

Prepare the next generation to engineer a stronger Canada



Western's new state-of-the-art engineering building is a bold investment in the next generation of global leaders and a landmark on campus. Designed with students at the centre, it will be a place where future engineers gain the skills, confidence and experience they need to take on society's toughest challenges.

There has never been a greater need for skilled engineers, with demand growing across every sector from biomedical innovations that improve health care to sustainable infrastructure and climate resilience, to smart cities powered by data, advanced manufacturing that drives industry and aerospace technologies that push the limits of exploration. At Western, students gain the hands-on learning and leadership skills they need to rise to these challenges and shape a better future.

By training more engineers and equipping them with the skills to solve complex problems, Western will help Canada strengthen its innovation capacity, drive sustainable economic growth and build the talent needed to remain competitive on the global stage.

Located south of Alumni Hall and east of the Thompson Engineering Building, the new building will connect the lower South Valley sections of campus with the upper Engineering precinct, creating a visible gateway that unites the heart of Western with its rapidly growing Faculty of Engineering.

The building will accommodate Western's expanding Faculty of Engineering, which is anticipating an additional 880 undergraduate students and 100 graduate students. This growth, driven by a new degree program, will combine education in artificial intelligence with most of the undergraduate programs already offered, ensuring students across disciplines graduate with the skills to lead in a data-driven world.

At the heart of the building is a strong focus on hands-on learning. The Student Experience Hub will be a vibrant co-curricular space where student teams collaborate with faculty mentors on major design-build projects. Maker spaces, interdisciplinary studios and collaborative zones will spark new ideas, inspire creativity and give students the chance to put theory into practice. These integrated spaces will also support teamwork on complex challenges, helping students develop the in-demand skills needed to lead in the workplace and the world.

With your support, we can create world-class spaces that empower students, expand programs and prepare tomorrow's engineers to make a real difference in communities everywhere.

ENGINEERING IN ACTION

Western's new 100,000-square-foot building will be home to signature labs and research spaces that connect students with work in sustainability, health innovation and climate resilience. By linking learning with discovery across every major field of engineering, the building will give students hands-on experience to learn about and help create solutions that shape the future locally, nationally and globally:

Biomedical engineers are developing assistive devices, surgical robotics, medical imaging and biological materials to improve health care in global and remote communities.

Civil and environmental engineers are leading the Canadian Severe Storms Laboratory, studying extreme weather to help reduce climate-related risks.

Software and electrical engineers are driving the AI and Smart Cities Laboratory, using data technologies to improve infrastructure, traffic flow and urban planning.

Mechanical and manufacturing engineers are advancing the Intelligent Manufacturing Laboratory, focusing on robotics, assembly line optimization and machine learning in modern production.

A double-height drone research space with a viewing gallery, enabling cutting-edge exploration.

Are you all in?
Get in touch.

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