya Wu). The networking event enabled the students to network with our speakers and have one-to-one conversations related to potential opportunities in the water industry for upcoming graduates. The funding received helped to provide a room and food for the event.

Winter Networking Event

On March 2, 2023, the U of T OWWA-SC hosted the event, Water in Academia, which provided around 10 students to learn from researchers in the water realm about what a career in water might look like on the academic side. U of T Professor Jay Werber, U of T Postdoctoral Fellow and Alumnus Husein Almuhtaram, and current PhD Candidates Kelsey Smyth and Yaozhong Zhang participated in the panel and fielded questions from students. CPSIF provided food and refreshments for the event.

Water in Academia

On March 30th, 2023, the U of T OWWA-SC hosted an in person event, Water in Industry, which provided around 30 students to learn from industry professionals on what a career in water might look like on the industry side. U of T alumni Rika Law and Emily Curling spoke on their respective careers and answered questions. A presentation on recruitment tips for resumes and interviewing was also given. CPSIF funding provided food and refreshments for the event.

Water in Industry

Overall, the CPSIF funding continued to be very important for our club, which allowed us to encourage participation from students and alumni and promoting their interests to dive deeper into the water industry and the water environment. In addition, the funding helped us to provide a socializing platform for students, alumni, and industry professionals with similar career interests. The technical knowledge and the interpersonal skills gained through these events will benefit the career development of our members immensely in the Skule community.

These supports have been extremely meaningful to our club and our members. From the 2022-2023 U of T OWWA-SC and all of its members, we look forward to working with the Faculty of Applied Science and Engineering again in the upcoming year to serve the vibrant Skule community.

Alumni guests:

a. Rika Law
b. Emily Curling
c. Dr. Husein Almuhtaram
d. Emily Curling
e. Ken Zhao
f. Freya Wu

University of Toronto Robotics Association

Total Funding Awarded	**$4,400**
MIE	$2000
EngSci	$500
DO / EAN	$1,500
YNCN	$400

The University of Toronto Robotics Association (UTRA) is sincerely appreciative and thankful for CPSIF funding. UTRA had an incredibly successful year, bringing back many of the initiatives that had shut down during the pandemic such as UTRAHacks, which is a beginner-friendly robotics hackathon that gave undergraduate students a platform to innovate and engage with the robotics field. Our various multi-disciplinary teams also competed internationally and upgraded hardware as necessary, which all contributed positively to our goal of promoting robotics.

Outlined below is a summary of UTRA's various different teams and initiatives, all of which are focussed on increasing engagement and interest for robotics in the Skule and UofT community. Mainly, the funding was used to carry out in-person activities that provided students with practical and hands-on experience with designing and building complex robots.

UTRAHacks, supported by CPSIF, was run for the first time this year since 2018 and brought together over 100 undergraduates interested in robotics to build a community. The event included two challenges over 24 hours - an autonomous maze-navigation robot or an open-ended mechatronic system - with customized robotics kits, technical support, and workshops provided to hackers. The event also featured a panel event and meet-and-greet with key figures in the UofT Robotics research community.

Participants at UTRAHacks

The Autonomous Rover Team (ART) was able to upgrade the hardware design of the rover by installing a water-proof enclosure, improved motor controllers, and an on-board display. Moreover, the funding allowed ART to re-haul their software architecture, and improve their sensor-stack by adding a second LIDAR. ART will return to the Intelligent Ground Vehicle Competition at Oakland University in June 2023 where they will represent the Skule community.

ART's kickoff event

autonomous rover design.

The Light Combat Team develops robots that have the purpose of destroying and disabling the competitor robot. The funding was used to attend the UIUC Robobrawl Competition and replace robot parts as needed. Specifically, the robot's weapon was damaged after competition, and the funding made it possible to construct an upgraded weapon design. With an improved design, the team plans to attend another competition at Norfolk, which will be partially funded by CPSIF.

UIUC Robobrawl Competition

The Sumo team's goal is to create a simulated version of an autonomous robot with IR range sensors to detect the edge of the ring. Two "sumo" robots are spawned in a black circular ring with a white border; the two simulated robots try to push one another out of the ring, the last robot in the ring wins. As Sumo had not run in several years, all the kit parts were newly purchased this year with the funds, allowing the team to get hands-on experience with robotics.

