



2026 Undergraduate Student Research Opportunities

To assist undergraduate students in finding faculty supervisors for summer research, the following Engineering faculty have submitted their research positions available for undergraduate students.

Please note that this is not an exhaustive list. Students should contact faculty members directly to inquire about their availability to support undergraduate summer research students.

N.B., An asterisk () following the name of a professor indicates that they are interested in supporting a faculty-student matching process for the NSERC Black and Indigenous USRAs. For more information, please visit: <https://forms.office.com/r/U8tVzCAcAN>*

Professor Name	Ravi Adve*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Electrical & Computer Engineering (ECE)
Name of Research Area/Lab	Wireless communications
Description of Lab	We work on various topics in wireless communications.
Research Location	On Site
How to Apply	Email directly (rsadve@ece.utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	February 28, 2026
Additional Comments	N/A



Professor Name	Grant Allen
Undergraduate Positions Available for Summer 2026	2
Department/Division	Chemical Engineering & Applied Chemistry (ChemE)
Name of Research Area/Lab	Bioprocesses to Convert Waste to Value Added Products
Description of Lab	More information can be found on our website: <ul style="list-style-type: none">• https://chem-eng.utoronto.ca/faculty-staff/faculty-members/d-grant-allen/
Research Location	On Site
How to Apply	Email directly (dgrant.allen@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	March 6, 2026
Additional Comments	N/A



Professor Name	Cristina Amon*
Undergraduate Positions Available for Summer 2026	2
Department/Division	Mechanical & Industrial Engineering (MIE)
Name of Research Area/Lab	Atoms Lab: Nanoscale Transport Phenomena, Electric Vehicle Batteries and Chargers, Bioengineering and Biomedical Devices, Energy Systems Soil and Water Pollution
Description of Lab	More information can be found on our website: <ul style="list-style-type: none">• https://atoms.mie.utoronto.ca/
Research Location	On Site
How to Apply	Email directly (cristina.amon@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	March 2, 2026
Additional Comments	N/A



Professor Name	Ali Asgarian*
Undergraduate Positions Available for Summer 2026	3
Department/Division	Materials Science & Engineering (MSE)
Name of Research Area/Lab	ASPiRE Lab
Description of Lab	<p>At ASPiRE Lab (ASgarian's Process & Powder Intelligent REsearch), we integrate advanced simulation with artificial intelligence, vision/sensing, and automation to transform material processes and powder technologies. Our vision is to drive creativity and innovation that enhance energy and resource efficiency while reducing the carbon footprint of the metallurgical and materials-processing industries.</p> <p>Three projects will be available for undergraduate summer research, all in collaboration with steel plants, to:</p> <ul style="list-style-type: none">• Develop a digital twin for a steel continuous-casting mould• Develop a semi-autonomous, lab-scale galvanizing process
Research Location	On Site
How to Apply	Email directly (ali.asgarian@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	March 16, 2026
Additional Comments	Minimum cGPA requirement: B-



Professor Name	Gisele Azimi*
Undergraduate Positions Available for Summer 2026	3
Department/Division	Chemical Engineering & Applied Chemistry (ChemE)
Name of Research Area/Lab	Laboratory for Strategic Materials
Description of Lab	More information can be found on our website: <ul style="list-style-type: none">• https://azimilab.ca/landing
Research Location	On Site
How to Apply	Email directly (g.azimi@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	February 14, 2026
Additional Comments	Minimum cGPA requirement: 3.7



Professor Name	Mohammed Adam Abbaker Basheer*
Undergraduate Positions Available for Summer 2026	2
Department/Division	Civil & Mineral Engineering (CivMin)
Name of Research Area/Lab	Water Resources and Hydrology
Description of Lab	Lab website: https://wrh.civmin.utoronto.ca/ Our group covers water resources planning and management, hydropower planning and operations, the water-energy-food nexus, water resources economics, and coupled human-water systems. Our approaches help plan sustainable water infrastructure, considering engineering and socio-economic dimensions while adapting to future uncertainties such as climate change. We develop innovative, interdisciplinary approaches to water resources planning and management at scales ranging from small watersheds to provincial and regional systems, bridging the gap between data and decisions.
Research Location	Hybrid
How to Apply	Apply via Submission Link: https://forms.office.com/r/RCq4DvyjKn You will be required to submit the following items: <ul style="list-style-type: none">• Unofficial Transcript• Text describing what motivates you to join our research group and what you hope to achieve personally and professionally [maximum 300 words]
Deadline to Apply	February 15, 2026
Additional Comments	Minimum cGPA requirement: A-



Professor Name	Justin Beland*
Undergraduate Positions Available for Summer 2026	1-2
Department/Division	Mechanical & Industrial Engineering (MIE)
Name of Research Area/Lab	Probabilistic modeling and optimization
Description of Lab	Working on probabilistic modeling and optimization problems
Research Location	Hybrid
How to Apply	Email directly (justin.beland@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	March 26, 2026
Additional Comments	Minimum cGPA requirement: 78%



Professor Name	Timothy Bender*
Undergraduate Positions Available for Summer 2026	TBD
Department/Division	Chemical Engineering & Applied Chemistry (ChemE)
Name of Research Area/Lab	Chemical Engineering and Applied Chemistry
Description of Lab	Sustainable Materials to Develop and Apply to Several Things, Sustainable Chemical Processes, etc.
Research Location	On Site
How to Apply	Email directly (tim.bender@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	March 20, 2026
Additional Comments	N/A



