

BRIGHT MINDS, BOLD FUTURES



Techsploration 2025 Programming Recap

Techsploration Goes to Work

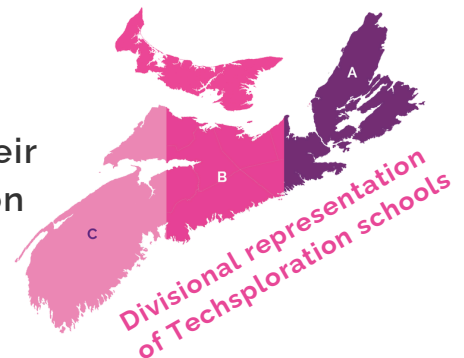
What an incredible programming season! Between February and May, 22 Techsploration teams from schools across Nova Scotia and PEI were matched with inspiring Role Models and spent a day exploring their workplaces firsthand.

Among the MANY unique experiences, students took part in onsite visits to the Michelin tire plant, operated drones for remote sensing at UPEI, and spent a day in the field with NS Natural Resources and the Forestry Sector Council.



Techsploration Goes to School

Teams then shared their experiences with peers at their schools, then refined their presentations in preparation for the three divisional Techsplorer Events.



“

The excitement the girls experience is wonderful to see, and the desire to take part again as alumnae is a sign of how worthwhile it is. Every school should have the opportunity to experience this.

Michelle DeCoff, Teacher

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Techsplorer Events: April + May 2025

Almost 350 students, teachers, role models, partners, and volunteers came together at three NSCC Campuses across the province for events that were chock-full of engaging activities, discovery, career exploration, and camaraderie.

Division A: NSCC Strait Area Campus



As part of the “Abandon Ship!” activity, our Guysborough Academy team, including their teacher and our Executive Director, suited up and plunged into the wave pool! They showcased real-life water safety skills, including how to enter and exit a life raft.

The Strait Area Campus is celebrated for its Cape Breton hospitality, the most delicious baguettes in the history of bread, and its Nautical Institute, which features a wave pool, lifeboats, simulators, and a fire school.



“

I really enjoyed conversing with everyone. Those hours and days I spent, I didn't go on my phone for more than 10 minutes, and it was the happiest and least anxious I'd been.

Alexis Hayden, Eastern Shore Consolidated School

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Since our first expansion in 2008, Techsploration has been holding Techsplorer Events at the NSCC Truro Campus. With a central location in the town of Truro (which is also the HUB of Nova Scotia), the campus is accessible and can house all of our Techsplorers overnight! The students love the (recently renovated) dorm experience as it facilitates bonding, laughter, and unforgettable memories.



We were deeply honoured that the ABMHS Drum Group chose to share their music with us. Their integration of cultural traditions into the performance added depth and meaning to the experience, making it truly memorable.

Division B: NSCC Truro Campus



A standout moment from our Truro event was a powerful performance by the Allison Bernard Memorial High School (ABMHS) Girls' Drum Group. During the banquet dinner, they shared "The Honour Song", a spiritual anthem of the Mi'kmaq people, traditionally performed at gatherings and celebrations across Mi'kma'ki. The Drum Group also played "The Strong Woman Song" after their presentation the next day.



I liked meeting new people and somewhat beating my fear of public speaking.

Kaydence Marshall
Allison Bernard Memorial High School



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Mobile Construction Experience Showcase



At our Event in Truro, we were thrilled to welcome the **Mobile Construction Experience**, led by the Nova Scotia Construction Sector Council (NSCSC).

The NSCSC Youth Engagement Team led Techsplorers through an engaging exploration of skilled trades careers, giving them the chance to try out interactive simulators that provided a hands-on taste of life in the construction industry.

Featured Trades/Occupations

- Boilermaker
- Bricklayer
- Carpenter/Millwright
- Electrician
- Finishing Trades
- Insulator
- Ironworker
- Non-Destructive Tester
- Operating Engineer
- Pipe Trades
- Sheet Metal Worker



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Division C: NSCC Lunenburg Campus



This was our very first event at the beautiful NSCC Lunenburg Campus on the south shore of Nova Scotia! We also launched an initiative this year with the Nova Scotia Dept. of Education and Early Childhood Development, the Nova Scotia Apprenticeship Agency, and the Nova Scotia Dept. of Learning, Skills, and Immigration—welcoming an African Nova Scotia (ANS) cohort!

Our ANS Cohort, from Cobequid Education Centre, was paired with two Red Seal Welders from Irving Shipbuilding. Their presentation WON top prize (\$250) for a rap performance written and choreographed by the students themselves! "Whatchu Know 'Bout Weldin'" featured lyrics about the welding profession and staying safe on the job.



I loved the socializing part of this event. I love how the hands-on work and workshops brought conversation with other teams and how comfortable we got around each other through these activities.

