ENGINEERING OUTREACH

Annual Report

2025

OntarioTech
Engineering
& Applied Science

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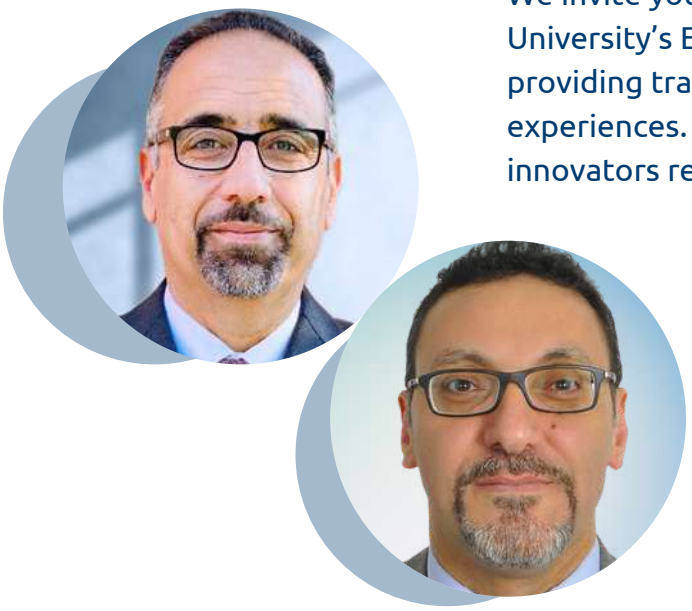
Welcome

The Faculty of Engineering and Applied Science at Ontario Tech University is proud to continue delivering innovative, inclusive, and impactful Science, Technology, Engineering, and Math (STEM) learning opportunities through its Engineering Outreach programs. Our mission remains to inspire the problem-solvers of tomorrow by fostering curiosity and empowering youth to see themselves as agents of change through STEM.

Since 2014, Engineering Outreach has engaged more than 201,000 youth across Canada. In 2025 alone, we reached 46,800 youth and supported over 750 educators through dynamic, hands-on experiences both in classrooms and communities. Building on the success of previous years, our team continued to expand programming in Artificial Intelligence (AI) and digital literacy, reaching thousands of students with innovative, ethical, and future-focused learning opportunities. These included new initiatives such as Code and Capture with AI, DataXplorers, and AI in Manufacturing, designed to develop problem-solving, critical thinking, and leadership skills among participants.

This year, we strengthened opportunities for deeper engagement through mentorship-based and multi-session programs that help youth build confidence and sustain their interest in STEM. Our participants gained real-world insight by visiting cutting-edge facilities at the university and by connecting with professionals from diverse STEM fields. These experiences help youth envision their place in STEM and understand how engineering can drive positive change in the world.



We invite you to explore this report to learn how Ontario Tech University's Engineering Outreach team continues to lead in providing transformative, inclusive, and future-ready STEM experiences. Together, we are shaping a generation of innovators ready to design a better world.

Hossam Kishawy, PhD, PEng
Dean, Faculty of Engineering & Applied Science

Qusay H. Mahmoud, PhD, PEng
Assistant Dean, Engineering Outreach

Core Values

Inclusivity

We foster a welcoming environment where diverse perspectives and experiences are celebrated, ensuring everyone feels valued and respected.

Innovation

We embrace creativity, cutting-edge technologies, and forward-thinking approaches to develop transformative outreach programs.

Collaboration

We partner with stakeholders, community organizations, school boards, and volunteers to drive meaningful and lasting change.

Accessibility

We are committed to breaking down barriers so all youth, regardless of background or circumstances, can explore and excel in engineering and technology education.

Excellence

We deliver impactful, high-quality programs that exceed expectations and address the evolving needs of our communities.

Our Team

Laura Thursby

Manager

Alex Piliounis

Elementary and Teacher Coordinator

Hunter Johnson

Indigenous Youth Coordinator

Paula Duru

Black Youth Coordinator

Sarah Wedge

Girls Programs & WiE Coordinator

Zahraa Bassyouni

High School Coordinator

Allison Prinzen

Administrative Assistant

At the heart of Engineering Outreach is a team driven by passion, skill, and a shared commitment to empowering future innovators. We extend our sincere gratitude to our instructors and coordinators for their dedication to inspiring youth, supporting educators, and fostering inclusive, hands-on STEM learning experiences.

Our team combines strong technical expertise with a deep understanding of inclusive and culturally responsive teaching. We invest in recruiting, training, and mentoring exceptional staff who reflect the diversity of the communities we serve. Many of our instructors are Ontario Tech students or alumni, and some are former participants who now lead programs themselves, thereby creating a powerful cycle of mentorship and representation.

Making a Difference

At Engineering Outreach, our impact is measured by the lives we touch and the connections we build. Through hands-on workshops, community partnerships, and meaningful interactions, we strive to spark curiosity, build confidence, and create pathways to success in STEM.

> ***"I want to be an engineer now if this is what it's like."***
>
> *Mobile Design Lab*
> *Grade 1 Participant*

This is my fourth workshop with Engineering Outreach, and I feel more confident every time! I really like how the sessions let my students try coding in a creative way. Students that normally wouldn't want to try coding were engaged and having fun."