Professor Name	Neelesh Bhadwal
Undergraduate Positions Available for Summer 2026	1
Department/Division	Mechanical & Industrial Engineering (MIE)
Name of Research Area/Lab	Mechatronics and Microsystems Design Lab
Description of Lab	<p>Project Name: Lead-Free Piezoelectric Materials for Energy Harvesting</p> <p>Faculty Supervisor: Dr. Ridha Ben Mrad and Dr. Kamran Behdinan (Co-Supervisor)</p> <p>Position: Undergraduate Research Assistant (Summer 2026 May 1st to August 31st)</p> <p>Eligibility: Undergraduate students in Mechanical & Industrial Engineering (MIE)</p> <p>Project Overview Piezoelectric materials convert mechanical vibrations into electrical energy, making them promising for energy harvesting applications. While lead-based piezoelectric materials offer high energy conversion efficiency, their toxicity and environmental impact have raised concerns, leading to restrictions on their future use.</p> <p>This project focuses on developing lead-free piezoelectric nanostructures for energy harvesting. Various dopants will be explored to enhance piezoelectric properties, and their effects will be systematically characterized. This research is highly interdisciplinary, combining materials science, mechatronics, and chemistry to drive innovation in sustainable energy solutions.</p>
Research Location	On Site
How to Apply	Email directly (neesh.bhadwal@mail.utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	February 4, 2026
Additional Comments	Minimum cGPA requirement: 3.5



Professor Name	Elaine Biddiss
Undergraduate Positions Available for Summer 2026	2
Department/Division	Institute of Biomedical Engineering (BME)
Name of Research Area/Lab	Possibility Engineering And Research Lab (PEARL)
Description of Lab	More information can be found on our website: <ul style="list-style-type: none">• https://hollandbloorview.ca/research-education/bloorview-research-institute/research-centres-labs/pearl-lab
Research Location	On Site
How to Apply	Email directly (ebiddiss@hollandbloorview.ca) and copy Ajmal Khan (akhan@hollandbloorview.ca) with the following items: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	February 13, 2026
Additional Comments	Minimum cGPA requirement: 3.8



Professor Name	Trevor Carey*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Civil & Mineral Engineering (CivMin)
Name of Research Area/Lab	Carey lab
Description of Lab	The summer student will assist with and lead laboratory testing on sands and clays to study their cyclic resistance under earthquake loading. Responsibilities include specimen preparation, execution of cyclic tests, and interpretation of soil response to repeated seismic loading.
Research Location	On Site
How to Apply	Email directly (trevor.carey@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	February 10, 2026
Additional Comments	N/A



Professor Name	Levente Diosady*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Chemical Engineering & Applied Chemistry (ChemE)
Name of Research Area/Lab	Food Engineering
Description of Lab	We will have projects on fortification of salt, tea and soft drinks for prevention of anemia and birth defects due to folic acid deficiency. We also have a project on developing an AI based, searchable database for micronutrient fortification.
Research Location	On Site
How to Apply	Email directly (l.diosady@utoronto.ca) with the following items: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	March 31, 2026
Additional Comments	N/A



Professor Name	Ali Dolatabadi*
Undergraduate Positions Available for Summer 2026	2
Department/Division	Mechanical & Industrial Engineering (MIE)
Name of Research Area/Lab	MIND lab
Description of Lab	Multidisciplinary lab focusing on multiphase flows, heat transfer, and thermal spray coatings.
Research Location	On Site
How to Apply	Email directly (ali.dolatabadi@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	February 6, 2026
Additional Comments	N/A



Professor Name	Birsen Donmez*
Undergraduate Positions Available for Summer 2026	4
Department/Division	Mechanical & Industrial Engineering (MIE)
Name of Research Area/Lab	Human Factors and Applied Statistics Laboratory
Description of Lab	The HFASt Lab (https://hfast.mie.utoronto.ca/) conducts research on understanding and improving human behaviour and performance in multi-task and complex situations, using a wide range of analytical techniques. The research projects will relate to transportation safety, human subject experimentation in simulators, and data analytics.
Research Location	Hybrid
How to Apply	Email directly (donmez@mie.utoronto.ca) with the following items: <ul style="list-style-type: none">• Statement of why you are interested in our research group• Resume• Unofficial Transcript
Deadline to Apply	February 10, 2026
Additional Comments	Minimum cGPA requirement: 3.2



Professor Name	Greg Evans*
Undergraduate Positions Available for Summer 2026	1-2
Department/Division	Chemical Engineering & Applied Chemistry (ChemE)
Name of Research Area/Lab	SOCAAR
Description of Lab	Projects we expect to pursue this summer include: traffic-related air pollution and air quality in the new cross-town subway line.
Research Location	On Site
How to Apply	Email directly (greg.evans@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	February 28, 2026
Additional Comments	N/A



Professor Name	Ramin Farnood*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Chemical Engineering & Applied Chemistry (ChemE)
Name of Research Area/Lab	Solar Photocatalytic Conversion of Biomass
Description of Lab	Designing novel catalysts for converting underutilized biomass streams to valuable products using solar energy. This project will be conducted in a wet-lab environment.
Research Location	On Site
How to Apply	Email directly (ramin.farnood@utoronto.ca) with the following items: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	January 30, 2026
Additional Comments	Minimum cGPA requirement: 3.6



Professor Name	Kevin Golovin*
Undergraduate Positions Available for Summer 2026	4
Department/Division	Mechanical & Industrial Engineering (MIE)
Name of Research Area/Lab	DREAM Lab (coatings, surfaces, and interfacial phenomena)
Description of Lab	<ol style="list-style-type: none">1. Research on nonstick cookware degradation2. Research on PFAS-replacements for omniphobic coatings3. Self-driving laboratory automation/robotics, related to materials discovery acceleration4. Anti-icing and de-icing technologies <p>More info on the group's research directions may be found at https://golovin.mie.utoronto.ca/research/</p>
Research Location	On Site
How to Apply	Email directly (kevin.golovin@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	February 28, 2026
Additional Comments	N/A



