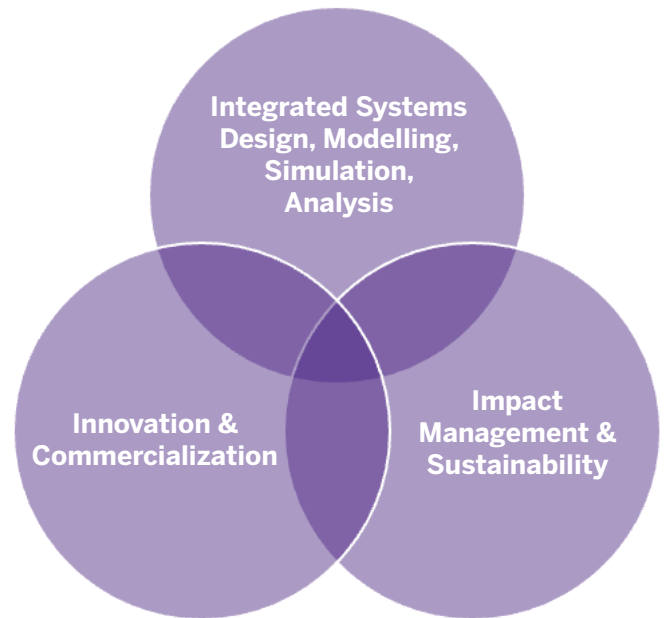


WESTERN'S INTEGRATED ENGINEERING

For Complex Systems Solutions & Sociotechnical Impact

Depth & Expertise, Breadth & Adaptability

- Core Pillar I: **Integrated Systems Design, Modelling, Simulation, and Analysis**
- Core Pillar II: **Impact Management and Sustainability**
- Core Pillar III: **Innovation, Entrepreneurship, and Technology Commercialization**
- Technical Electives:
 - » Build on core courses from multiple Engineering disciplines
 - » Options, multiple credits, and access to technical electives across multiple disciplines to shape a tailored career path



ALUMNI

Haida Liu, P.Eng., PMP

BESc Integrated Engineering '16
Engineer | Capacity Planning & Grid Innovation |
Planning, Engineering & Modernization | Toronto Hydro

The training in Integrated Engineering shows its strength in multiple stages of one's career. First, the ability to speak the language of multiple Engineering disciplines expedited my technical collaborations with teams of colleagues, as well as learning the specifics on the job. Instead of being assigned to a narrowly defined, isolated job, my work has always involved complex technical collaborations as well as project management.

My portfolio has continued to grow in scale and complexity, now involving new layers of learning in municipal governance and regional collaborations for energy development. Integrated Engineering program includes training for stakeholder engagement and market analysis, open-ended problem identification/solving processes, repeated experience with design and innovation processes — which will definitely benefit your career development and continuous learning. As Integrated Engineers you may hold similar roles upon graduation as other Engineering graduates, but the difference will be felt more and more as your career progresses. Your versatility will be an asset to your employer, allowing your portfolios to grow and include multiple aspects of engineering, consulting, and/or business.



Western
Engineering

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Your Future Career Paths as Integrated Engineers

Most noteworthy in the IE graduates' career developments is the complexity of portfolios that require the ability to work with multiple disciplines of Engineering (e.g. Engineering Manager, System Engineer), as well as with the business and legal aspects of engineering projects (e.g. Capacity Planning and Grid Innovation). The versatility of Integrated Engineers, and their ability to manage the problems that occur in the 'interfaces' between Engineering teams/subsystems and project contexts, lends well to the horizontal and vertical movement of their roles and expansion of their professional portfolios.

Most IE graduates build on their Co-op and Internship experiences and course selections, to begin their early stage careers in technical and/or consulting roles. Their roles are in a wide array of sectors including the Automotive, Construction, Energy, Food, Pharmaceuticals, Finance, etc. Visit our website (<https://www.eng.uwo.ca/tc/undergraduate/integrated-engineering/index.html>) for example Co-op and Internship roles previously held by Integrated Engineering students. See below for a examples of IE graduates' career pathways.

Select alumni examples may help you consider your career pathways to pursue. The multidisciplinary foundations of Integrated Engineering may enable your technical role to increase in system complexity. For example, one alum was a **Test Engineering Specialist** at L3 WESCAM in 2020, then a **System Engineer** at General Dynamics in 2025. In addition, the interdisciplinary training in IE may enable your technical roles to grow in responsibility to managing a team or multiple teams of engineers. Examples of IE alumni include being: a **Technical Specialist** at Stormcon Products Inc. in 2020, then an **Engineering Manager** at the same employer in 2025; a Technical Analyst at Deloitte Canada in 2020, then a **Product Manager** at Versapay in 2025; an **Electrical Designer (EIT)** at Quasar Consulting Group in 2020, then a Team Lead at the same employer in 2025.

Select alumni examples may help you consider your career pathways to pursue. The multidisciplinary foundations of Integrated Engineering may enable your technical role to increase in system complexity. For example, one alum was a Test Engineering Specialist at L3 WESCAM in 2020, then a System Engineer at General Dynamics in 2025. In addition, the interdisciplinary training in IE may enable your technical roles to grow in responsibility to managing a team or multiple teams of engineers. Examples of IE alumni include being: a Technical Specialist at Stormcon Products Inc. in 2020, then an Engineering Manager at the same employer in 2025; a Technical Analyst at Deloitte Canada in 2020, then a Product Manager at Versapay in 2025; an Electrical Designer (EIT) at Quasar Consulting Group in 2020, then a Team Lead at the same employer in 2025.

Recent IE Alumni & Featured Students



Natalya Whitla, BEng./HBA'22

Associate Consultant, Bain & Company

Prior to joining Bain, Natalya worked as a consulting summer analyst at Accenture and was a part of engineers without borders working for Ensibuuko as a fundraising Associate.



John Vergeer, BEng./HBA'22

Project Manager, Burns & McDonnell

Prior to joining Burns & McDonnell, John also worked as a demand planning analyst for Lactalis Canada and as a technology risk consulting intern at Ernst & Young.



Maya Archer, BEng.'25

Engineering Intern, McCormick & Company

Prior to joining McCormick, Maya worked as a Retail Productivity and Lean Analyst at Scotiabank in summer 2023.



Makena Murungi, BEng.'25

Project Engineering Intern, IPEX by Aliaxis

Prior to joining IPEX, Makena worked as an intern for Kayana in summer 2021.