Mobile Design Lab
Elementary Educator

The program was engaging, interesting, and filled with hands-on learning and fun. It struck a great balance between education and enjoyment, and it was evident that a lot of thought went into its planning and execution. The volunteers made every child feel welcomed and engaged."

STEMpreneur Pitching Competition Parent

46,800+

youth interactions

1,200

programs delivered, including workshops, clubs and camps

25

mentors and volunteers worked with Engineering Outreach

750+

educators served

58

high school and undergraduate students employed by Engineering Outreach

92%

of youth served reported learning new STEM concepts

Year in Themes

Designing, Building, and Problem Solving

At the core of every program is the Engineering Design Process, which involves defining problems, brainstorming ideas, building prototypes, and testing solutions. Through challenges that span civil, mechanical, electrical, software, mechatronics, automotive, nuclear, chemical engineering, and more, students learned to think systematically about how things are built and how they can be improved.

CyberSmart: Digital Literacy and AI Awareness

Our CyberSmart initiatives helped youth navigate the digital world with confidence, creativity, and care. Through engaging activities in digital literacy, online safety, and cybersecurity, participants learned how to protect their privacy, think critically about information, and use technology responsibly.

Energy, Environment, and Sustainability

Through hands-on investigations, students explored how engineering can create a more sustainable world. Programs in renewable energy, water purification, eco-city design, and digital agriculture encouraged youth to think critically about how we produce energy, grow food, and manage resources responsibly.

Health, Humanity, and Innovation

Using mechatronics and mechanical engineering concepts with a health sciences lens, students discovered how STEM improves daily life. Projects included prosthetic design, material testing, and chemical reaction demonstrations that connected abstract concepts to real-world health and safety applications. By combining empathy with design thinking, students learned that engineering is not only about machines, it's about making life better for people and communities.

Technology in Motion

Our robotics, aerospace, and mechanical engineering workshops brought motion and mechanics to life. Participants built VEX robots, tested flight stability in model aircraft, and designed vehicles for efficiency and control. Through these hands-on challenges, they explored physics in action (forces, motion, and control systems), transforming abstract principles into tangible outcomes.

Circuits, Code, and Creativity

Electrical engineering and computing continued to capture imaginations through interactive activities that blended logic and play. Students built and tested circuits, programmed robots, and experimented with AI-driven image and motion recognition.

Teacher Programs

Engineering Outreach remains a trusted partner to educators across the Durham Region and beyond, providing flexible, curriculum-connected professional learning opportunities that empower teachers to bring STEM to life in their classrooms. Through both in-person and online formats, our programs help teachers build confidence with emerging technologies, develop creative teaching strategies, and integrate engineering and design thinking into everyday lessons.

Resource Hub and Asynchronous Learning

To further extend access, Engineering Outreach continues to expand its online Resource Hub, an open-access library of curriculum-aligned lesson plans, recorded workshops, and project ideas. Teachers can browse, download, and contribute their own resources. This year also saw the addition of asynchronous courses hosted on Ontario Tech's Canvas Catalog, providing self-paced training in tools such as Micro:Bit, Ozobot, and AI for Teachers, ensuring flexible, ongoing professional learning opportunities.

Scan to visit our Teacher Programs website

Engineering Outreach Specialist Program

Our Engineering Outreach Specialist (EOS) Program continues to provide long-term, in-school support to teachers through co-planned and co-delivered STEM lessons. In 2025, the program expanded from one to three Durham Catholic District School Board (DCDSB) partner schools, with plans underway to extend to Durham District School Board (DDSB) schools. EOS partnerships empower educators to integrate coding and engineering design into their regular instruction, while freely sharing all created resources across their boards to extend impact and accessibility.

750+
educators reached

8
EOS Program teacher visits

Mobile Design Lab

The Mobile Design Lab (MDL) remains one of our most in-demand programs that support teachers, with bookings nearly every day for both elementary and high schools. Beyond delivering engaging classroom experiences in coding, robotics, and 3D design, the MDL also serves as a professional learning space for teachers. Educators gain hands-on experience with the same technologies used by their students, helping them feel prepared to extend lessons and incorporate digital tools into their teaching. This year, new AI and advanced manufacturing modules were introduced, ensuring that the MDL continues to evolve in response to classroom needs.

NEW! Spot on Stage

In an effort to highlight real-world applications of STEM in an engaging and accessible way, we introduced Spot on Stage, a 30-minute presentation featuring the Boston Dynamics Spot robot. The session demonstrates how ethical and responsible engineering enables technologies like Spot, while illustrating how an engineering degree can lead to careers working on innovative, real-world solutions.