Professor Name	Sarah Haines
Undergraduate Positions Available for Summer 2026	1-2
Department/Division	Civil & Mineral Engineering (CivMin)
Name of Research Area/Lab	Indoor Microbiology and Environmental Exposures (IMEE) Lab
Description of Lab	<p>The IMEE Lab is an interdisciplinary team under the Hub for Advancing Buildings, which investigates our indoor microbiome (bacteria, fungi and viruses) with the ultimate goal of improving human health. Work in this group mainly focuses on wet-lab microbial research (pipetting, DNA/RNA extractions, PCR) with additional field work for collection of samples (swabs, vacuums, etc).</p> <p>Project: Ever wonder why the caulking in your shower is mouldy? Want to research ways to prevent it? The IMEE lab is looking for a summer researcher to lead a small pilot study focused on mould growth on bathroom caulking. Researchers should have some experience working in a lab setting and be interested in running laboratory based experiments that have real-world applications.</p> <p>Available summer research project is subject to the student holding a summer research award, i.e., USRA, UTEA, etc.</p>
Research Location	On Site
How to Apply	Email directly (s.haines@utoronto.ca) with the following items: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	February 20, 2026
Additional Comments	Applicants should indicate via email why they believe they would be a good fit for this position.



Professor Name	Jason Hattrick-Simpers*
Undergraduate Positions Available for Summer 2026	2-3
Department/Division	Materials Science & Engineering (MSE)
Name of Research Area/Lab	AUTODIAL (Autonomous Discovery of Alloys)
Description of Lab	More information can be found on our website: <ul style="list-style-type: none">• https://autodiallab.ca/
Research Location	Hybrid
How to Apply	Email directly (jason.hattrick.simpers@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript• GitHub repository, if applicable
Deadline to Apply	February 2, 2026
Additional Comments	Minimum cGPA requirement: 3.5



Professor Name	Amr Helmy*
Undergraduate Positions Available for Summer 2026	3
Department/Division	Engineering Science (EngSci); Electrical & Computer Engineering (ECE)
Name of Research Area/Lab	Photonics
Description of Lab	More information can be found on our website: <ul style="list-style-type: none">• https://opto.light.utoronto.ca/helmy/
Research Location	On Site
How to Apply	Email directly (a.helmy@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	January 31, 2026
Additional Comments	Minimum cGPA requirement: 80%



Professor Name	Ronald Hofmann*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Civil & Mineral Engineering (CivMin)
Name of Research Area/Lab	Drinking water research group
Description of Lab	A summer student will be employed to assist a senior PhD student in laboratory-based research related to improved drinking water treatment. The exact nature of the research is to be determined, as the student may work on several different projects. Candidate projects include using activated carbon to remove contaminants, or experiments to test the effectiveness of different disinfectants. No background experience is necessary, other than having an interest in drinking water treatment or environmental engineering.
Research Location	On Site
How to Apply	Email directly (ron.hofmann@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	February 13, 2026
Additional Comments	Email should express rationale for interest.



Professor Name	R. Douglas Hooton
Undergraduate Positions Available for Summer 2026	1-2
Department/Division	Civil & Mineral Engineering (CivMin)
Name of Research Area/Lab	Concrete Materials Laboratories
Description of Lab	Summer students will be employed to assist a PhD student or post-doctoral fellow in laboratory-based experimental research related to improving sustainability and durability of cements and concrete. The exact nature of the research is to be determined, as the students may work on several different projects. Projects include assessing the reactivity of novel cementitious materials; development of accelerated test methods for assessing durability of concretes.
Research Location	On Site
How to Apply	Email directly (d.hooton@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter expressing the reason for your interest• Resume• Unofficial Transcript
Deadline to Apply	February 28, 2026
Additional Comments	Civil Engineering students who have completed CIV209 are preferred.



Professor Name	Jane Howe*
Undergraduate Positions Available for Summer 2026	3
Department/Division	Materials Science & Engineering (MSE)
Name of Research Area/Lab	Electron microscopy, 3D reconstruction, nuclear materials, energy materials, materials characterization
Description of Lab	More information can be found on the following websites: <ul style="list-style-type: none">• https://insitumicroscopy.ca• https://scholar.google.com/citations?user=8JLqjzEAAAAJ&hl=en• https://mse.utoronto.ca/faculty-staff/professors/howe-jane/
Research Location	On Site
How to Apply	Email directly (jane.howe@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	February 19, 2026
Additional Comments	Minimum cGPA requirement: 3.3



Professor Name	Kai Huang*
Undergraduate Positions Available for Summer 2026	1-3
Department/Division	Materials Science & Engineering (MSE)
Name of Research Area/Lab	Nanophotonics and nanomaterials
Description of Lab	<p>We develop unconventional luminescence nanomaterials—particularly lanthanide-doped upconversion and persistent luminescence nanoparticles—using nanoengineering strategies (lanthanide doping, energy-structure design, and inter/intra-particle energy transfer), wet chemistry or solid-state synthesis (https://kaihuang-nano.weebly.com/).</p> <p>Available summer research projects (subject to the student holding a summer research award, i.e., USRA, UTEA, etc.):</p> <ol style="list-style-type: none">1. Lanthanide recycling / circular materials chemistry: develop recycling strategies to recover rare earth elements (critical minerals in Canada) from end-of-life materials (e.g., phosphors from waste/broken electronics) and reuse the recovered lanthanides to produce advanced luminescent nanomaterials, including persistent luminescence nanoparticles. Typical activities may include rapid materials decomposition (e.g., microwave-assisted hydrolysis), lanthanide separation/purification (e.g., chelation-based refining), and resynthesis with optical/structural characterization.2. Novel luminescent lanthanide nanocrystals: design and synthesize new lanthanide-based nanocrystals (including heterostructured/core-shell architectures) to tune emission wavelength and lifetime and improve performance for bioimaging, biosensing, and photonic applications.
Research Location	On Site
How to Apply	Email directly (nanokai.huang@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	February 22, 2026
Additional Comments	The applicant should demonstrate a strong background in materials chemistry/inorganic chemistry.