Sumo Team

The RoboSoccer team is able to prepare for the Robocup 2023 thanks to the financial support from the CPSIF. The funding partially covers their travel expenses and competition enrollment costs, enabling the team to focus on improving their robot's structural rigidity and developing their strategy software for the upcoming 4v4 soccer match.

Alumni guests:

a. Elijah Tai, (2017 Computer Engineering graduate from UofT)
b. Aditya Jain, (current Masters student at the UofT Institute for Aerospace Studies)
c. Sven Lilge, (current doctoral student in Computer Science at UofT.)

University of Toronto Seismic Design Team

Total Funding Awarded	**$3,000**
CivMin	$1,000
DO / EAN	$1,000
EngSoc	$1,000

Thanks to the funding provided through CPSIF, our team was able to design and construct an earthquake resistant balsa wood tower to compete at the 2023 EERI Seismic Design Competition in San Francisco, California, United States.

Our Design Team during the Competition.

(*From Left: Ishaan, Arman, Grace, Bright, Mihir, Kaision, Joyce, Queena, Michael)*

As the only UofT engineering design team that focuses on structural and seismic engineering, our team provides our members with valuable opportunities to explore civil, structural, and seismic engineering concepts through a hands-on design project. Working in a multidisciplinary team of civil engineering, electrical & computer engineering, mathematics/physics specialist, commerce, and architecture students, our members learn how to independently manage projects, use industry standard modelling and analysis software, and expand their knowledge of seismic engineering concepts. We also host tutorials and workshops where students from the engineering community and beyond can learn how to use modelling software and participate in the construction process. The experience and skills that our members gain is often hard to develop through other civil engineering design teams and course projects and will continue to benefit them in their professional and academic careers.

Moreover, the team actively collaborated with other clubs and design teams at the University to help build a vibrant spirt in the broader community. The team invited members from the Concrete Canoe to aid in the construction of the tower and we also had our own members go work on the concrete design in the other team.

We also organized a series of recorded earthquake-engineering tutorials that are publicly posted on our YouTube channel. These tutorial sessions helped train new members of our team and attracted participants from the Skule community and beyond.

The funding provided freedom to pursue our club's primary purpose without any financial limitations was important for us to maintain our mission of pursuing and promoting an understanding of structural engineering and seismically resilient structures.

The majority of CPSIF funding used to buy equipment and materials to construct towers which were submitted to competition. This

included adhesives, balsa wood, saws, plywood for shipping crate, etc.

Pictures of the Tower that the Team Constructed.

The funds also paid for our posters and other advertisements to represent the university and our design team at the competition. Due to an increase in the cost of supplies due to inflation and supply chain issues we were only able to build one tower, as it was more expensive than previous years. After the competition, we got more ideas about how to improve our construction. Without the funding, it will be harder for us to try new technology that help innovate our construction and design process for the competition such as laser cutting, and 3D printing of construction jigs.

Our team worked closely with the University of Toronto Earthquake Engineering Research Institute (UT-EERI) Student Chapter for mentorship and industry relations building. The team often met with UT-EERI members to update them on our progress and seek advice on technical challenges. We had active communication with two PHD students Marawan Zaki (Alumni) and Pedram Mortazavi, who assisted the team with any technical issues and provided advice. Moreover, we had previous undergraduate alumni attend (Daniel Pekar, Kota Abe, Liam Ma, Jinbo Yu, Maher Absar, Alex Vespa) social events to catch up and meet the new design team as well. We sometime seek advice from the previous alumni in the event we face any major construction or design issues that our team need guidance to solve. Our alumni also help set up an office tour event with the consulting engineering company WSP for our team members to establish connections within the engineering industry.

Alumni attending our social event.

(*From left: Alex, Jinbo, Daniel and Kota.)*

University of Toronto Supermileage Team

Total Funding Awarded	**$5,703.55**
EngSoc	$1,881.35
EngSci	$500
DO / EAN	$2,822
ChemE	$500

Several initiatives were undergone this year by the University of Toronto Supermileage Team. Our team had two major focuses this 2022-2023 year; to compete with our gasoline Prototype vehicle, and to further develop our Urban Concept Hydrogen vehicle.