Eunice Boncales, Cobequid Education Centre



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Clean Energy Focused Workshop Showcase



Division C: Hydrogen Fuel Cell Car

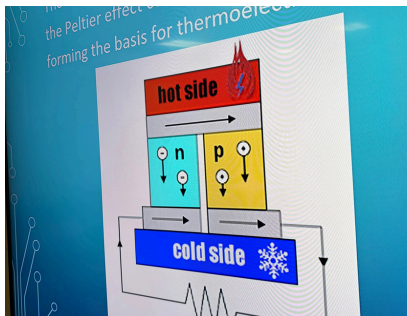
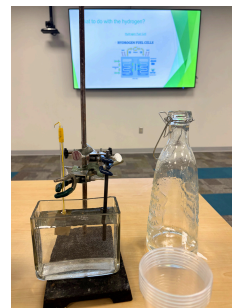
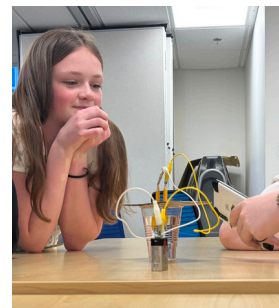
facilitated by Kierra Buddecke, of SuperNOVA

In this hands-on workshop, students explored clean energy by building a model hydrogen fuel cell car. They learned about electrolysis, the limitations of electric vehicles, and how hydrogen can be produced and used as a zero-emission power source for transportation.

Division B: Hydrogen Green Energy

facilitated by Dr. Sarah Martell of Dalhousie University Department of Chemistry

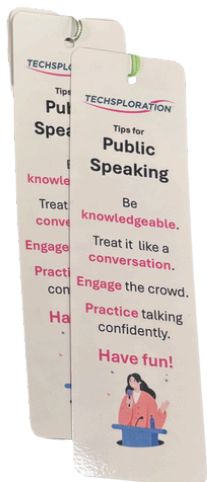
Students learned how Green Hydrogen is created by using renewable energy sources—like wind and solar power—to split water into hydrogen and oxygen through a process known as electrolysis.



Division A: Thermoelectric Conduction

facilitated by Tanya MacDonald of Cape Breton University Engineering/Island WISE

Students learned to use a Thermoelectric Conductor as a method for generating energy and explore how temperature differences can produce electrical energy through thermoelectric materials, and how that energy can then be harnessed to power a small wind turbine.



Public Speaking Workshop

Led by REDspace executive Jenn Priske, our public speaking workshop is held at EVERY Techsplorer Event. Through interactive activities, practice, and supportive feedback, students build skills in speech structure, body language, and voice control. These workshops create a safe space where students can find their voice, overcome fear, and gain the confidence to speak up in classrooms, communities, and future careers.



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Science, Engineering, Trades, and Technology (SETT) Career Showcase

A big thank-you to our amazing partners for sharing such **INSPIRING ROLE MODELS!**

Michelin

LIUNA Local 615

Encore Global

Dalhousie University Dept. of Chemistry

J.D Irving

Armour Transportation Systems

Nova Scotia Community College

Cape Breton University

REDspace

IMP Aerospace

NS Labour, Skills and Immigration

Western Woodlot Services Cooperative

Environment and Climate Change Canada

Canada Border Services Agency

Mainland Nova Scotia Building Trades

St. FX University

AF Theriault Ltd.

University of Prince Edward Island

Canadian Coast Guard College

HRM, Design & Construction/Public Works



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Science, Engineering, Trades, and Technology (SETT) Career Showcase

A big thank-you to our amazing partners for sharing such **INSPIRING ROLE MODELS!**

Construction Association of Nova Scotia

Parks Canada

Nova Scotia Construction Sector Council

Pratt and Whitney

Nova Scotia Power

Irving Shipbuilding

DP Energy

Dalhousie Computer Science

Cape Breton University

Nova Scotia Dept. of Natural Resources

Nova Scotia Apprenticeship Agency

Clayton Developments

SuperNOVA

Construction Safety Nova Scotia

MacKinnon and Olding Ltd.

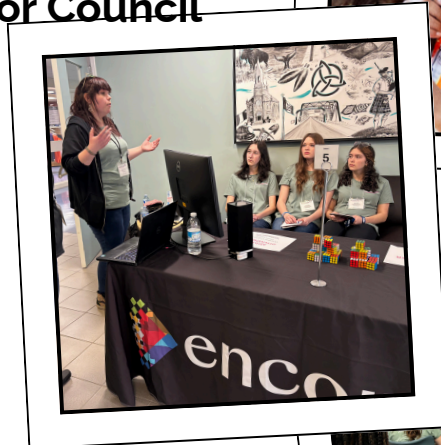
Forestry Sector Council

BIRD Construction

Western Woodlot Services Cooperative

Halifax Regional Fire & Emergency (HRFE)

HRM, Environment & Climate Change/Property, Fleet & Environment



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Speaker Showcase

Division A Keynote Speaker: Victoria Henneberry

Victoria completed the Techsploration program in 2012 and has been a dedicated alumna ever since. From serving on committees and volunteering to becoming a Role Model for a new generation of Techsplorers, she's truly come full circle. Victoria is now a Pipefitter Apprentice with Irving Shipbuilding.



Division B Keynote Speaker: Ardena Paul

Ardena is a Techsploration alumna from 2014, and an Architectural Engineering Technician with Fathom Studio. She is committed to bringing sustainable and representative spaces to Indigenous communities. She also currently serves on Techsploration's Board of Directors.

"Everyone experiences Architecture in some capacity in their lives. It shapes our experiences with our environment and should be representative of the people within."

Division C Keynote Speaker: Peyton Lipsett, B.Eng

Peyton, a 2017 Techsploration alumna and Chemical Engineering grad is now an Engineer in Training with Irving Oil. She emphasized the importance of the students' math and science classes, and also shared that her own career path hasn't been linear, encouraging them to stay open-minded and flexible as they navigate their own journeys.



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Sincere thank you to **Build Right Nova Scotia** for generously sponsoring our Division B Luncheon and to all our amazing partners! Your support makes this program possible!

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