Professor Name	Greg Jamieson*
Undergraduate Positions Available for Summer 2026	Minimum 2
Department/Division	Mechanical & Industrial Engineering (MIE)
Name of Research Area/Lab	Cognitive Engineering Lab
Description of Lab	<p>The Cognitive Engineering Lab focuses on human-automation interaction in complex, safety-critical systems.</p> <p>The research project examines operator performance in controlling small modular reactors (SMRs). The undergraduate student will support a PhD student by assisting with preparation for data collection, data cleaning, and analysis of data from human-subject experiments.</p>
Research Location	Hybrid
How to Apply	<p>Email directly (greg.jamieson@utoronto.ca) with the following items, in a single PDF:</p> <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	February 16, 2026
Additional Comments	Minimum cGPA requirement: 3.0



Professor Name	Mark Jeffrey*
Undergraduate Positions Available for Summer 2026	3
Department/Division	Electrical & Computer Engineering (ECE)
Name of Research Area/Lab	Computer architecture, computer systems, compilers, and parallel programming
Description of Lab	<p>On the concurrency and parallelism front, we are developing and implementing new parallel algorithms that eliminate costly barrier synchronization to make graph algorithms (e.g., Dijkstra's algorithm, A*, or circuit simulation) over 100 times faster on 100 cores.</p> <p>On the compilers front, we are enhancing the performance of task parallelism in the Rust programming language, involving hacking on rustc, LLVM, and writing/running Rust software benchmarks.</p> <p>On the computer systems front, we are expanding the capability of our recently proposed Attention-Level Speculation mechanism to improve performance of large language model inference.</p>
Research Location	Hybrid
How to Apply	Email directly (mark.jeffrey@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	February 6, 2026
Additional Comments	N/A



Professor Name	Charles Jia*
Undergraduate Positions Available for Summer 2026	Up to 10
Department/Division	Chemical Engineering & Applied Chemistry (ChemE)
Name of Research Area/Lab	Green Technologies Lab
Description of Lab	Biochar is carbon extracted from biomass where the carbon is captured by green plants via photosynthesis. In the Green Technologies Lab at the University of Toronto, we study biochar as an advanced nanoporous carbon functional material for applications that enhance sustainability, such as renewable energy storage and environmental remediation. These applications contribute to atmospheric carbon capture and are foundational to the development of nature-based climate solutions.
Research Location	Hybrid
How to Apply	Email directly (cq.jia@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	February 20, 2026
Additional Comments	Minimum cGPA requirement: 3.5



Professor Name	Dawn Kilkenny*
Undergraduate Positions Available for Summer 2026	2
Department/Division	Institute of Biomedical Engineering (BME)
Name of Research Area/Lab	3D Virtual Labs: Undergraduate Lab Training, Information Access, and Lab Navigation in the Institute of Biomedical Engineering Teaching Laboratory
Description of Lab	<p>The 3D IBME Teaching Lab Digital Twin is a web-based platform that allows students time to explore the IBME lab space virtually, become comfortable navigating the environment, and learn about lab equipment function. The 3D digital twin is currently being tested within the system is a generative AI chatbot, called the Virtual Teaching Lab Chatbot (VTLC). This AI system exclusively uses lab context documents to generate responses to student questions.</p> <p>The goal of the 3D Virtual Labs project is to improve lab access and preparedness for undergraduate biomedical engineering students. As we scale the project, we are looking for undergraduate students enthusiastic about the intersection of education and technology, with experience in either:</p> <ol style="list-style-type: none">1. Backend development in Node.js, Express.js, SQL (or other applicable experience in database programming), and (ideally) DevOps experience.2. Frontend development in HTML, CSS, React.js (or other applicable frontend web frameworks) along with frontend user interface design experience for the web. <p>In both cases, experience with game development and/or 3D graphics is an asset.</p>
Research Location	Hybrid
How to Apply	Email directly (dawn.kilkenny@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Concise Statement of Interest• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	March 30, 2026
Additional Comments	N/A



Professor Name	Dawn Kilkenny*
Undergraduate Positions Available for Summer 2026	2
Department/Division	Institute of Biomedical Engineering (BME)
Name of Research Area/Lab	Evaluating Discovery program impact on high secondary science students following pandemic learning disruptions
Description of Lab	<p>https://www.uoftdiscovery.ca/</p> <p>Discovery is a STEM collaboration between Faculty of Applied Science and Engineering (FASE) students and Toronto District School Board (TDSB) educators. Secondary students complete hands-on biomedical engineering-based STEM projects aligned with grade 11 and 12 Ontario science curricula. Each semester, participating students and educators visit FASE teaching laboratories for 4 day-long learning activities wherein participants complete group projects with mentorship from U of T graduate and undergraduate students. To validate these activities within the high school curriculum, educators assign 10-15% of their course grades to Discovery project deliverables. Pre-pandemic (2016-2019), 120-200 students from two TDSB partner schools participated in the program annually, and the following data were used to assess program impact on secondary student engagement and perception in STEM:</p> <ul style="list-style-type: none">i) Secondary student grades in Discovery deliverables vs. their course grades excluding the Discovery component (all grading performed by TDSB teachers);ii) Secondary student deliverable completion rates;iii) Frequency of secondary student absence during Discovery visits vs. typical classroom instruction days; andiv) Qualitative secondary and graduate student surveys. <p>Because the educational landscape has shifted since pandemic learning disruptions, we wish to evaluate how program impact on participants has changed and elucidate how the Discovery teaching & learning framework should be adapted; this will inform our own program as well as similar educational/outreach programs. The major goals of this project are to develop quantitative and possibly qualitative methodologies to analyze data on student academic performance data collected from 2025 programming (Spring and Fall), as well as Spring 2026 program. The summer undergraduate research assistant will perform statistical analyses of course versus Discovery deliverables,</p>