This year, our club's major new development has been the Urban Concept hydrogen car, which is now leaving its design phase and has entered the first half of its build phase. To achieve this significant milestone, our team has undergone various economic endeavors over the past two terms, and the CPSIF funding has played a crucial role in our club's success and development. The funds were utilized to purchase many components for the car, including an entirely new braking system, wheels, rims, and iterative updates to our powertrain, particularly in the dynamic areas of the car. The development and manufacturing of our new aluminum chassis, a major milestone for this car's development, was also a very considerable expense for our team this year. Moreover, CPSIF funds were used for testing rigs to fine-tune the assemblies and ensure adequate assembly and function.

The University of Toronto Supermileage Team is pictured with their prototype vehicle for Shell Ecomarathon Americas 2023 hosted at the Indianapolis Motor Speedway.

(From left: Ishaan Mohan Gupta, Peter Di Palma, Maya Edie-Maxsom, Jake Blimkie, Shreyansh Nair, Andrew Radke, Aidan Torres, Shannon TO Lee, Keira Martin.)

Our hydrogen fuel cell, which is the heart of the car, has also benefited from CPSIF funding, and exciting progress has been made in this area with the beginning of lab testing and assembly. One of the key challenges that our team has faced in developing the Urban Concept vehicle is building and testing a telemetry system that can monitor the power source's performance. This is where the funding provided by the donor has made a significant impact. With the financial resources available, our team was able to purchase critical items for our electrical division that were necessary for building and testing the telemetry system. For instance, we purchased resistors to build a load bank, which is used to test the hydrogen fuel cell's performance under different conditions. The load bank provides a constant electrical load that simulates the vehicle's power requirements, enabling us to optimize the design of the power source and ensure that it

meets the demands of real-world driving conditions. This has been a crucial step in our quest to create a sustainable future through the development of innovative transportation solutions.

At SEMA 2023, the prototype team performs some final adjustments to the powertrain before it hits the track. Pictured: Aidan Torres, Peter Di Palma.

The CPSIF funding was instrumental in enabling the prototype team to compete at a high level by implementing several design improvements. This year, the team prioritized improving the reliability of the vehicle, and consequently conducted extensive diagnostic testing on the vehicle powertrain, requiring long-duration periods of engine running and adequate safety measures. With the CPSIF funds, the team developed an engine-testing station, enabling safe testing and tuning of engine parameters for optimal energy efficiency. These improvements resulted in several successful track-day tests and a 400% increase in completed laps. CPSIF funding also supported the team's attendance at the Shell Ecomarathon Americas 2023 regional competition at the Indianapolis Motor Speedway. The financial support facilitated the team's travel to the event, where they showcased their engineering prowess, networked with industry leaders, and established connections with students from around the world. Thanks to the support of the CPSIF, the prototype team was able to finish in 1st place for fastest technical inspection of the vehicle.

The University of Toronto Supermileage Team's prototype vehicle races across the main straight of the Indianapolis Motor Speedway.

Alumni guests:

a. Christine Yaromich
b. Tyler Barry
c. Melissa Fung
d. Mengqi Wang

University of Toronto Toastmasters

Total Funding Awarded	**$500**
EngSci	$100
EngSoc	$400

Toastmasters meeting

CPSIF funding was effectively utilized to cover membership payments for new incoming students. By leveraging available funds, our club attempted to remove financial barriers and promote inclusivity within our organization. This approach not only encouraged participation from a diverse range of students but also fostered a sense of belonging and engagement within the campus community. The allocated funds were allocated responsibly, ensuring that the membership fees were covered without compromising the club's operational expenses.

This use of club funding demonstrated a commitment to student welfare and facilitated the integration of new members into the vibrant and enriching club culture on campus.

CPSIF funding played a pivotal role in covering promotional expenses such as emails, websites, and social media advertising. By allocating funds towards these channels, clubs were able to reach our target audience and raise awareness about Toastmasters' activities and events. Emails served as a direct and personalized means of communication, allowing clubs to engage with members and provide updates. Websites provide a central hub of information, showcasing club missions, activities, and resources. Social media advertising proved instrumental in expanding the reach and attracting a broader audience through targeted campaigns. These promotional efforts not only increased visibility but also fostered a sense of community and encouraged active participation within the clubs. By utilizing club funding for these purposes, clubs demonstrated a strategic approach to marketing and communication, resulting in enhanced engagement, increased membership, and a stronger presence on campus.

