

Shaping the Future of ICT: Innovative University Partnerships in Action

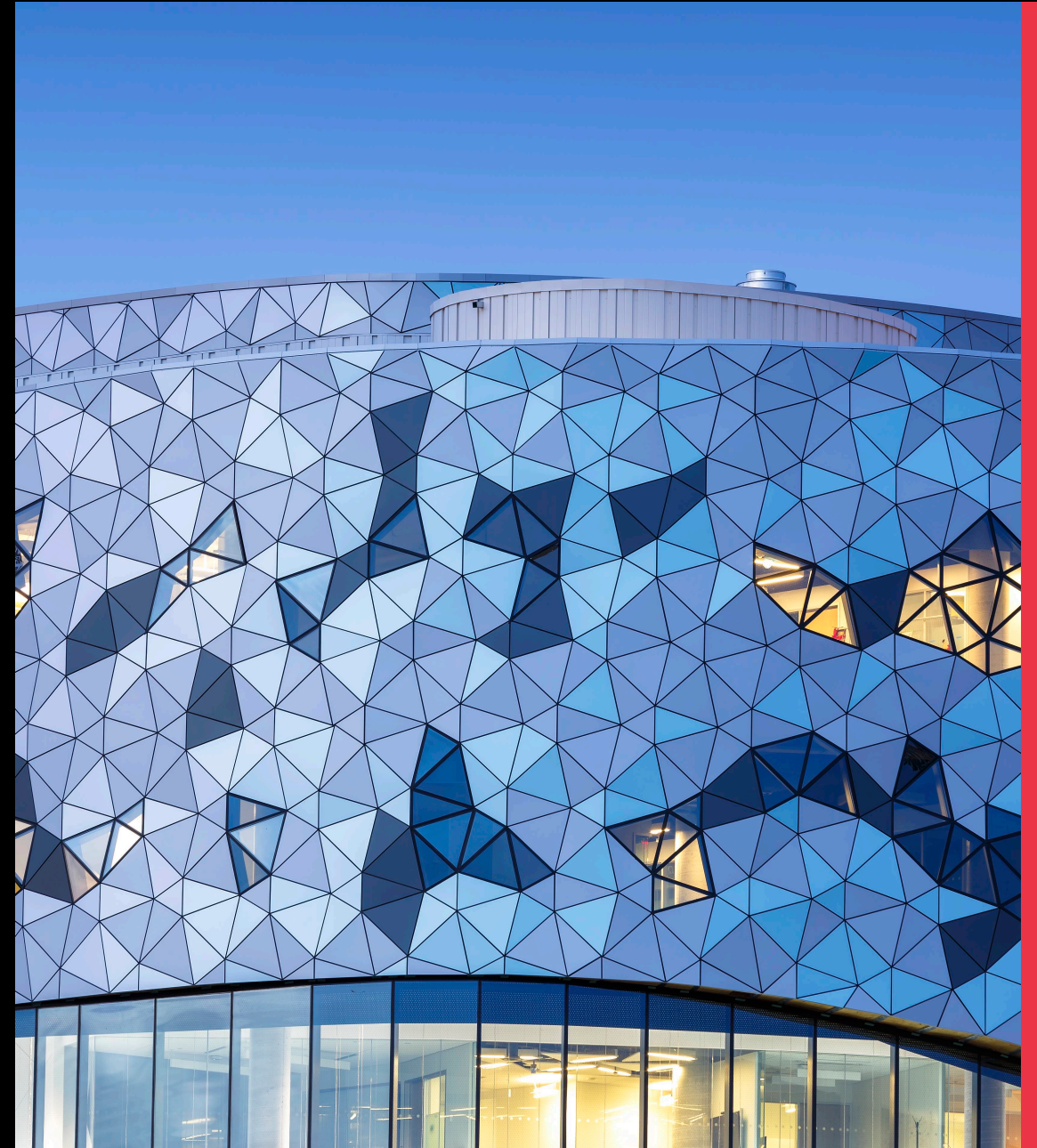
DAN PALERMO, PHD, PENG, FCSCE

DEPUTY PROVOST MARKHAM

PROFESSOR, DEPARTMENT OF CIVIL ENGINEERING
YORK UNIVERSITY

MARILY MOLINA

BUSINESS DEVELOPMENT MANAGER, LASSONDE
SCHOOL OF ENGINEERING,
YORK UNIVERSITY



Presentation Overview

The Urgency of ICT. Highlighting the critical need for skilled talent in the rapidly evolving ICT sector and the role of innovation in meeting this demand.

Bridging the Talent Gap. Introduction to fully work-integrated degree programs as a strategic response to Canada's tech labour shortage, emphasizing the synergy between academia and industry.

York University and its collaboration with industry partners. Overview of current partnerships with the Digital Technologies program at York University's Lassonde School of Engineering, showcasing how these collaborations provide organizations with access to cutting-edge knowledge and resources, and positions them as leaders in innovation.



The Digital Skills Gap

Tech Talent Surge:

Canada needs 250,000 more tech professionals by 2025. [1]

Sector Growth:

High growth in computer systems design and software services.

Diversity Gap:

Low participation from women, youth, and other minorities (BIPOC, individual with disabilities, mature workforce)

Inclusive Potential:

Removing barriers could add 1.7 million workers

[1] <https://thefutureeconomy.ca/op-eds/tech-talent-shortage-julia-blackburn-npower-canada/>

[1] <https://www2.deloitte.com/ca/en/pages/future-of-canada-center/articles/digital-equity.html?icid=de3-en>





A New Way to Bridge the Talent Gap

Fully work-integrated degrees or "apprenticeship degrees"

Combine full-time work with university studies

Benefits for employers:

- Improve access to talent
- Develop your staff in-house
- Long-term retention
- Increase workplace diversity
- Government funding incentives available

Benefits for learners:

- Apply learning to the job immediately
- Access to education with no financial barriers
- Stronger post-graduation job outcomes

The First Work-Integrated degree in Canada

Bachelor of Applied Science (B.A.Sc) in Digital Technologies

Three Specializations: Cybersecurity, Software Development, Data Science

Program Duration: 4 Years, yearly renewable contract

Work & Study Model: 80% on the job, 20% academic learning

Next Start Date: September 2024

- ❖ Co-designed and co-developed with top employers in the ICT sector
- ❖ 6 industry partners in our first cohort from various industries such as: ICT, HR, Manufacturing, Transportation, Energy, Financial Services.



Meet the inaugural cohort, they are excelling at work and school!

ALSTOM

QUANSER
INNOVATE · EDUCATE

BMO

ONTARIO POWER
GENERATION

dayforce

shopify

Types of positions students have been hired for:

- AI Developer
- Cybersecurity Analyst
- Data Analyst
- Integrated Control System Designer
- Software Developer
- Web Developer

Top 3 competencies as identified by Supervisors:

Technology, Critical Thinking, and Team-work



End-of-term supervisor feedback:

All students have been rated as meeting expectations and making excellent progress. Overall academic GPA is over 75%

A photograph of a modern, multi-level interior space, likely a library or community center. The space features large concrete pillars, a high ceiling with exposed ductwork and modern lighting fixtures, and large windows on the right side. In the foreground, there are white plastic chairs and a red sofa. The text "Questions & Answers" is overlaid in the center.

Questions & Answers

Connect with us!



MARILY MOLINA

Business Development Manager
Marily.molina@lassonde.yorku.ca



NICOLE HABIS

Business Development Manager
nhabis@yorku.ca



SARA DEL PIANO

Business Development Manager
sdpiano@yorku.ca