	and rates of secondary student absences during typical classroom instructional days and versus Discovery. Based on the findings, the research assistant will examine meaningful secondary student subgroups of interest using defined criteria and may propose and evaluate their own metrics based on emerging trends in the data. The research assistant will develop quantitative models or perform analyses, such as an Ordinary Least Squares (OLS) model or Principal Component Analysis (PCA) to compare the impact of Discovery pre- and post-pandemic. If time permits, the research assistant will have the opportunity to perform qualitative analyses of surveys collected Discovery participants or graduate student mentors.
Research Location	Hybrid
How to Apply	Email directly (dawn.kilkenny@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Concise Statement of Interest• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	March 30, 2026
Additional Comments	N/A



Professor Name	Oh-Sung Kwon*
Undergraduate Positions Available for Summer 2026	3
Department/Division	Civil & Mineral Engineering (CivMin)
Name of Research Area/Lab	Advanced Modelling and Hybrid Simulation Research Group
Description of Lab	<p>I typically recruit approximately three undergraduate students each summer who have an interest in structural engineering. These students support graduate students with laboratory activities, assist in processing experimental data, conduct literature reviews, and carry out small, well-defined projects that can be completed within the summer term.</p> <p>https://kwon.civmin.utoronto.ca/</p>
Research Location	On Site
How to Apply	Email directly (os.kwon@utoronto.ca) with the following items: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	February 1, 2026
Additional Comments	Applicants should demonstrate a strong interest in structural engineering and possess good communication skills.



Professor Name	Janet Lam*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Mechanical & Industrial Engineering (MIE)
Name of Research Area/Lab	Engineering Education
Description of Lab	<p>Active learning tool development for probability & statistics</p> <p>Active learning is an effective way to engage students in the classroom with the learning objectives of the day. Specifically in the probability and statistics domain, there's an opportunity to collect empirical data from the students to illustrate distributions and naturally occurring phenomena.</p> <p>In this project, participants will be tasked with developing a web application that collects data from individuals (students) and visualizes them on the instructor's computer for salient learning modules. Each learning module will collect different types of data to illustrate a new probability concept, such as random variables, the convergence of binomial distribution to the normal distribution, sampling distributions, and so on.</p>
Research Location	Hybrid
How to Apply	<p>Email directly (jy.lam@utoronto.ca) with the following items, in a single PDF:</p> <ul style="list-style-type: none">• One or two-paragraph Statement of Interest• Resume• Unofficial Transcript• Sample of Work: link to online portfolio, Shiny app, Github, etc.
Deadline to Apply	February 9, 2026
Additional Comments	Students must be awarded a summer research award to participate in this research opportunity.



Professor Name	Carlos Da Silva Leal*
Undergraduate Positions Available for Summer 2026	2
Department/Division	Mechanical & Industrial Engineering (MIE)
Name of Research Area/Lab	ATOMS Laboratory
Description of Lab	<p>ATOMS Laboratory specializes in advanced thermal management innovations for batteries, electric vehicles, and power electronics. The lab integrates high-fidelity simulations with experimental validation in its state-of-the-art Thermal Management Systems facility, enabling rapid thermal characterization and design optimization frameworks. With expertise spanning thermally enhanced lifespan extension, thermal runaway mitigation, fast-charging, and temperature-modulated degradation mechanisms, ATOMS provides physics- and data-driven insights that shorten development timelines and enhance system safety. Its partnerships with leading automotive OEMs and energy-storage companies uniquely position the lab to deliver scalable, industry-ready solutions for next-generation e-mobility.</p> <p>ATOMS Laboratory is seeking an enthusiastic summer research intern to develop an automated post-processing workflow for transient infrared (IR) temperature data from large-format lithium-ion battery cells, including algorithms to sample representative temperature locations across the cell surface from 2D temperature contour plots. The intern will work with experimentally obtained IR temperature contours and apply custom-built algorithms and data-driven analysis to convert these contours into structured datasets, and select sampling points informed by temperature gradients for subsequent thermal characterization of anisotropic thermophysical properties. The main goal is to develop an automated, user-friendly tool that captures the key spatial and temporal behaviour of the experimental data while allowing flexible choices of sampling methods. Second-year Engineering Science students and upwards will be preferred, with programming skills (e.g., Python) and strong knowledge in heat transfer, data processing, and data analytics.</p>
Research Location	On Site
How to Apply	Email directly (carlos.dasilva@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	January 31, 2026
Additional Comments	N/A



Professor Name	Chi-Guhn Lee*
Undergraduate Positions Available for Summer 2026	10
Department/Division	Mechanical & Industrial Engineering (MIE); Engineering Science (EngSci); Electrical & Computer Engineering (ECE); University of Toronto Institute for Aerospace Studies (UTIAS)
Name of Research Area/Lab	Machine Learning and Optimization
Description of Lab	More information can be found on this website: <ul style="list-style-type: none">• https://discover.research.utoronto.ca/6262-chigu-hn-lee
Research Location	Hybrid
How to Apply	Submit an email to kayehl.cai@utoronto.ca with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	March 31, 2026
Additional Comments	Minimum cGPA requirement: 3.2