12,400+

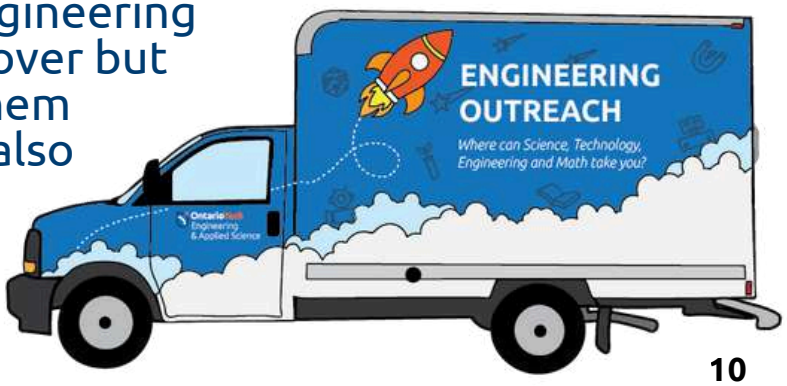
Mobile Design Lab youth reached

171

Mobile Design Lab days in classrooms

“My students had a ton of fun. Engineering Outreach took topics I need to cover but didn’t know how to, and made them engaging for my students while also clearly connected to my learning goals.”

Elementary Educator



Elementary Programs

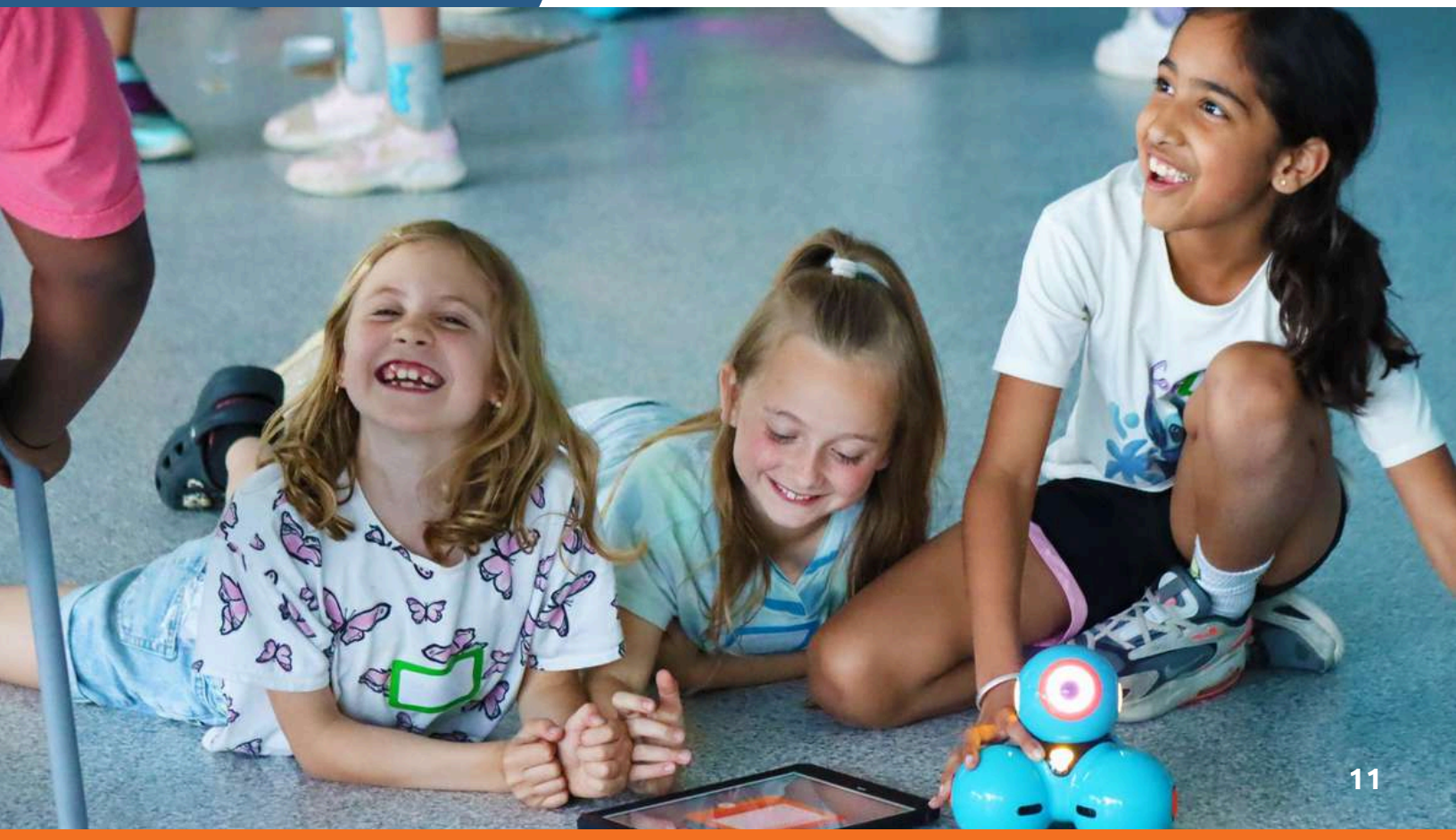
Our goal is to make STEM learning fun, accessible, and hands-on for students from Kindergarten to Grade 8. Our programs spark curiosity, encourage problem-solving, and introduce young learners to the exciting world of STEM through creative, interactive experiences.