Club funding was wisely utilized to cover the cost of a new microphone, which played a crucial role in supporting those who attended virtual club sessions. With the shift to online platforms, clear and reliable audio became paramount to ensuring effective communication and engagement. The new microphone significantly improved the overall audio quality, reducing background noise and enhancing the clarity of voices during virtual meetings and events. This investment was important as it greatly enhanced the virtual club experience, enabling members to participate,

share ideas, and collaborate seamlessly and actively. By utilizing club funding for this purpose, we seek to demonstrate our commitment to providing an inclusive and high-quality experience for their members, regardless of the virtual setting.

Finally, CPSIF funding was used for open house expenses which are comprised of food and beverage expenses. New guest attendees are expected during the open house and offering food and beverages serves as a gesture of hospitality and enhances the overall experience. We seek to create a welcoming atmosphere that encouraged interaction amongst members. Beverages and snacks acted as conversation starters, facilitating social connections and fostering a sense of ease among members and guests. This use of club funding demonstrated a commitment to creating a positive environment, where individuals could feel comfortable, engaged, and motivated to participate in club activities.

Alumni Engagement

Our public speaking club warmly welcomes individuals from all walks of life, including alumni who share a passion for effective communication. We believe in fostering a diverse and inclusive community that values the contributions and experiences of our alumni. Participating alumni have the opportunity to engage in various club activities, such as workshops, speeches, and mentoring sessions, alongside current students and fellow club members. If they so choose, alumni have the option to become official members of the club, enabling them to access additional benefits like leadership opportunities, networking events, and continued skill development.

It is worth noting that our club has had the privilege of witnessing the return of several alumni who were active participants in the public speaking club during their time as students in past years. Their return has not only enriched our club's history but also served as a testament to the enduring impact of our community. We embrace the opportunity to reconnect with our alumni, nurturing a supportive environment where they can share their expertise, insights, and experiences with current members. The presence of these returning alumni not only inspires our current participants but also reinforces the lifelong value and impact of being a member of our public speaking club.

University of Toronto Varsity Dance Team

Total Funding Awarded	**$450**
DO / EAN	$250
YNCN	$200

This past 22/23 season was monumental for the UofT Varsity Dance Team. The team won all three intercollegiate competitions against over 20 schools across Canada, never achieved in history before (at UofT or any Canadian University). See our features in the UofT official newspaper, The Varsity and the KPE page, highlighting some key moments from the past year.

Champions of "BeU"

Additionally, for the first time ever, we held two sold-out showcase performances at Hart House Theatre (February and April) for friends, family, and alumni to enjoy. We have also held open workshops in collaboration with the Theatre to engage the greater UofT community and share our passion for the art.

Champions of "Strive Competition"

As leadership, we pushed our fundraising this past season, aiming to alleviate the expensive financial burden on our members. Funds raised this season, including those from CPSIP, were used to reduce competition fees per dancer and increase the budget for higher costuming quality.

For reference, competition fees are itemized per dancer, per routine size (# of dancers in a group). To enter the team in three competitions this past season costed $7,169.85, $9,586.98, and $11,161.02 respectively (majority of which is paid out of pocket).

The 22/23 team included a sub-community of seven engineering females (out of 44 in total) who had naturally fostered an engineering mentoring program. The senior students were able to guide the first year students with their wisdom, connecting over their passion for the art. With a large engineering presence on the team, many other engineering students within the Skule community attended the Showcase performances and competitions to support the team in our successful season. Recognition within the engineering community (including

Dean Yip) has been an incredibly memorable moment from this past year.

The team currently does not have a formalized alumni network but aims to build one in the 23/24 season. We had around 10-20 alumni come support and view the teams performances, at our showcase at Hart House Theatre (February and April), and at our intercollegiate competitions in the GTA (March)

Contemporary Line "End of Love"

Jazz Line "Nobody's Supposed To Be Here"

UTWind

Total Funding Awarded	**$7,300**
ChemE	$100
DO / EAN	$3,000
ECE	$1,500
EngSci	$500
EngSoc	$1,000
MIE	$700
YNCN	$500

UTWind is the University of Toronto's wind turbine design team. Last year was our first year of operation and thanks to the CPSIF, we succeeded in building a turbine that won the award for best overall turbine in the International Small Wind Turbine Contest (ISWTC) in the Netherlands in June 2022. This year we hope to repeat our success from last year at the ISWTC taking place later this year in June 2023. The funding we received from the CPSIF will be instrumental to our success this year as it has enabled our team to go above and beyond what was possible just a year ago.

