



HUMBER

Faculty of Applied Sciences & Technology

FAST News

NOVEMBER 2022

DEAN'S MESSAGE

Dear Colleagues,

This past month, a spectrum of spectacular emeralds, golds and scarlet have blanketed our beautiful campus and Arboretum. While this colourful transition will begin to fade in Canada, students from our Sustainable Energy and Building Technology Program had the opportunity to immerse themselves in rolling hills and vales of vibrant green on the Emerald Isle!

Lead by Professor Kerry Johnston, academic program coordinator of the Sustainable Energy and Building Technology Program, three FAST students travelled to South West College at the Erne Campus in Enniskillen, Northern Ireland to attend the 'Building a Sustainable Future' Conference.

Empowering our students to become global citizens provides them with a unique opportunity to broaden their learning and educational journey. This commitment to student success also extends to our industry partners.

[Continue reading on next page.](#)

**WE ARE
FUTURE FOCUSED**

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Following a decade of giving to Humber College, the BOLT Charitable Foundation continues to strengthen its commitment to FAST students by providing scholarships to eligible students enrolled in a full-time, construction-related program. We recently celebrated their generosity with a Medal of Gratitude to commemorate their long-standing commitment to the College.

Together with our industry partners, we are also working together to ensure our students are set up for success and graduating career ready with opportunities in co-op and work-integrated learning. Computer Programming Student, Lucky Temitope Osunbiyi, is a prime example of how he landed a full-time position after gaining valuable experience at his co-op placement with Hatch, a global engineering consulting organization.

We have so many more compelling stories that I look forward to you discovering on the following pages, including capturing fun moments on campus that we highlight in our 'Home Sweet Humber' profile.

Autumn is Ontario's most dramatic season, with Mother Nature giving us an awe-inspiring performance of breathtaking colour. Unfortunately, it's also our shortest season. I hope you will take a moment for yourself to explore these final weeks of nature's palette as it begins to welcome the winter season!

With gratitude,
Dr. Farzad Rayegani, P.Eng, FEC.
Senior Dean



FAST STUDENTS EXPAND EDUCATIONAL JOURNEY AT 'BUILDING A SUSTAINABLE FUTURE' CONFERENCE' IN NORTHERN IRELAND

Empowering our students to become global citizens provides them with a unique opportunity to broaden their learning and educational journey.

Recently, three FAST students travelled to South West College at the Erne Campus in Enniskillen, Northern Ireland to attend the 'Building a Sustainable Future' Conference.

Lead by Professor Kerry Johnston, academic program coordinator of the Sustainable Energy and Building Technology Program, FAST students Joshua Canuel, Meriam Khan and Heesu Hong attended the two-day conference filled with an esteemed line-up of internationally renowned speakers in their various fields of expertise.

South West College concurrently hosted this conference along with the International Passive House Association (iPHA) 2022 Camp. Recently certified to Passivhaus Premium, Erne Campus is the world's first educational Passivhaus Premium building generating four times more energy on-site than it uses.

After a sunrise trek up Cuilcagh Mountain, our FAST students and the iPHA participants studied in the CREST Passive Pavilion, one of the most sustainable buildings in the UK and Ireland that meets the Passive House, BREEAM Excellent and Carbon Neutral building standards.

The impressive Passive Lab at the CREST Centre provides the opportunity for experiential learning to support what's required to take the 5 Passivhaus principles – from design and construction to testing and certification.

This incredible learning opportunity would not have been possible without the support from Humber's International Team including, Rebecca Fitzgerald, Rebecca Trautwein, Stephanie Byer and Phuong Anh Pham.

Go raibh maith agat!

thank you / may you have goodness

Visit this [link](#) to learn how student, Joshua Canuel, was inspired by attending the conference.





CELEBRATING BOLT CHARITABLE FOUNDATION'S LONG-STANDING COMMITMENT TO STUDENT SUCCESS

Following a decade of giving to Humber College, the BOLT Charitable Foundation continues to strengthen its commitment to FAST students by providing scholarships to eligible students enrolled in a full-time, construction-related program.

Humber hosted an event with BOLT to acknowledge the generosity of the foundation over the past 10 years, and to present a Medal of Gratitude to commemorate the long-standing commitment to the College. Over its 10-year relationship with Humber, BOLT has provided more than \$200,000 in scholarship support, awarding 68 scholarships to students in 15 different construction-related programs.