19,000+

youth served through elementary programs

NEW! STEM Academies

Our week-long STEM Academies immerse grades 5 to 8 students in hands-on STEM exploration experience. Participants engage in robotics with Dash & Dot and mBot, 3D printing, chemistry experiments, rocket and bridge building, AI and virtual reality (VR), electric-powered inventions, and more, cultivating problem-solving, creative thinking, and confidence through project-based learning.



Library STEM and Coding Workshops

Partnerships with community libraries continue to bring hands-on STEM learning directly into the heart of local communities. Engineering Outreach delivers weekly or biweekly STEM and coding workshops for grades 1 to 8 across all partner libraries. These programs introduce students to diverse STEM topics while nurturing their curiosity, creativity, and confidence, encouraging future exploration of STEM careers and academic pathways.

Engineering Outreach has also introduced dedicated programming for Black youth, partnering with Ajax Library as an inclusive community hub that celebrates representation and fosters a sense of belonging.

Our partner libraries include:

Ajax Library

Clarington Public Library
Experience Community

OSHAWA PUBLIC LIBRARIES

Pickering Public LIBRARY

Whitby Public Library

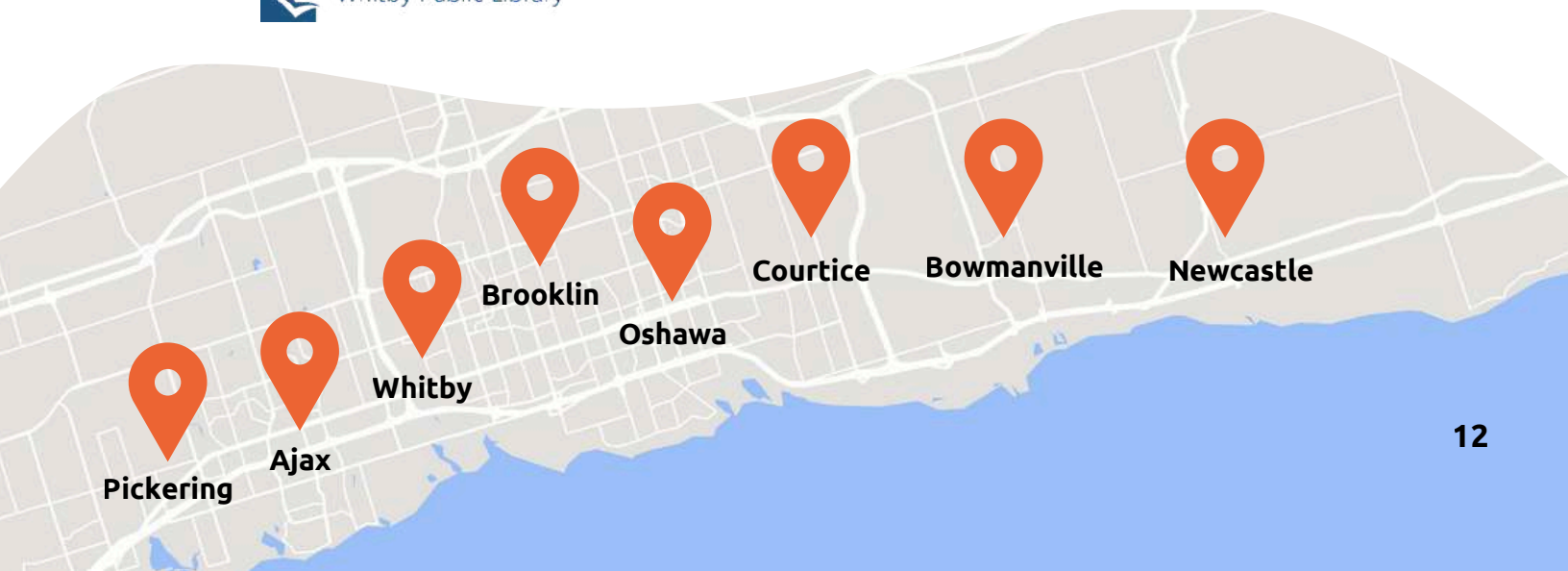
1,400+

youth served through library programs

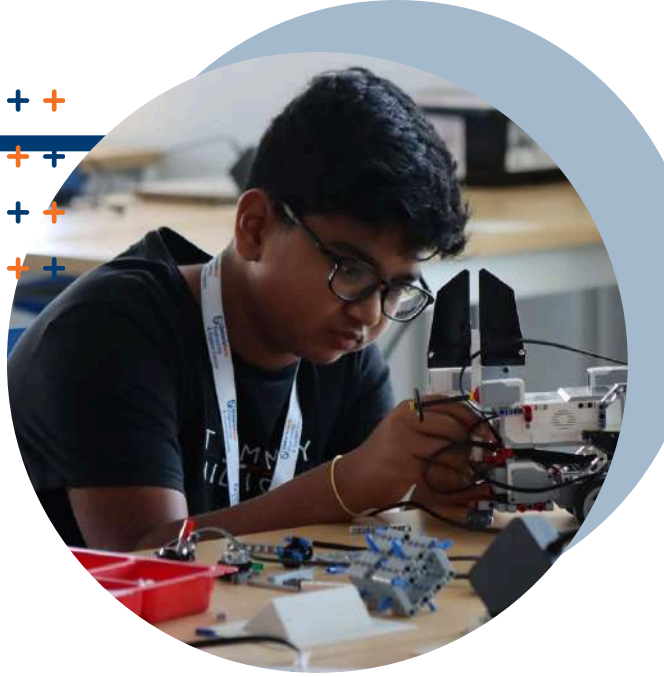
Lending Library

The Lending Library continues to provide schools and community organizations with access to hands-on STEM tools, supporting both classroom and at-home learning. With over 150 users in 2025, students and educators explored technologies such as:

