



Waterloo
FACULTY OF ENGINEERING



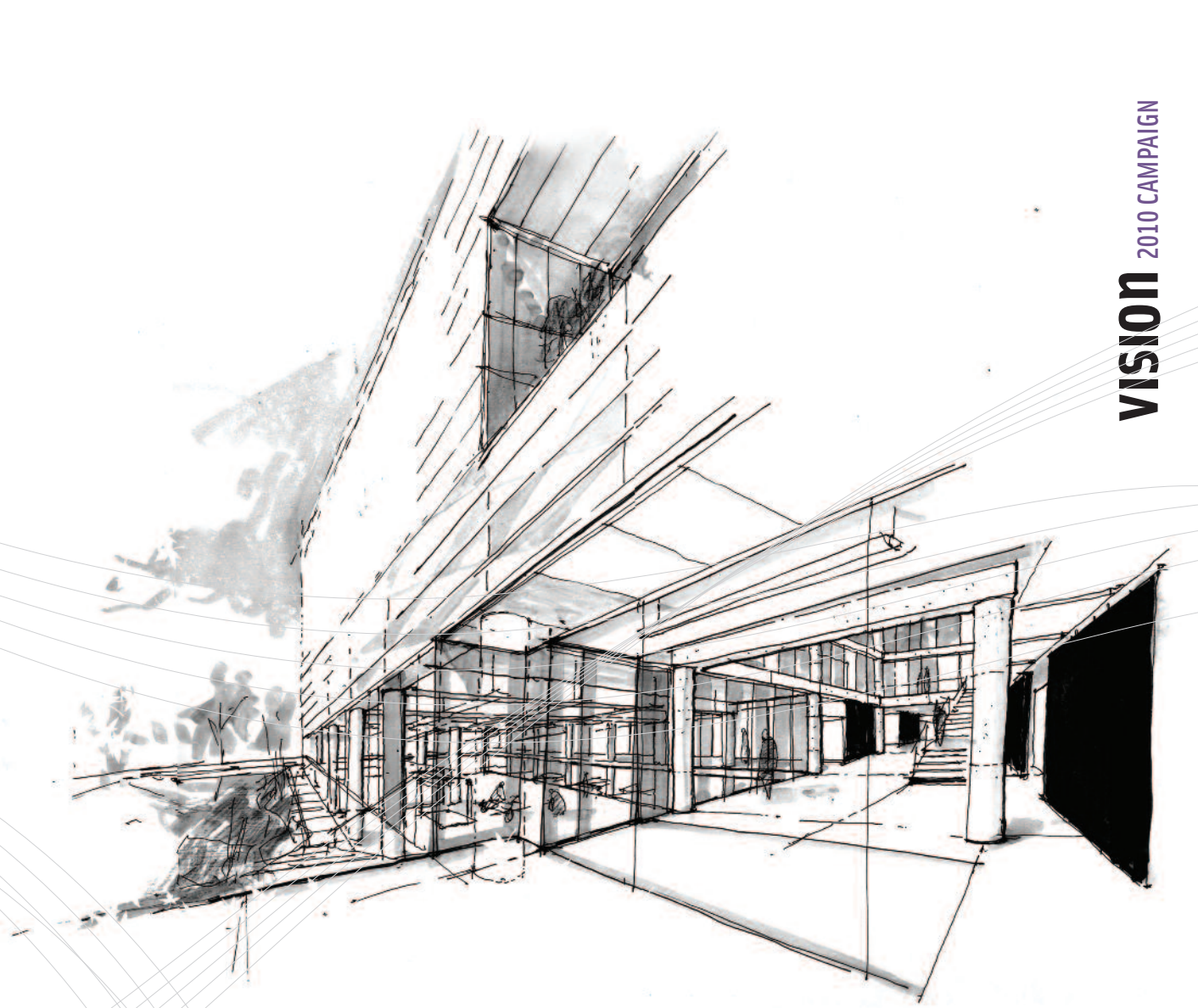
Engineering V

- Engineering V will:**
- Provide new headquarters for two of our departments: mechanical and mechatronics engineering and systems design engineering
 - Expand research space for our largest department, electrical and computer engineering
 - Support and showcase our student projects in the student design centre