It was also a special occasion as BOLT announced plans to continue funding four yearly scholarships worth \$3,000 each to students who demonstrate financial need and are enrolled in a full-time, construction-related program at Humber FAST including Architectural Technology, Civil Engineering Technology, Electrical Engineering Technician – Control Systems, Electrical Engineering Technology – Control Systems, Sustainable Energy and Building Technology, Building Construction Technician and Construction Engineering Technology.

Humber Today full feature story available [here](#)



FUNDING RESEARCH & INNOVATION

FAST PROFESSOR RECEIVES NSERC ENGAGE GRANT TO ADDRESS A HEALTH AND ENVIRONMENTAL CRISIS AT FORT WILLIAM FIRST NATION



Three research projects at Humber College are receiving nearly \$4 million through the College and Community Innovation (CCI) program's College and Community Social Innovation Fund and the Mobilize Grant. These grants are funded by the Natural Sciences and Engineering Research Council of Canada (NSERC), in collaboration with the Canadian Institutes of Health Research (CIHR) and the Social Sciences and Humanities Research Council (SSHRC) to address innovation challenges across Canada.

This includes a research project by FAST professor, Dr. Maria Jacome to build a culturally safe nest to develop community capacity and mentor indigenous students in environment engineering

An additional grant from NSERC also totals \$360,000 over three years. Dr. Maria Jacome, a professor in Humber's Civil Engineering Technology program, along with researchers at the University of Toronto will partner with the Fort William First Nation (FWFN) to address a health and environmental crisis in the FWFN community.

The community has noted that children under five who spent time in an area with more than a century of industrial development were most likely to experience an atypically young onset of leukemia. The research team will identify prevention, management and remediation methods in the polluted sites.

The goal is to build a culturally safe nest to develop community capacity and mentor Indigenous students in environmental engineering and interdisciplinary studies in an Indigenous community setting.

Humber Today full feature story available [here](#)

FAST TEAM RECEIVES NSERC ENGAGE GRANT TO DESIGN ENHANCEMENTS OF MOBILE AIR MONITORING SYSTEM

A Humber FAST research team has received an NSERC Engage Grant to design and develop a novel case for mobile air monitoring systems to collect environmental measurements.

The project Design Enhancements of Mobile Air Monitoring System is led by Principal Investigator and Professor, Dr. Sherif Hanna, P.Eng. and Co-Investigator and Associate Dean, Advanced Manufacturing Cluster, Dr. Shaun Ghafari, P.Eng.



In collaborating with industry partner Ecosystem Informatics Inc. (ESI), the results of this project will help ESI overcome the limitations of traditional measurement techniques and offer a more accurate and reliable measurement alternative product.

Humber Research & Innovation full feature story available [here](#)



WIL SUCCESS SPOTLIGHT

COMPUTER PROGRAMMING STUDENT LANDS FULL-TIME POSITION AFTER CO-OP PLACEMENT

Lucky Temitope Osunbiyi understands the power of networking better than most.

In 2018, Temitope Osunbiyi began teaching himself basic coding languages, like HTML and CSS. Once he learned enough, he started taking on freelance clients referred to him by friends and family.

“I was able to build little things with my basic knowledge, and those projects motivated me to capitalize on it,” said Temitope Osunbiyi.

Temitope Osunbiyi later decided to learn more advanced concepts through Humber’s Computer Programming diploma program because of the college’s reputation for producing successful graduates. This FAST program includes a co-op option where students can apply their skills and knowledge in a real-world environment and gain valuable, practical experience related to their program. Temitope Osunbiyi pursued the co-op option, and after completing three semesters of in-class work, he was eager to begin his four-month co-op work term.

“My Placement Advisor was always there to motivate me. Eventually, I got an email saying, ‘Congratulations.’ I remember screaming at the top of my lungs,” said Temitope Osunbiyi.

Temitope Osunbiyi found a position with Hatch, a global engineering consulting organization that embraces companies’ visions by providing innovative solutions that solve the world’s most complex problems. In this position, Temitope Osunbiyi solved complex coding problems and created software for other Hatch employees.