- Arduino
- Kano Computer
- Makey Makey
- Micro:bits
- Botley



High School Programs



Our High School Programs continue to play a crucial role in supporting students from grades 9 to 12, providing meaningful opportunities to explore STEM, build digital literacy, and prepare for post-secondary education and future careers. These programs emphasize accessibility, offering both free and low-cost options, and are delivered through flexible models designed to meet students where they are, whether in schools, on campus, or virtually.

NEW! Evening Workshop Series

Building on the success of the MDL program, Engineering Outreach piloted a new multi-session evening workshop series to extend access to youth outside of regular school hours. These workshops, offered both virtually and in-person, provided flexible learning opportunities for students with varied schedules and transportation needs. Programs included Code and Capture with AI, Engineering 3D Design and Modelling, CyberSmart, DataExplorers, AI in Manufacturing, and 3D Print Ready: Design Skills for Additive Manufacturing. Students gained hands-on experience training AI models, programming in Python, building data dashboards, exploring cybersecurity, and designing for additive manufacturing.

Future Leaders in Training

Future Leaders in Training (FLIT) provides Black high school students with mentorship, leadership development, and STEM exploration to prepare them for post-secondary education and future careers.

Game Development with Unity

Our Game Development with Unity program provided a structured twelve-session learning experience over six weeks. Participants were introduced to one of the most widely used professional game engines, learning the fundamentals of game mechanics, physics, player movement, user interface, and scripting. Students gained a real understanding of how games function behind the scenes and many were able to create their own small prototype games by the end of the program.

> The program was really fun and interactive. The two teachers were amazing and during each break took the time to answer our questions about how to succeed in high school and uni/college."
>
> **Code and Capture with AI participant**

NEW! STEMpreneur: AI-Powered Business Challenge

The STEMpreneur: AI-Powered Business Challenge brought together 57 students for an immersive two-day competition focused on connecting entrepreneurship and artificial intelligence. Students attended preparatory workshops on pitching and AI tools before forming teams to design, build, and pitch their AI-powered business ideas. The challenge emphasized creativity, teamwork, and presentation skills, and featured mentorship from Brilliant Catalyst and Enactus volunteers.

NEW! Inside Engineering

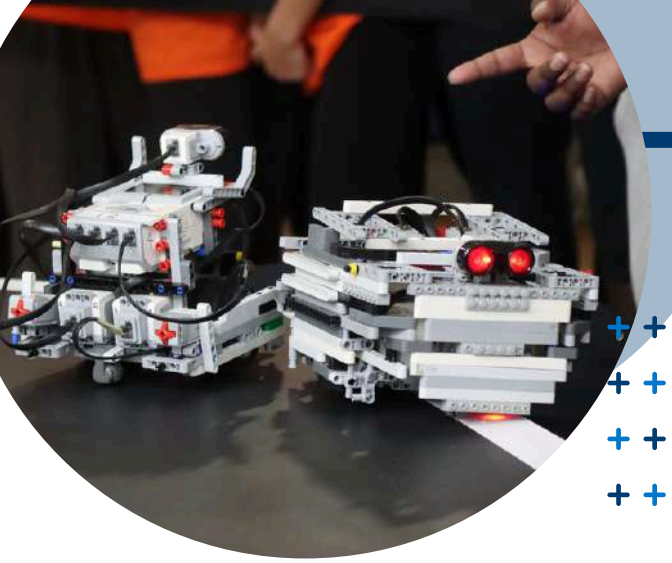
New in 2025, Inside Engineering offered high school students an immersive, hybrid week of exploration into the diverse world of engineering, with sessions delivered in October and November to increase accessibility. Designed for grades 9 to 12, the program combined in-person and virtual workshops, highlighting a different engineering discipline each day—Electrical, Mechanical, Mechatronics, Software, and Nuclear/Materials/Aerospace Engineering—through hands-on activities and live Q&A sessions with industry experts and Ontario Tech engineering students. Students could register for individual sessions or participate in the full week for a comprehensive overview of engineering pathways. Affordably priced, Inside Engineering provided youth with a unique opportunity to explore multiple disciplines, engage with real-world applications, and connect directly with mentors and professionals, helping them envision their own path toward STEM education and future careers.

5,900+

high school students were served through our programs this year

215

students participated in Inside Engineering, it's innaugral year



500+

students from grades 7 to 12

74

teams from 28 schools

Annual Engineering Robotics Competition

In addition to new programs, flagship high school events continued to thrive. The 18th Annual Engineering Robotics Competition brought together over 500 youth from across the Greater Toronto Area, where 74 teams from 28 schools applied engineering and coding concepts in a two-month design challenge culminating in a live Sumobot competition. The event promoted innovation, collaboration, and perseverance in a fun, competitive environment.

