

Faculty of Engineering

PRIORITIES 2017

The purpose of this document is to provide input from the Faculty of Engineering to the University of Victoria strategic plan process. The Faculty of Engineering priorities in this document reflect the values and priorities of the UVic Strategic Plan and the UVic Research Strategic Plan. We acknowledge with respect the Lkwungen-speaking peoples on whose traditional territory the University of Victoria stands, and the Songhees, Esquimalt and WSÁNEĆ peoples whose historical relationships with the land continue to this day.

VISION

The Faculty of Engineering strives to be recognized as one of the top engineering and computing science schools in Canada. We value academic excellence and aim to be both welcoming and inclusive. Through knowledge of science and technology, and experience with their application to creative problem solving, our graduates support the economic and cultural development of society and help protect the natural environment.

MISSION

Create diverse career opportunities for our students and economic, social and environmental benefits for our community through engineering and computing science.

REPRESENTATIVE RESEARCH THEMES

Data science and digital technologies
Energy systems
Smart cities and infrastructure
Biomedical engineering





FACULTY OF ENGINEERING PRIORITIES



INCLUSIVENESS AND DIVERSITY

Strengthen sense of belonging and being supported for all people in our Faculty

- Encourage diversity in faculty and staff complement
- Support diverse research activities including engineering, science, applied science and scholarly work on teaching and learning
- Increase proportion of women students—Engineers Canada aims for 30% women new licensees by 2030
- Actively work with the university to recruit more indigenous students
- Increase the number of international students

COMMUNITY ENGAGEMENT

Graduate students as global citizens prepared to contribute to society

- Foster outreach to youth, teachers and parents through various channels including Science Venture
- Provide experiential learning opportunities for undergraduate and graduate students
- Develop strategic academic and industrial partnerships across Canada
- Encourage development of national and international connections in research and education
- Engage with the indigenous community
- Secure the philanthropic support required for our priority initiatives
- Encourage volunteer work with non-profit organizations in the community

RESOURCES

Diversify revenue beyond traditional university budget model for financial sustainability

- Increase research and laboratory space per student to national norms
- Increase faculty-student and staff-student ratios to provincial norms
- Provide appropriate work space for course-based projects and student design competition teams
- Fund professional masters with tuition revenue
- Recruit more international students to increase revenue while maintaining program quality

QUALITY TEACHING AND RESEARCH

Deliver high quality teaching and research in our diverse programs and research disciplines

- Sustain our commitment to open competitions and merit in recruiting at all levels
- Increase research funding by working with each other, with community partners, other faculties and universities
- Establish new programs to broaden the student population—Engineering Science, Chemical Engineering
- Create more international experiences opportunities for our students
- Improve retention of first year students
- Continue to assess learning outcomes and refine continuous improvement strategies in all programs
- Optimize undergraduate studies operations and processes
- Increase number of second year students who are placed in their discipline of choice
- Establish high quality professional masters programs
- Keep our undergraduate and graduate programs current
- Enhance the graduate student experience
- Recognize, celebrate and reward success stories
- Ensure continued CEAB accreditation of all Engineering programs

RESEARCH AND INNOVATION

Enable and strengthen our environment to support world-class research and innovation

- Increase research funding
- Train more highly qualified personnel in areas that are in high demand in industry and academia
- Support startup of new faculty research programs
- Improve access to specialized research laboratory infrastructure—aerospace, biomedical, materials, structures
- Identify and support selected promising research fields
- Establish new research centre in data science and foster collaboration across the university
- Encourage industrial collaboration as well as scientific and engineering leadership for the benefit of Canada
- Embrace entrepreneurship
- Recognize and celebrate collaboration and leadership
- Enhance the Faculty's reputation as a world-class leader in Engineering