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Engineering V

VISION 2010 CAMPAIGN



Engineering V:
A striking new presence for the Faculty of Engineering at the University of Waterloo

1958	Douglas Wright Building (Engineering I) 134,714 gr. sq. ft.
1961	Engineering II 153,648 gr. sq. ft.
1961	Engineering III 145,131 gr. sq. ft.
1971	Carl Pollock Hall (Engineering IV) 111,647 gr. sq. ft.
1987	William G. Davis Centre (DC)* 80,180 gr. sq. ft.
2001	Centre for Environmental & Information Technology * (EIT) 80,180 gr. sq. ft.
2002	Engineering IIIx (Extension) 46,560 gr. sq. ft.
2004	School of Architecture Cambridge Campus 85,000 gr. sq. ft.
2008	Photovoltaic Building 25,220 gr. sq. ft.
2010	Quantum-Nano Centre* 96,011 gr. sq. ft.
2010	Engineering V 153,260 gr. sq. ft.
2011	Engineering VI 122,220 gr. sq. ft.
2012	School of Architecture Graduate Wing Expansion 24,000 gr. sq. ft.
2013	Engineering VII 145,500 gr. sq. ft. *Building partially occupied by Engineering

Guided by our Vision 2010 strategic plan, we're strengthening our already excellent undergraduate program and expanding our graduate program to produce more of the highly qualified personnel needed to tackle today's complex problems. In order to drive innovation and keep Canada competitive, we're intensifying research efforts and working hard to bring the benefits of that research to the public.

Waterloo Engineering is growing

VISION 2010 CAMPAIGN

To support this growth, we need more space. We're planning three new buildings dedicated to engineering, with additions and renovations to others – more than 400,000 square feet in total, the largest expansion in our history.

It all begins with Engineering V. Our first new building will have classrooms, research laboratories, offices for new faculty members and a design centre for our students.

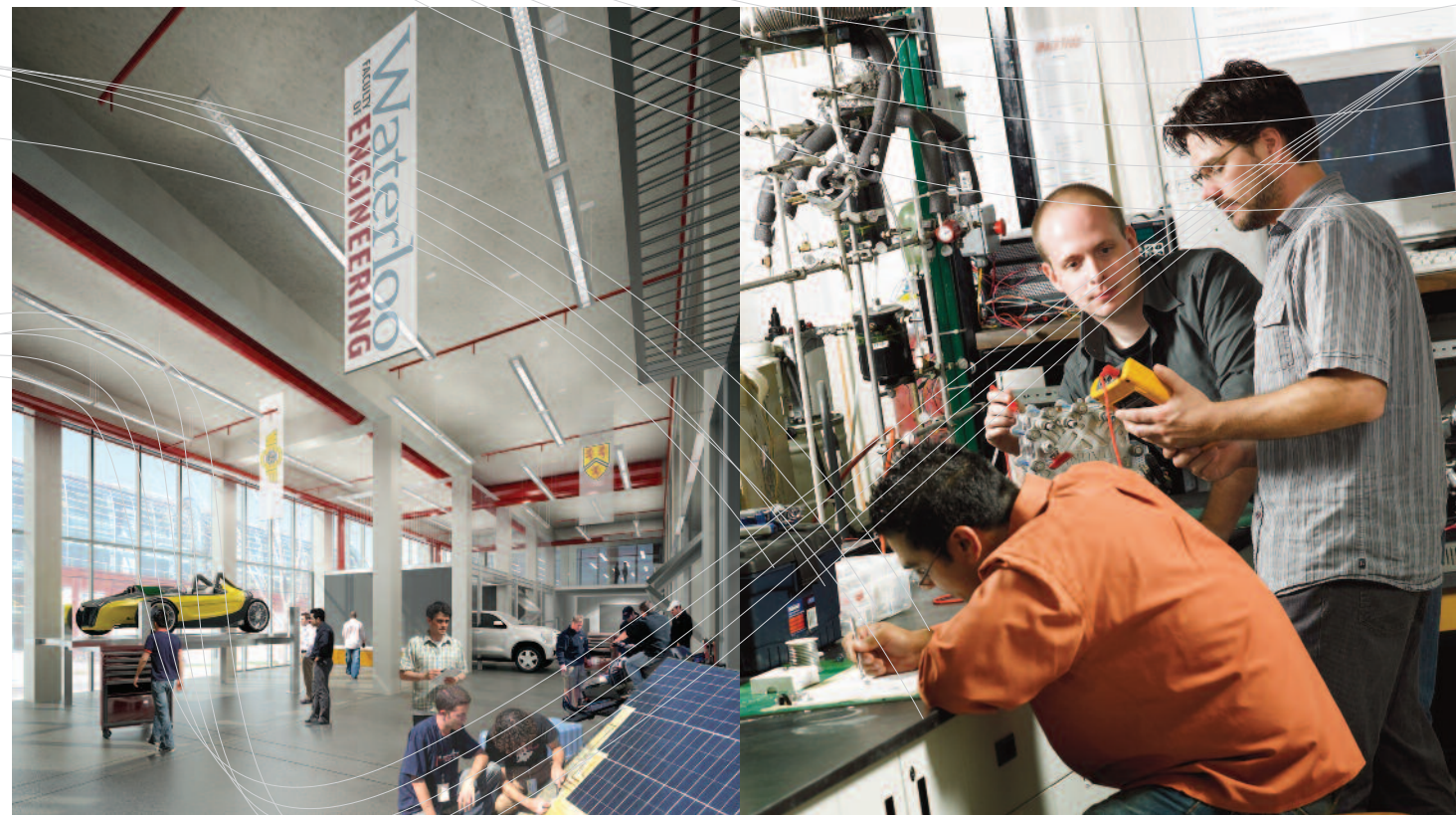
The Ontario government and the University of Waterloo are partners in this venture, and Waterloo Engineering students have contributed \$1 million towards the building's \$50-million cost. Now we're looking to raise \$17 million from friends like you.

