Prepare the next generation to engineer a stronger Canada

Western

All in.

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, advanced manufacturing that drives industry, and technologies that push the limits of exploration. At Western, students gain the hands-on learning and leadership skills they need to rise to global challenges and shape a better future.

By training more engineers and equipping them with the skills and confidence 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 not only accommodate Western's expanded enrolment, but also transform how students learn, collaborate and engage in research. Inside state-of-the-art labs, they will work with advanced technologies — including artificial intelligence and autonomous systems — alongside world-class researchers, applying them across every discipline. Designed with students at its core, the facility will equip them with the knowledge and adaptability needed to navigate an engineering landscape defined by rapid change.

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. Upgraded lab spaces will enhance students' experiences working on real-world projects with leading researchers and will create new opportunities for collaboration with industry and government. These spaces will ignite curiosity, strengthen learning and prepare tomorrow's engineers to create meaningful solutions.

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 remote and low-resource communities globally.

Civil and environmental engineers are leading the Canadian Severe Storms Laboratory, studying extreme weather to help reduce climate-related risks, while the Smart Cities and Communities Laboratory uses data technologies to improve infrastructure, traffic flow and urban planning.

Electrical and software engineers are advancing autonomous systems across a broad range of applications — from medical and industrial robotics to smart grids and traffic system.

Mechanical and manufacturing engineers are advancing intelligent manufacturing focused on robotics, assembly line optimization and machine learning in modern production.

Are you all in? Get in touch.

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