In this competition, each team designed an autonomous SumoBot with one mission: to outlast and eliminate the competition in intense head-to-head matches. Eight SumoBots entered the ring simultaneously. The challenge? Be the last robot standing as the arena shrinks! Every team also presented a poster showcasing their robot's design and highlighting their team's soft skills, giving a behind-the-scenes look at the journey to becoming champions.

Thriving in the Age of Artificial Intelligence

As part of our commitment to expand STEM opportunity and readiness for younger learners, we updated and relaunched the course “Thriving in the Age of AI”, a K to 12-targeted curricular initiative designed to introduce high school students to foundational concepts in artificial intelligence. Detailed in our recent conference paper, Thriving in the Age of AI: A Model Curriculum for Developing Competencies in Artificial Intelligence for K–12, the program contains six core modules aligned with the Ontario provincial curriculum and is delivered via a mix of online platforms, workshops, and in-class integration, aiming especially to reach youth and educators with limited prior exposure to AI. Preliminary evaluation shows promising results: students who completed the course demonstrate improved comprehension of key AI concepts, while educators report increased confidence and competence in integrating AI topics into their teaching. This initiative demonstrates how outreach efforts, when thoughtfully designed, can play a meaningful role in building AI literacy early on and bridging the gap between secondary education and emerging technologies.

Check out the course

Thriving in the Age of AI is freely available on our course catalog. With the rise of Generative AI, this updated version (2025) now reflects the latest advancements in AI and Generative AI.

Check out the paper

Paper presented at, and published in the proceedings of, the 2025 Canadian Engineering Education Association Conference, June 17 – 2021, 2025, Montreal, Quebec

Programs with Equity, Diversity and Inclusion in mind.

We are committed to creating inclusive, accessible, and empowering STEM opportunities for youth from communities traditionally underrepresented in STEM. Our programs actively engage Black youth, Indigenous youth, girls, 2SLGBTQIA+-identifying youth, and students with disabilities, providing experiences designed to remove barriers and support full participation. Through hands-on activities, accessible materials, and adaptable program structures, we ensure that every learner can confidently explore, create, and innovate. By fostering these inclusive learning environments, we aim to inspire the next generation of diverse STEM leaders and innovators, giving everyone the opportunity to thrive and succeed.

Intersectional Programming

It is important to embed intersectionality into every stage of program design, delivery, and staff training. Recognizing that youth hold multiple, interconnected identities, our programs intentionally reflect diverse lived experiences and foster a strong sense of belonging in STEM. Through intersectional design, participants not only gain technical skills but also explore how identity, representation, and community help support their relationship with STEM learning.

NEW! Black Girls in STEM Program

Biweekly summer sessions designed to spark curiosity, develop problem-solving skills, and provide mentorship through hands-on STEM projects. Representation from Black and female-identifying communities remains severely lacking in STEM education and related industries.

NextGen Leaders Network

NextGen Leaders Network (NLN) is a seven week internship program that provides Black and/or female-identifying youth an immersive opportunity to develop their leadership skills, while being shadowed under our specific black youth, and all girls team. In 2025, the program welcomed 20 participants.

InSTEM Indigenous Youth Programs

In 2025, we continued to expand the reach and impact of the InSTEM program, engaging Indigenous youth across Canada through both virtual and in-person programming. The team partnered with organizations including DDSB Indigenous Education, Connected North, and Dnaagdawenmag Binnoojiiyag Child & Family Services (DBCFS) to deliver workshops in communities such as Nunavut, Rama First Nation, Sutton, Peterborough, and Oshawa. By integrating Indigenous perspectives with Western STEM concepts, InSTEM provided culturally grounded learning that highlighted the value of traditional knowledge alongside hands-on STEM skills.

NEW! Roots and Rising Indigenous Youth Internship

2025 saw the launch of the Roots & Rising Indigenous Youth Internship, an eight-week pilot program preparing high school students to design and deliver land-based STEM programming. Two interns participated as both learners and co-developers, gaining leadership, teamwork, and program design experience, which culminated in a student-led land-based learning day for Curve Lake First Nation youth. This program also explored leadership, team building, and community action projects through a curriculum aligned with Ontario's Leadership and Peer Support credit, setting the stage for future accredited programming.

“I liked learning about Indigenous knowledge and coding. The instructors are amazing and did an amazing job!”

InSTEM Club Participant

3,113

Indigenous youth participated in programs

30

InSTEM programs were run

Traditional Knowledge and STEM Conference

At this conference, high school students engaged with Indigenous undergraduate students, STEM professionals, and keynote speakers to explore how traditional knowledge intersects with STEM disciplines. Speakers included Terra Roy, a multidisciplinary artist specializing in Traditional Knowledge; Siera Hancharyk, a community worker and activist; Zachary Dixon, a mechanical engineer; and Alacea Yerxa, a biomedical sciences professional, each of whom shared perspectives on how Indigenous knowledge and lived experience inform their work in STEM-related fields.