a showcase for student projects

Engineering V will be a centre for the kind of hands-on learning Waterloo Engineering is famous for. Studios will provide space for students to work on their fourth-year design projects. The student machine shop will be relocated to Engineering V and improved, thanks to the generous \$1 million donation from our student-run Waterloo Engineering Endowment Foundation. Our student teams will finally get a proper home: a two-storey space with multiple project bays, where they can share resources and equipment, ideas and opinions.

Housed in the building's atrium, the student design centre will be the focal point of Engineering V. It will put our student projects front and centre, where students, faculty, and visitors can see them, and be inspired.

Our new \$12 million, 20,000-square-foot student design centre will include 10 work bays for our student teams, sand and paint shops, engine test labs, design studios, and much more.



room to collaborate

Engineering V will provide headquarters for two departments: mechanical and mechatronics engineering and systems design engineering. Today, these departments are scattered across half a dozen buildings. Engineering V will give them central administrative offices; informal spaces where faculty and students can gather, talk and work; classrooms and common rooms; workshops and studios – in short, the kind of rich, collaborative environment in which research and learning can thrive.

Engineering V will also house electrical and computer engineering's growing research teams. There will be faculty offices and customizable lab spaces, as well as dedicated research facilities such as the Centre for Intelligent Antenna and Radio Systems – the most advanced laboratory for next-generation wireless research in Canada. Engineering V will keep Waterloo at the forefront of electrical and computer engineering research for years to come.

The new building will include advanced laboratories for our growing research teams.



Sedum and stone environmentally-friendly roof

Internal garden

Windows with fritted glass

Landscaping with indigenous plants

Engineering V will be connected to Engineering III by an attractive overhead glass link.

modern and innovative

Engineering V will be a striking new presence for the Faculty of Engineering at the University of Waterloo. At six storeys and more than 150,000 gross square feet, Engineering V will be one of the largest buildings on campus, and with its glass walls, green roof and native landscaping, one of the most innovative.

The new building will expand the engineering side of the campus, bridging the Ring Road with an overhead glass link and creating a new entrance to the university off of Phillip Street. Engineering V will be highly visible, environmentally friendly, modern and impressive.