“It gave me a lot of insight about being a developer. I was fortunate to have supportive teammates and senior engineers. They were always there to help me figure a problem out,” said Temitope Osunbiyi.

Since finishing his co-op work term with Hatch and graduating from Humber, Temitope Osunbiyi has found a full-time position with the Bank of Montreal (BMO) as a developer.

“That’s the power of networking at the end of the day. It will help skyrocket your career as a developer,” said Temitope Osunbiyi.

Full feature article available [here](#)



NAME:

Lucky Temitope Osunbiyi

PROGRAM OF STUDY:

Computer Programming, Co-op

WORK PLACEMENT:

Hatch

“[My co-op] gave me a lot of insight about being a developer. I was fortunate to have supportive teammates and senior engineers. They were always there to help me figure a problem out.”

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INDUSTRY INSPIRING STUDENT PROJECT SUCCESS

Hatch is a global engineering consulting organization that embraces companies' visions by providing innovative solutions that solve the world's most complex problems.

As a valued industry partner, the company provides co-op placements for FAST students (WIL Success Spotlight: Lucky Temitope Osunbiyi) and is a source of inspiration for student projects in the Computer Systems Technician program including recent graduate, Anmol Juneja.

TELL US ABOUT YOUR PROJECT?

Onboarding new hire is a frequent to-do item at Hatch's IT dept. Though the input is different everytime, the rest of the process follows a workflow and repeat. I worked as a Service Desk Technician as my co-op work experience. I noticed the need of automating the New Hire Onboarding Automation Project. After discussing it with my team lead, I was given the chance to apply my skills. By using the latest workflow tools, I standardized and streamlined the process by automating most of the repetitive tasks. This leaves the Hatch IT team with more headspace to work on the other projects or innovations that will have a business impact.

To be more specific, a few months ago, while working in a team, I noticed that our IT Asset Manager and technicians used to spend a long time on new hire onboarding. For example, asking for a new hires's information from their hiring managers in a form of word document, then receiving the information, storing it into a company's database, creating and assigning tickets with all the required information like software, hardware, shared folder's access requirements, etc. It was very time consuming. So I began researching on how to save time during this process. My solution was to automate the process that gathers and stores the information at their respective location. This expedited the process to 5-6 seconds by using useful Microsoft components which Hatch standardized.

WHAT ARE YOU MOST PROUD OF?

The professional accomplishment I'm most proud of is being chosen to work on the New Hire Onboarding Automation Project under the guidelines of Hatch IT with the help of my lead. Eventually, I did it, presented to my IT Lead and Asset Manager, with a demo of a working model. They are implementing this model very soon after going through a change management process. Moreover, I am grateful for guidance from my professor, Dr Timothy Wong, who challenged me.

*This interview has been edited and condensed.



NAME:

Anmol Juneja

PROGRAM:

Computer Systems Technician,
Class of 2022

PROJECT:

New Hire Onboarding Automation

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HOME SWEET HUMBER

Celebrating and showcasing life at north campus and Carrier Drive!



FAST Landscape students gain hands-on experience from Professor Liane Cook in the Humber Arboretum living classroom and apply their knowledge of aesthetics to creatively design our campus gardens.



FAST students gain hands-on architectural education working with physical modeling to explore a scheme in plan, elevation, perspective and constructive systems.

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FAST greeted thousands of students at our Ontario College Fair Booth where our team answered questions, provided programming information and helped students with their postsecondary journey!

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Where mindset meets skillset – the FAST Work-Integrated Learning team hosts an Employer Appreciation event to celebrate student success!



BreakFAST with Professor Timothy Wong to discuss student success and mentorship.



FAST technologists spotted at the Humber Arboretum!