Professor Name	Patrick Lee*
Undergraduate Positions Available for Summer 2026	4
Department/Division	Mechanical & Industrial Engineering (MIE)
Name of Research Area/Lab	Multifunctional Composites Manufacturing Lab
Description of Lab	More information can be found on our website: <ul style="list-style-type: none">• https://patricklee.mie.utoronto.ca
Research Location	On Site
How to Apply	Email directly (patrickc.lee@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	March 31, 2026
Additional Comments	N/A



Professor Name	Seungjae Lee*
Undergraduate Positions Available for Summer 2026	2
Department/Division	Civil & Mineral Engineering (CivMin); Mechanical & Industrial Engineering (MIE)
Name of Research Area/Lab	AI/ML solutions for buildings and energy systems
Description of Lab	<p>The Intelligent and Interactive Buildings Lab's research focuses on developing intelligent solutions for buildings and energy systems to mitigate climate change and improve quality of life. The team bridges building science, data science, thermal and energy engineering, and human-machine interaction. The team's research is particularly active in three key areas: (i) digital twinning and optimization of buildings and energy systems; (ii) human-building interactions; and (iii) GenAI-powered tools for building performance assessment.</p> <p>For more information: https://hab.civmin.utoronto.ca/people/dr-seungjae-lee/</p> <p>The summer research project topic and scope will be decided collaboratively, based on the student's interests and background.</p>
Research Location	Hybrid
How to Apply	Email directly (sjae.lee@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	February 22, 2026
Additional Comments	N/A



Professor Name	Kei Mansani*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Engineering Science (EngSci); Institute of Biomedical Engineering (BME)
Name of Research Area/Lab	Motion & Adaptation Science Laboratory
Description of Lab	More information can be found on our website: <ul style="list-style-type: none">• https://www.masl.ca/
Research Location	Hybrid
How to Apply	Email directly (k.masani@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	February 15, 2026
Additional Comments	N/A



Professor Name	Mohamad Moosavi*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Chemical Engineering & Applied Chemistry (ChemE)
Name of Research Area/Lab	Moosavi Team
Description of Lab	AI and Machine Learning in chemical sciences
Research Location	On Site
How to Apply	Email directly (mohamad.moosavi@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume
Deadline to Apply	March 15, 2026
Additional Comments	N/A



Professor Name	Alison Olechowski
Undergraduate Positions Available for Summer 2026	2
Department/Division	Mechanical & Industrial Engineering (MIE)
Name of Research Area/Lab	Ready Lab, engineering design and human-computer interaction
Description of Lab	More information can be found on our website: <ul style="list-style-type: none">• https://readylab.mie.utoronto.ca/
Research Location	On Site
How to Apply	Email directly (a.olechowski@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript• One-page description of how your interests and skills align with our lab's work
Deadline to Apply	February 6, 2026
Additional Comments	N/A



Professor Name	Nicolas Papernot*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Electrical & Computer Engineering (ECE)
Name of Research Area/Lab	CleverHans Lab - Trustworthy ML
Description of Lab	Lab Website: www.cleverhans.io I'm open to hosting a student interested in any of the research directions my lab works on (ML security, privacy, fairness, ethics).
Research Location	On Site
How to Apply	Email directly (nicolas.papernot@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Why papers from my group resonate with your own research interests• Resume• Unofficial Transcript
Deadline to Apply	January 31, 2026
Additional Comments	N/A



Professor Name	Georgia Pierrou*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Electrical & Computer Engineering (ECE)
Name of Research Area/Lab	Energy Systems
Description of Lab	<p>My research focuses on the stability analysis, control, and optimization of electric power systems, aiming to provide innovative solutions to support the energy transition. In particular, I use ideas such as stochastic dynamic modeling, stochastic optimization, and data-driven control towards shaping secure and sustainable electric power grids and e-mobility hubs.</p> <p>https://www.ele.utoronto.ca/~pierrou/</p>
Research Location	On Site
How to Apply	<p>Email directly (georgia.pierrou@utoronto.ca) with the following items, in a single PDF:</p> <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	February 5, 2026
Additional Comments	Minimum cGPA requirement: 3.5



Professor Name	Joyce Poon
Undergraduate Positions Available for Summer 2026	Up to 4
Department/Division	Engineering Science (EngSci); Electrical & Computer Engineering (ECE)
Name of Research Area/Lab	Micro/NanoPhotonics Lab
Description of Lab	<p>https://www.photon.utoronto.ca/home</p> <p>I am building an AI-driven laboratory to accelerate photonics and hardware development. In this project, you will work at the intersection of AI and experimental hardware R&D to develop workflows that make design and testing faster, more reproducible, and easier to transfer to new team members.</p> <p>A core principle is verification-first research: AI outputs are treated as hypotheses, and every workflow must include checkable evidence—sanity checks, unit/physics consistency, baselines, repeatability, and clear provenance (what code, settings, devices, and data produced a result). You will help chain diverse toolsets together, for example instrument control, automated data logging, analysis/visualization, and report generation, with robust metadata and versioning.</p> <p>A second goal is to reduce the barrier of entry to photonics/hardware work by building templates, guided procedures, and tooling that help new researchers go from “starting from scratch” to running reliable measurements. You may also help create knowledge graphs that capture specialized lab know-how (devices, setups, procedures, common failure modes, calibration steps) so it becomes searchable and reusable.</p> <p><i>Required:</i> strong fundamentals in electrical engineering and physics. Experience with Python, data analysis, and basic software practices.</p> <p><i>Helpful:</i> Interest in hands-on lab automation.</p>
Research Location	Hybrid
How to Apply	Email directly (joyce.poon@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	February 7, 2026
Additional Comments	N/A



