

A hand holding a thin rod over a container of small, yellow, hexagonal objects, viewed through a circular opening. The background is a warm, orange-yellow glow.

Engineering a **Brighter** Future

A FIVE-YEAR STRATEGIC PLAN: 2024-2029



Our Vision

Leaders in advancing engineering for global change



Our Mission

Empowering agile and globally conscious leaders in engineering who collaborate to create a brighter future.

Values



Optimistic

We approach change with curiosity and aspire to have a positive impact on society and the world.



Resilient

We are ambitious in our planning, embracing change, setbacks, risk, and innovation as catalysts to success in an ever-changing world.



Inclusive

We build a respectful community and inspire belonging by celebrating our unique perspectives and creating barrier-free pathways to engineering.



Connected

We promote interdisciplinarity and foster collaboration, showing dedication to continuous improvement with an emphasis on sustainable and ethical solutions.



Purposeful

We nurture creativity and innovation, drawing on a foundation of exceptional teaching, research, experiences, and service to inspire future leaders to make a real-world impact and drive advancements in engineering.



PRIORITIES

Unparalleled Student Experience

Our approach is student-centric, prioritizing learners in all we do.

- 1a ■ Continue to evolve our curriculum through rigorous pedagogical research and reflection, preparing globally aware graduates poised to deliver profound impact.
- 1b ■ Create a world-class and accessible experience, from admissions to post-graduation, by providing comprehensive support, services, and resources for the professional, personal, and academic growth of our diverse community.
- 1c ■ Equip resilient graduates with valuable skills and experiences gained through co-op, research opportunities, clubs, teams, and projects, empowering them to thrive in their professional careers.
- 1d ■ Cultivate a vibrant alumni and industry network to enhance our programs and bolster student success.



PRIORITIES

Innovation with Impact

Our novel ideas and applications positively impact lives.

- 2a ■ Strengthen research funding and partnerships aligned with local and national priorities as well as UN Sustainable Development Goals, driving innovation in areas including Bio-innovation, Energy and the Environment, Mobility, and Advanced Manufacturing, while adeptly navigating shifting priorities.
- 2b ■ Lead the digital revolution in engineering, with expertise in data analytics, AI, automation, smart systems, and sensor technologies, and the integration of these into all aspects of our lives.
- 2c ■ Establish a robust support framework to enhance faculty and student research by nurturing industry collaborations, streamlining the grant application process, and expanding resources to acquire and execute on funding.
- 2d ■ Build an entrepreneurship ecosystem that grows and empowers student, faculty, and staff-led start-ups by accelerating technology transfer and commercialization, while facilitating access to capital and resources for early-stage ventures



3.

PRIORITIES

Extended Global Reach

Our inclusive global network is strengthened through collaboration and partnership.

- 3a ■ Develop an integrated partnership framework for seamless collaboration in building our global network of co-op employers, community and research partners, alumni, and donors.
- 3b ■ Boldly communicate and celebrate our success, strengthening our international reputation to attract and retain diverse students, researchers, faculty members, staff, and partners.
- 3c ■ Enhance global mobility and collaboration opportunities that enrich our social consciousness with diverse perspectives.
- 3d ■ Foster public and private sector partnerships that support cutting edge research, elevate the visibility and prominence of unique infrastructure and capabilities, and facilitate international collaborations.



PRIORITIES

Aligned Investments

Our strategic investment in people, technology, and space enables success.

- 4a ■ Thoughtfully design both new and existing spaces to ensure they are well-equipped to serve the evolving needs of our diverse community.
- 4b ■ Enhance and expand space for experiential learning in academic, co-curricular, and extracurricular activities, creating environments for student collaboration to flourish.
- 4c ■ Invest in our dedicated staff, faculty, and researchers, enabling their growth and career advancement, fostering retention, and acknowledging their pivotal role in advancing the Faculty's mission.
- 4d ■ Implement technological solutions to enhance the administration, teaching, and research functions, which will aid in the sharing of resources, assessment of impacts, and facilitate decisions based on data insights.