NEW! Indigenous Health and Wellness Workshops

Health and wellness concepts were integrated into elementary-level clubs, and Connected North workshops highlighted holistic approaches grounded in Indigenous perspectives, connecting STEM with land, community, and wellbeing. Programming explored the science behind movement and traditional dancing, food sciences through traditional foods, and the medicine of relationships, emphasizing the impact that connection and community have on overall health.

Black Youth Programs

Our Black Youth Programs empower students in grades 1 to 12 to explore STEM, coding, and engineering design through hands-on learning, mentorship, and culturally relevant programming. Using a hybrid model of in-person and virtual sessions, the program connects youth to meaningful experiences that build digital skills, problem-solving abilities, and confidence while highlighting Black excellence in STEM.

Black Legacy in STEM Conference

This conference offered high school students immersive workshops, personal and technical development sessions, post-secondary guidance, roundtable discussions with Black undergraduates and alumni, and hands-on STEM challenges. Participants also heard from featured speakers Abigail Ralph, a neuroscience researcher, and Rohan Service, an engineer and supervisor, who shared insights into their academic and professional journeys.

NEW! Young Black Men Empowerment STEM Program

Integrated into our broader elementary club programming, this monthly hands-on series develops digital skills, confidence, and teamwork while connecting youth to Black undergraduate mentors. Activities include coding, AI exploration, STEM challenges, and career guidance.

4,200+

black youth served through our programs

73

black youth programs were run

Virtual Black Youth Digital Safety Workshops

This program was delivered as a three-part series for students in grades 1 to 12, offering practical strategies for safe online behaviour and responsible digital citizenship. Through engaging discussions and hands-on activities, participants built the skills and confidence needed to navigate the digital world safely, empowering young learners with the knowledge and tools to enjoy positive and secure online experiences.

NEW! Black Innovators Week

A four-day STEM camp connecting students to innovation, creativity, and heritage through collaborative design challenges and exploratory projects.

> “I think the instructors are really inspiring and helpful and kind. I’m looking forward to seeing more people like them in this space.”

Innovators Week Participant

Girls Programs

The all-girls programs provide hands-on STEM experiences designed for girls and young women, including non-binary, two-spirit, trans, and genderqueer youth. Through clubs, camps, workshops, and conferences, participants explore engineering and technology in supportive, inclusive environments led by female mentors and role models. These programs aim to build technical skills, confidence, and community, empowering participants to envision themselves as the next generation of innovators in STEM.

InspirEng and FuturEng Conferences

Our InspirEng Conference, delivered in partnership with the DDSB, introduced over 200 high school students to electrical and software engineering by modeling traffic lights with Arduino and C++, experimenting with VR games, and exploring university programs and clubs.

FutureEng, tailored for students in Grades 11 and 12, engaged 135 participants and focused on postsecondary preparation through electrical and mechanical engineering workshops, guest speakers, and sessions covering university applications, scholarships, and student life.

Go ENG Girl and Go CODE Girl

Hosted in collaboration with ONWiE, these daylong events introduced grades 7 to 10 participants to engineering and coding through hands-on workshops and inspiring talks by female engineers and engineering students. Together, the two events welcomed more than 280 girls and their parents.

2,360+

girls served through our programs in 2025

73

All-Girls programs were run

STEM Days

Nine full-day events introduced participants to civil, electrical, mechanical, software, and chemical engineering through hands-on challenges that encouraged problem-solving and exploration.

Summer Camps

Our free week-long girls camps offered focused, project-based STEM learning. The Connected Engineering camp for grades 9 to 12 used a Formula 1 theme to explore multiple engineering fields, with campers programming Arduino start lights and tire sensors and designing custom car parts in CAD. They also met the Ontario Tech Racing Team, who shared their experiences in motorsports design. The Engineering Our Society camp for grades 7 to 9 centered on game development, where participants used Makey Makey kits, Scratch, and Python to build a “gaming café” and explore responsible AI. Both camps also welcomed guests from the Durham Chapter of Women in Nuclear Canada to discuss engineering careers and nuclear applications.

Accessible Programs

Engineering Outreach is deeply committed to ensuring that youth of all abilities can meaningfully participate in and enjoy STEM learning. Accessibility is not treated as an add-on in our programs; it is embedded across all camps, workshops, and community events through intentional design, staff training, and strong community partnerships.

Partnerships for Inclusive Programming

In 2025, Engineering Outreach expanded its partnerships supporting youth with disabilities and medical challenges. With Grandview Kids, we delivered four hands-on digital skills workshops, introducing kindergarten students to multiple technologies while promoting creativity and problem-solving. Our team completed accessibility training, created multi-format materials, and toured classrooms to ensure our programs were fully accessible.

We also launched a new partnership with Hearth Place Cancer Support Centre, offering a full day of STEM activities for up to 40 youth affected by cancer. Programming was adapted to participants' needs and energy levels, building digital literacy, engineering, and coding skills while fostering confidence and excitement for STEM in a supportive setting.