Share your life on campus images in the next FAST News issue!
Please submit to Jennifer Buchalter: jennifer.buchalter@humber.ca



PEOPLE OF CARRIER DRIVE

Tina Antunes and her journey within Humber College

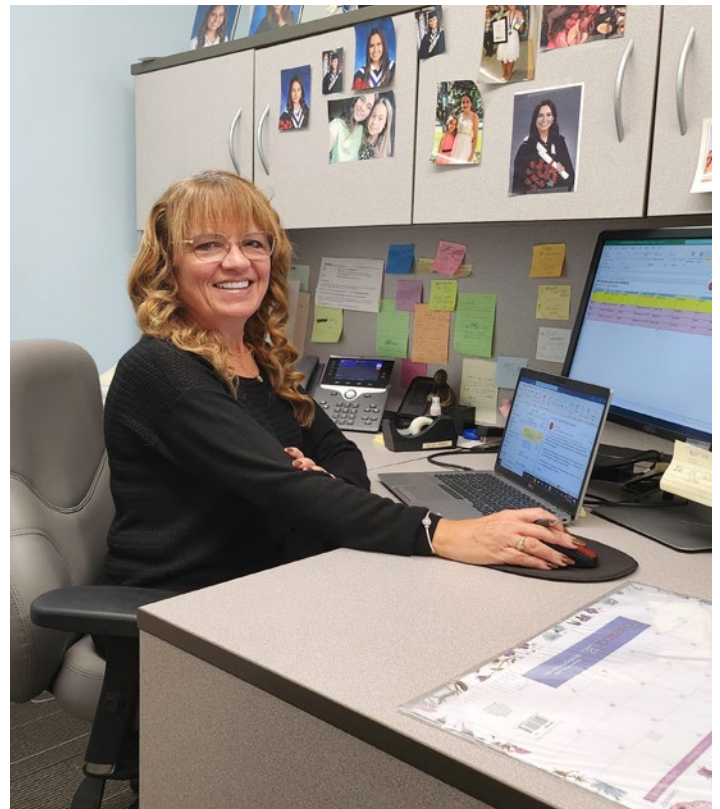
By Cindy Giang

Cindy is a student in the Bachelor of Public Relations program and is currently a Work Study student at the Centre for Skilled Trades & Technology, Carrier Drive

“I am very dedicated to the people I work with and to the students I am helping.”

Supporting the arborist and horticulture apprenticeship programs along with the post-secondary programs at the Centre for Skilled Trades & Technology, Tina Antunes, skilled trades liaison is an integral part of the success of the centre.

Having completed her post-graduate studies in public relations at Humber, Tina started her first Humber position working as a conference coordinator in the seminar department. She then moved to the admissions office before settling into the outreach promotion coordinator for the School of Applied Technology, now known as the Faculty of Applied Sciences & Technology (FAST). Tina took on more administrative tasks that morphed into her current role as a skilled trades liaison. Her favorite moment happened when FAST collaborated with Skills Ontario to host the Ontario Technological Skills Competition, “We would all be together and work interactively. It is a lot of fun watching our students compete.”



“I have seen numerous changes throughout my time working at Humber,” adds Tina. “When I started, there were only the apprenticeship programs, there were no techniques programs, just cabinet making and marine and small powered equipment mechanic.” As skilled trades grew, so has Tina’s role of focusing on recruitment and promoting the FAST programs.

Tina’s passion for the trades has meant that she has become an integral part in Humber’s participation in the Skilled Trades Competitions. Often coordinating behind the scenes, Tina has ensured that students and faculty are aware of the competitions and that Humber has been a robust competitor by encouraging students to compete.

However, her favourite part of working at FAST is helping students navigate the administrative process. “There are a lot of hurdles. I try to help them as much as possible even if I have to go above & beyond. If I am unable to assist them, I will know where they can go to get the answers.” She wants future students to know that “There is a lot of support available to help you.” Students should not be discouraged if they meet a dead end in one path, because there are many pathways that can lead them to the same goal.

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WELCOME TO THE HUMBER TECH SOCIETY

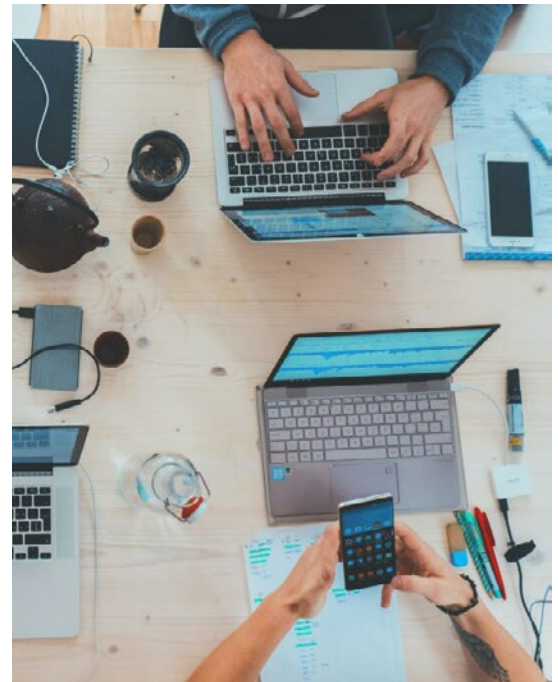
Humber has a cool new student club!