Professor Name	Aryan Rezaei Rad*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Civil & Mineral Engineering (CivMin)
Name of Research Area/Lab	SuSustainable Structural Systems (SuStrucSy)
Description of Lab	More information can be found on our website: <ul style="list-style-type: none">• https://civmin.utoronto.ca/home/about-us/directory/professors/aryan-rezaei-rad/
Research Location	Hybrid
How to Apply	Email directly (aryan.rad@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	February 28, 2026
Additional Comments	N/A



Professor Name	Jonathan Rocheleau*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Institute of Biomedical Engineering (BME)
Name of Research Area/Lab	Diabetes, islet biology, microfluidic devices, live cell imaging, image analysis
Description of Lab	Lab website: https://quantm3.weebly.com/ . Please refer to our latest islet-on-a-chip papers: (1) https://pubmed.ncbi.nlm.nih.gov/41259206/ ; (2) https://pubmed.ncbi.nlm.nih.gov/40160725/ . Our short-term goals are to develop on-chip assays for other hormones (e.g., glucagon) as well as increase the pipeline of our analysis method (increase throughput and image analysis accuracy).
Research Location	On Site
How to Apply	Email directly (jon.rocheleau@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• A description of your interest in joining my lab• Resume• Unofficial Transcript
Deadline to Apply	March 1, 2026
Additional Comments	Applicants must be competitive for UROP/other awards.



Professor Name	Jonathan Rose
Undergraduate Positions Available for Summer 2026	3
Department/Division	Electrical & Computer Engineering (ECE)
Name of Research Area/Lab	Jonathan Rose's Research Lab
Description of Lab	Two Areas of Research: 1) Developing Chatbots for Mental Health Therapy using Large Language Models (LLMs) 2) Understanding How LLMs by exploring how they Represent and Use Concepts. See www.eecg.utoronto.ca/~jayar
Research Location	On Site
How to Apply	Apply via Submission Link: https://forms.office.com/r/MRSCrzVkC6 You will be required to submit the following items: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	February 6, 2026
Additional Comments	Minimum cGPA requirement: 80%



Professor Name	Ervin Sejdic*
Undergraduate Positions Available for Summer 2026	1-3
Department/Division	Electrical & Computer Engineering (ECE)
Name of Research Area/Lab	iMED lab
Description of Lab	<p>The iMED (Innovative Medical Engineering Developments) lab was founded in 2011 through the generous support of the Swanson School of Engineering and the University of Pittsburgh. The vision of this lab is to become an international leader in dynamical biomarkers indicative of age- and disease-related changes and their contributions to functional decline under normal and pathological conditions. In particular, the mission of the lab is to develop clinically relevant solutions by fostering innovation in computational approaches and instrumentation that can be translated to bedside care.</p> <p>Given the vision and mission behind the lab, our motto is: "Output and outcome." These two simple words fully describe the essence of the lab. "Output" describes the first goal of the iMED lab: to conduct rigorous scientific investigations whose results will be published in respected high impact journals. In order to achieve this goal, we strive to conduct cutting-edge research projects which produce results with an immediate impact. "Outcome" describes the second goal of the iMED lab: to conduct research projects that matter to patients and the public. In other words, our research must make a difference in people's lives. The research conducted in the iMED lab must lead to important and real-life relevant advances in biomedical computational approaches and instrumentation.</p> <p>The iMED lab serves as a unique, clinically oriented training ground for undergraduate students, graduate students and post-doctoral fellows interested in computational tools and instrumentation. We work very closely alongside numerous health and allied health professionals and scientists, including physicians, occupational therapists, physical therapists, speech language pathologists, throughout all stages of research, from problem formulation to grant application, from data collection to journal publication.</p>
Research Location	Hybrid
How to Apply	Email directly (ervin.sejdic@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	February 28, 2026
Additional Comments	Minimum cGPA requirement: 3.8



Professor Name	Shoshanna Saxe*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Civil & Mineral Engineering (CivMin)
Name of Research Area/Lab	Sustainable Infrastructure and Construction
Description of Lab	https://csbe.civmin.utoronto.ca We are looking to hire one summer student for research on sustainable construction. A key part of the position would be updating our construction materials GHG intensity database to better understand the environmental emissions associated with the production of construction materials.
Research Location	Hybrid
How to Apply	Email directly (s.saxe@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Brief explanation of research interests, goals and why you are interested in this position• Unofficial Transcript
Deadline to Apply	March 20, 2026
Additional Comments	Minimum cGPA requirement: 3.5



Professor Name	Shamim Sheikh
Undergraduate Positions Available for Summer 2026	2
Department/Division	Civil & Mineral Engineering (CivMin)
Name of Research Area/Lab	Structures
Description of Lab	Experimental and analytical investigation of concrete structural elements reinforced with Fibre Reinforced Polymers (FRP). This will include literature search, testing of large scale specimens, analysis of test data and evaluation of response with respect to existing information.
Research Location	On Site
How to Apply	Email directly (shamim.sheikh@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	January 30, 2026
Additional Comments	Prefers a minimum cGPA of 3.7



Professor Name	Jay Werber*
Undergraduate Positions Available for Summer 2026	3
Department/Division	Chemical Engineering & Applied Chemistry (ChemE)
Name of Research Area/Lab	Advanced Membranes Lab
Description of Lab	UGs would assist grad students in one of the following areas: (1) reverse osmosis desalination, (2) electrochemical ion separations, (3) purification of bio-derived chemicals, and (4) automation of membrane separation processes. https://www.labs.chem-eng.utoronto.ca/werber/
Research Location	On Site
How to Apply	Email directly (jay.werber@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	February 9, 2026
Additional Comments	N/A