Multilingual Learner Support

Engineering Outreach develops and delivers workshops designed to support youth whose first language is not English with the DDSB. By integrating visual learning aids, simplified technical vocabulary, and bilingual resources where possible, the Multilingual Learner program makes STEM learning approachable and enjoyable for all learners.

Bridging the Digital and Generational Divide

Intergenerational Learning and Digital Literacy for Seniors

In 2025, Engineering Outreach expanded its programming beyond K to 12 to support lifelong STEM learning, launching digital literacy initiatives for seniors to help close the generational digital divide. These programs paired youth mentors, including undergraduate and high school students, with older adults, fostering intergenerational connections while teaching essential digital skills. Seniors gained confidence using digital devices, recognizing online scams, and exploring emerging technologies such as AI and VR, while young mentors strengthened their leadership, communication, and problem-solving skills in real-world, community-based settings.

Engaging Parents as Partners in STEM Learning

Parent engagement continues to play a central role across Engineering Outreach programs, ensuring that families are active partners in their children's STEM journeys. Through showcases, resource sharing, and community events, parents and guardians are invited to witness, celebrate, and support the growth of their children's curiosity, creativity, and confidence.

245

parents attended summer camp showcases

Comunicating our Message

Throughout 2025, Engineering Outreach continued to strengthen its communication strategy through a multi-platform approach that prioritized clarity, engagement, and accessibility. Social media continued to be a vital tool for promoting upcoming programs, sharing participant stories, and highlighting community partnerships. Our focus this year was on creating meaningful, high-quality content that not only informs but also inspires, encouraging families, educators, and community members to stay connected and engaged with our initiatives.

167,000+

impressions across all platforms, a 141% increase in 2025

3.4k

followers across all platforms

3,200+

mailing list subscribers

14.5%

growth in link clicks in 2025

Connect with us!

SEND US AN EMAIL
engineeringoutreach@ontariotechu.ca

VISIT US ONLINE
engineering.ontariotechu.ca/outreach

JOIN OUR MAILING LIST
Scan the QR Code

FOLLOW US ON SOCIAL MEDIA
@ot_outreach

VOLUNTEER WITH US
Scan the QR Code

Our Partners

Our partners remain the cornerstone of our success and the driving force behind our most impactful initiatives. With the unwavering support of both local collaborators and national organizations, we have been able to bring hands-on STEM programming to thousands of youth across diverse communities. Each partnership allows us to expand access, deepen impact, and create pathways for young learners to see themselves in STEM.

Since 2018, Actua has been a vital collaborator, providing training, resources, and steadfast support to Engineering Outreach in delivering high-impact STEM education.

A network member of actua

Actua is a leading Canadian science, technology, engineering and mathematics (STEM) youth outreach organization. Each year, the Actua network engages over 500,000 youth in 600 communities across Canada in transformative STEM learning experiences that build critical skills and confidence. Please visit www.actua.ca.

2025-26 Actua National Funders

Canada

Suncor Energy Foundation · Suncor · TD Ready Commitment · Toyota · Enbridge · CIBC Foundation · Scotiabank · cenovus energy · Imperial · Microsoft

We sincerely thank Hydro One for their continued support of the Women in Engineering partnership, a collaborative initiative involving Ontario Tech University, the University of Waterloo, Western University, and Toronto Metropolitan University. The partnership focuses on increasing enrolment, mentoring, and career opportunities for women in engineering, helping to build a broader and more diverse engineering industry. We look forward to continuing our successful collaboration.

hydro one

Thank you to all our partners whose support makes our outreach possible. The NSERC PromoScience grant (2023–2025), valued at more than $600,000, expanded our programming significantly. It enabled dedicated initiatives for Black and Indigenous youth, programs for students with disabilities, culturally relevant and land-based STEM learning, deeper collaboration with educators and community leaders, and increased access to remote and underserved regions. This funding fundamentally strengthened our ability to deliver equitable, barrier-free STEM experiences and continues to guide the sustainability of our model.

Natural Sciences and Engineering Research Council of Canada | Conseil de recherches en sciences naturelles et en génie du Canada | Canada

We acknowledge the support of the Natural Sciences and Engineering Research Council of Canada (NSERC).
Nous remercions le Conseil de recherches en sciences naturelles et en génie du Canada (CRSNG) de son soutien.

In 2025, 3M helped strengthen the sustainability of our technology operations by developing a more efficient system for tracking, repairing, and managing equipment. Their support has improved program reliability, reduced downtime, and extended the lifespan of our resources.

Our work is further supported by school boards across Durham, Toronto, York Region, and Kawartha Pine Ridge, along with libraries and community spaces throughout local municipalities. Partnerships with MLI Homestay, organizations supporting girls in STEM, groups serving Black youth, Elders and Indigenous organizations, and agencies supporting youth with disabilities all broaden our reach and relevance. National and industry partners—including Engineers of Tomorrow, OnWiE, Engineers Canada, General Motors, and the Canada Summer Jobs program—provide resources, training, and networks that enhance program quality and accessibility.

OntarioTech
Engineering
& Applied Science

ENGINEERING OUTREACH

Where can Science, Technology, Engineering and Math take you?