The funding was used to purchase materials and equipment critical to both the wind turbine's functionality and the longevity of the team. One such example was a 3D Printer used to fabricate various critical components of our wind turbine such as gears, structural parts, and most importantly the blades of our turbine. The funding was also used to purchase a motor that was essential to testing our generator which dictates the turbine's power output. This is one of the key metrics that dictates how efficient a given wind turbine is. The electronics, such as a raspberry pi and several PCBs that control various aspects of the turbine such as the pitch control mechanism, was another area the funding was used for. The remaining funding will also be used to partially cover the cost of flights for the students who will travel to the Netherlands later this year to participate in the ISWTC. This funding is the sole reason we are able to send a team of students to an international competition where they will have the opportunity to learn from both world experts in the field of wind energy and from students on other teams across the globe.

ANSYS workshop for our Mechanical team

L-R Front Row: Julia Bains, Damian Lungowski, Elena Sloan, Ashley Best, David Petriw
L-R Back row: Nathan Atienza Salvador, Ashlyn Abdelmaseeh, Zainab Ali

The CPSIF helped foster the development of a strong community within our club. When the project began, our team was composed of a wide variety of members from many different disciplines of engineering including CivilEng, ChemEng, MechEng, MSE, ECE, and EngSci. Many of these students hadn't interacted with others outside of their discipline, but over a year of continually working with one another, these students formed great friendships and developed a strong sense of community amongst themselves, learning an incredible amount about not just wind turbines, but also topics from other disciplines that their own courses never taught them. The funds provided by the CPSIF ensured that UTWind had the resources necessary to keep the project going, which enabled the students to form a strong interdisciplinary community. We hope to continue to expand our community and plan to invite alumni and industry professionals to be speakers and coaches in subsequent years.

UTWind's Aerodynamics team testing various surface finishings on wind turbine blades.

L-R Front Row: Daniel Chua, Jia Hui Yu, Luckya Xiao, Robert Zhao, Anna Jung
L-R Back row: Alison Okumura, Julia Bains, Nathan Atienza Salvador, Ashlyn Abdelmaseeh, Damian Lungowski, David Petriw

The funding provided by the CPSIF was important to UTWind because it enabled us to not only realize our goals but surpass them. It helped us obtain the materials and resources needed to give the students the ability to design, build, and test their very own wind turbine. This will once again allow us to compete at the ISWTC and potentially win the prize for the best overall wind turbine for a second year in a row.

The primary goal of UTWind has always been to provide students an opportunity to apply their classroom knowledge to a real-world engineering project so that they can learn from all the challenges that normally would not apply in a classroom environment. We provided numerous workshops and training for our members, and created a collaborative environment where students learned how to function in a diverse and interdisciplinary engineering team while also forging deep professional connections and friendships on the way. UTWind succeeded in achieving both these goals this year as a direct result of the funding we received from the CPSIF.

Workshop on on the fundamentals of aerodynamics for the Aerodynamics team

L-R: Jia Hui Yu, Andre Li, Suraj Bansal, Patty Liu, Angela Deng, Daniel Chua

Water and Environment Association of Ontario UofT Chapter (WEAO UofT)

Total Funding Awarded	**$1,700**
ChemE	$200
CivMin	$150
DO / EAN	$800
EngSci	$200
MIE	$250
YNCN	$100

The funding was used to facilitate professional development in the water/wastewater industry through many events in many forms. For example, the R.C. Harris Water Treatment Plant tour was organized to encourage students to participate and have exposure to the drinking water treatment of the City of Toronto, familiarize themselves with water treatment technologies, methodologies, and so on. There are also other events such as online panel discussions where experienced industry professionals share related information in the industry as well as their stories exploring various fields. For example, speakers from Jacobs, and Toronto Inspection Ltd were sharing information with consulting life in the water/wastewater industry. There was also a movie night on a documentary.

All the events would not have happened without the support from CPSIF funding. It has been used to support in-person events with transportation to tours, food, and beverages during the events, and souvenirs to event speakers as a token of our appreciation for the industrial network. It was also used for WEAO membership fee for executive members to access networking events hosted by WEAO.

Participants in hosted events would have advancement in the exposure to many water-related fields out of textbook knowledge, gain in networking with professionals, and experience with industrial plant.Yourong Li was a speaker in a panel discussion.

R. C. Harris Water Treatment Plant tour

Movie Night (Sepehr Hoomani Rad, Meimenat Mohajer, Sicheng Li, Patrick Tyrrell