The Humber Tech Society is a collaborative learning culture for like-minded technology enthusiasts, from diverse backgrounds in the Humber community, who are excited to collaborate and co-create innovative projects empowered by cutting-edge technologies.

Spearheaded by two post-graduate students, Canol and Kennedy, in Cloud Computing Graduate Certificates program, with support from Program Coordinator, Imran Muhammad, this new club has already welcomed 40 new members from various programs and is encouraging new members to join!

They are organizing activities in three main areas – Innovation in Tech, Networking & Career, and Entertainment.

Visit <https://humbertech.org/> for more information and help us spread the word by introducing this club to your faculties and students!



GET YOUR HOME WINTER READY WITH FREE ENERGY EFFICIENCY TIPS

Is your home winter ready?

Learn how to make your home more energy efficient and reduce energy costs with a FREE virtual seminar.

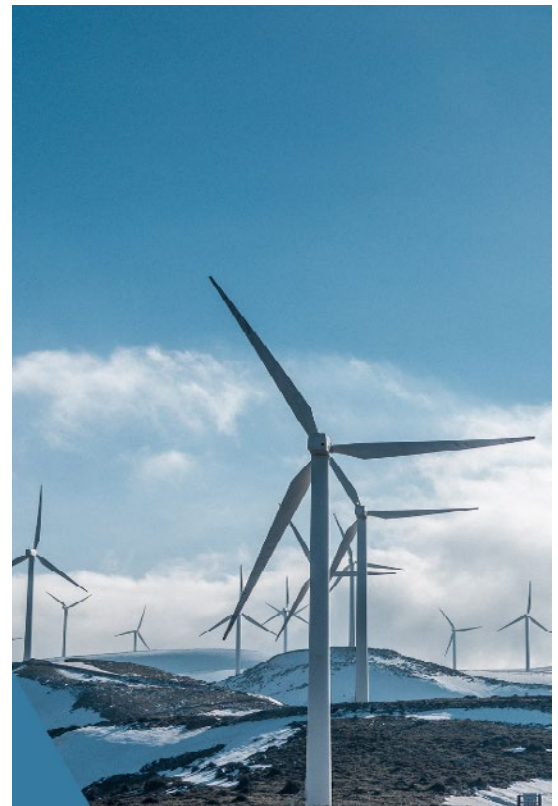
In partnership with Enbridge Gas and Ontario municipalities, our FAST Continuous Professional Learning department is hosting Home Efficiency Retrofit Orientation (HERO) for homeowners.

Date: November 10, 2022

Time: 6:00 PM – 8:00 PM EST

The HERO program helps homeowners incorporate best practice energy-efficiency upgrades in home renovations that improve comfort, resilience, peace of mind, GHG reductions, and lower energy costs. The session will provide insights on eligible rebate programs and topics including: Heating/Cooling systems, Insulation, Windows, Hot Water Heating & reducing Air Leakage.

Registration available [here](#)



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FAST MILESTONES

Congratulations to the following faculty and staff who are celebrating a Career Milestone in November! We truly appreciate your contributions to the Humber FAST community and congratulate you on reaching this important milestone!