Professor Name	Minghan Xu*
Undergraduate Positions Available for Summer 2026	4
Department/Division	Civil & Mineral Engineering (CivMin)
Name of Research Area/Lab	Renewable energy integration for civil and mining applications
Description of Lab	<p>We study heat, fluids, and energy to develop clean technologies for net-zero mining and beyond. Available projects include: (1) renewable energy (e.g., wind, solar, geothermal and nuclear) integration in northern mines, (2) AI-based optimization for the sustainable development/utilization of renewable energy technologies, (3) mathematical modelling of phase change materials for energy storage, and (4) spray freezing for renewable mine heating, cooling and wastewater decontamination.</p> <p>Lab Website: https://mineenergy.civmin.utoronto.ca</p>
Research Location	Hybrid
How to Apply	<p>Email directly (minghan.xu@utoronto.ca) with the following items, in a single PDF:</p> <ul style="list-style-type: none">• Resume• Unofficial Transcript <p>Email with the subject line: “Join METAL – [Your Full Name]”.</p>
Deadline to Apply	March 31, 2026
Additional Comments	N/A



Professor Name	Ning Yan*
Undergraduate Positions Available for Summer 2026	1
Department/Division	Chemical Engineering & Applied Chemistry (ChemE)
Name of Research Area/Lab	Sustainable circular materials
Description of Lab	More information can be found on our website: <ul style="list-style-type: none">• https://ningyanlab.com/
Research Location	On Site
How to Apply	Email directly (ning.yan@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	February 28, 2026
Additional Comments	Minimum cGPA requirement: 3.7



Professor Name	Jianan Yao*
Undergraduate Positions Available for Summer 2026	2
Department/Division	Electrical & Computer Engineering (ECE)
Name of Research Area/Lab	Formal verification, automated reasoning, software security
Description of Lab	The research is about automatically generating mathematical proofs with large language models in Lean. Lean is a proof assistant and programming language for both math reasoning and code verification. We will study the problem of given a theorem statement in Lean, generate its proof which is a sequence of tactics with arguments, with the power of large language models. Learn more about Professor Yao's prior research at: https://www.eecg.utoronto.ca/~jianan/
Research Location	Hybrid
How to Apply	Email directly (jianan.yao@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	March 15, 2026
Additional Comments	N/A



Professor Name	Sunmoon Yu*
Undergraduate Positions Available for Summer 2026	2
Department/Division	Materials Science & Engineering (MSE)
Name of Research Area/Lab	ECLIPSE Lab
Description of Lab	<p>Our group focuses on developing electroactive materials and electrochemical processes for CO₂ capture and conversion, as well as small molecule upgrading into value-added chemicals and fuels. The ultimate goal of our research is to decarbonize materials and chemical manufacturing through electrochemistry, enabling a more sustainable future.</p> <p>Please visit our group website for more information: https://eclipse.mse.utoronto.ca.</p>
Research Location	Hybrid
How to Apply	Email directly (sunmoon.yu@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Resume• Unofficial Transcript
Deadline to Apply	April 15, 2026
Additional Comments	Minimum cGPA requirement: 3.3



Professor Name	Mohammad Zargartalebi*
Undergraduate Positions Available for Summer 2026	2
Department/Division	Mechanical & Industrial Engineering (MIE)
Name of Research Area/Lab	SintonLab
Description of Lab	<p>The Thermal Fluid Discovery project is dedicated to advancing the discovery and development of next-generation thermal fluids through machine learning (ML)-aided experimentation. This research aims to build a fully autonomous experimental platform to accelerate the optimization of thermal fluids, with a particular emphasis on high-performance cooling fluids for electric vehicles (EVs).</p> <p>We are seeking highly motivated and detail-oriented Research Assistants to join this multidisciplinary team. The successful candidate will collaborate with experts in materials science, mechatronics, and machine learning, contributing to experimental execution, data management, and the development of ML-driven methodologies for thermal fluid discovery and optimization.</p>
Research Location	On Site
How to Apply	Email directly (m.zargartalebi@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	March 16, 2026
Additional Comments	Minimum cGPA requirement: 3.5



Professor Name	Yu Zou*
Undergraduate Positions Available for Summer 2026	2-3
Department/Division	Materials Science & Engineering (MSE)
Name of Research Area/Lab	Materials, 3D printing, AI, Mechanics and design
Description of Lab	<p>Our group uses novel experimental, analytical, and computational tools to explore materials with extreme properties or under extreme conditions, particularly for metallic materials. Our research themes can be summarized as 4Ms - metals, mechanics, manufacturing, and machine learning, covering many length and time scales. Of particular interest is to advance the fields of vital importance to the society, including aerospace, biomedical, electronic, environment, and energy sectors.</p> <p>Materials: high-entropy alloys, nanocrystalline alloys, quasicrystals, titanium, aluminum and steels, semiconductors, solid-state batteries and magnetic materials</p> <p>Mechanics: nanoindentation, in-situ instrumentation, high strain-rate/temperature deformation, fracture and failure analysis.</p> <p>Manufacturing: additive manufacturing (3D printing), cold spray technology, mechanical alloying, arc melting, and magnetron co-sputtering.</p> <p>Machine Learning: machine learning for alloy design, computer vision for advanced manufacturing</p>
Research Location	On Site
How to Apply	Email directly (mse.zou@utoronto.ca) with the following items, in a single PDF: <ul style="list-style-type: none">• Cover Letter• Resume• Unofficial Transcript
Deadline to Apply	April 1, 2026
Additional Comments	Minimum cGPA requirement: 3.0