10 years

Imran Muhammad

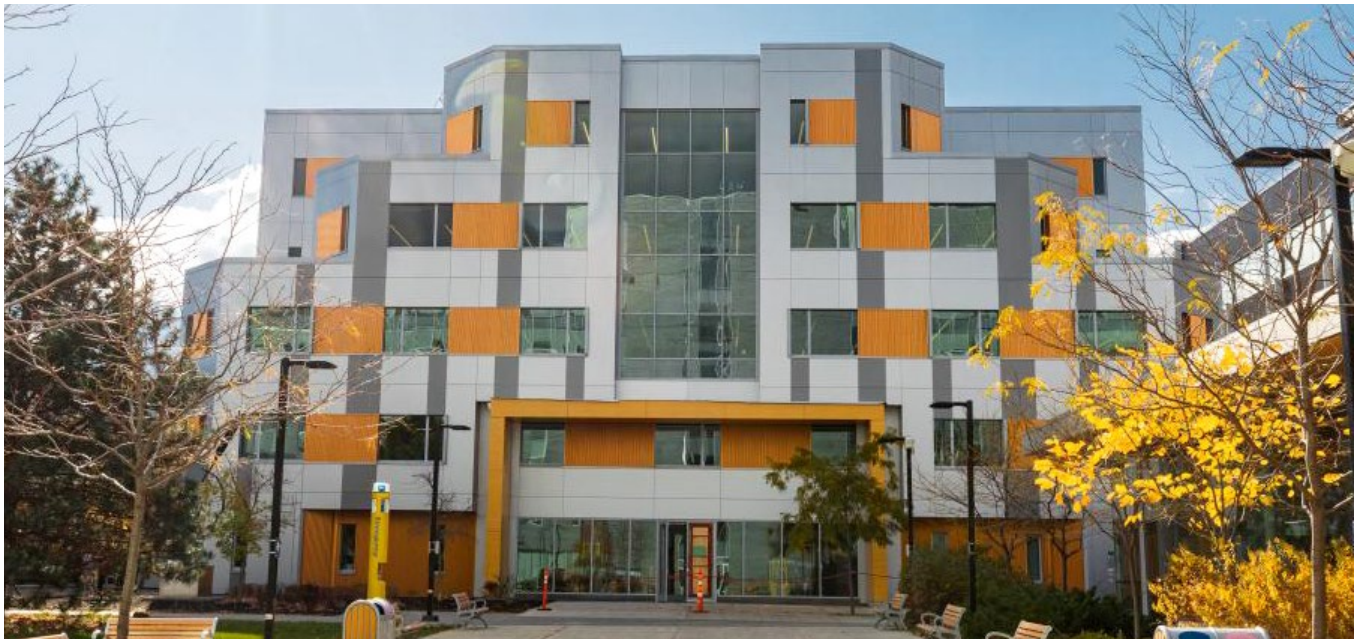
John Behrend

WELCOME TO FAST!

We are excited to welcome Tiana Gregory to our Learning Services Assistants (LSA) team. Tiana will be responsible for providing front line support at the FAST North campus office in NX201.

Tiana joins Humber with an extensive background in customer service, having worked in various roles at Shoppers Drug Mart since 2009. She holds a College Diploma in Office Administration and a certificate in Pre-Community Services at George Brown College.

Welcome Tiana!



UPCOMING EVENTS

NOVEMBER 3

Fall Convocation
Toronto Congress Centre
3:00 – 7:00 PM

NOVEMBER 12

Fall Open House
10:00 AM – 2:00 PM

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ALL DAY BREAK-FAST WITH FARZAD

As we build upon the past five years and embark on this continuous journey together, we welcome your feedback!

To schedule a Break-FAST chat with Farzad or any member of the Leadership Team, please contact the Office of the Senior Dean, Julie Pasquin julie.pasquin@humber.ca



SENIOR DEAN'S IMPACT REPORT 2017-2022

With great pride, May 2022 marked my five-year milestone serving FAST as senior dean. Celebrating the accomplishments of the FAST community is a joy and privilege.





What we have accomplished together during my five-year tenure as senior dean would not be possible without the extraordinary accomplishments of my predecessors, the Humber community and our FAST leadership team.

I humbly present to you the [Senior Dean's Impact Report: 2017-2022](#) – a culmination of our collaborative approach these past five years. We have accomplished incredible growth; launched new programs including three historical engineering degrees; invested in addressing the growing skills gap; fostered strategic industry partners; and helped to transform education on a global stage.

I hope you will take the time to find a quiet corner, sip your beverage of choice and dive into this comprehensive report that chronicles and celebrates our collective achievements!

WE WANT TO HEAR FROM YOU!

FAST NEWS recognizes and celebrates the achievements of our faculty and students. To share your successes with us, please submit stories and images to the Office of the Senior Dean, Julie Pasquin: julie.pasquin@humber.ca

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