



# WHY CHOOSE ENGINEERING AND DESIGN AT CARLETON UNIVERSITY?

## Leaders in Engineering and Design

As one of the nation's leading institutions in the study and research of engineering, information technology, architecture, and industrial design, we provide students with an environment that is challenging, diverse and flexible, where students have the ability to specialize in a variety of programs.

## Unique Programs

- The only Communications Engineering undergraduate program in Canada
- The first Sustainable and Renewable Energy Engineering program of its kind in Canada
- The only Architectural Conservation and Sustainability Engineering program in Canada
- A wide range of programs in the cutting-edge areas of Information Technology

## State-of-the-art Facilities

- The only Canadian member of Alcatel's Research Partner program and home to the Alcatel Advanced Networks Laboratory
- Microfabrication Facility, Canada's only flexible research laboratory capable of manufacturing silicon micro-electronic components and devices in support of research on photonics, biomedical devices, etc.
- Microwave and Electromagnetics Laboratory to investigate microwave devices and circuits for communications applications. The lab also has a large anechoic chamber for accurate fully automated antenna characterization
- Pratt & Whitney High Speed Wind Tunnel
- Texas Instruments Embedded Processing Laboratory
- Jo Yung Wong Laboratory for Terrestrial and Extraterrestrial Mobility, Guidance and Control

- Dipak and Tara Roy Advanced Sensor Processing Laboratory for research on wireless communications, medical instruments and imaging
- Hydro Ottawa Laboratory for Smart Grid Technologies
- Fully operational gas turbine engine in the H.I.H Saravanamutto Gas Turbine Laboratory
- Advanced Geotechnical Laboratory to test the effect of earthquakes on building materials
- Environmental Engineering Laboratory focused on advanced approaches to water treatment
- Fire Research Facility to study fire propagation

Our award-winning faculty members are internationally known for their research, with notable achievements in wireless communications, integrated sensors and photonics, renewable and sustainable energy systems, health care technology and intelligent transportation systems.

## Co-op Placement

We have a high placement rate and students can work anywhere in Canada, as well as internationally, for co-op terms. If you choose Carleton Engineering's co-op program, you will gain 16 – 20 months of valuable work experience in a number of challenging and dynamic work areas, earning money while building up your resumé.

## Capital Advantage

At Carleton University you will enjoy all the advantages of being a student in the nation's capital: you will have access to all of the political and cultural happenings in Ottawa and co-op placements at government labs/departments (e.g. the National Research Council of Canada, Health Canada, etc.).



**Carleton**  
UNIVERSITY

Faculty of  
**Engineering  
and Design**

## Our Students are Winners!

Our engineering and design students have proved it in provincial, national, and international competitions:

- 1st, 2nd and 3rd place at the Council of Ontario Universities' Innovative Designs for Accessibility 2013 competition, and 1st and 2nd in 2012
- 1st prize in the National CSCE Capstone Design Project Competition 2013
- 1st at the Canadian Aeronautical and Space Institute (CASI) Free Flight Glider Competition 2012
- 3rd place in the 2013 Walmart Green Student Challenge

Read more about our award-winning students at [carleton.ca/engineering-and-design](http://carleton.ca/engineering-and-design)

## Our Students are Leaders!

Carleton offers a variety of extra-curricular activities that support your engineering education, allowing you to gain practical and theoretical experience inside and outside of the classroom.

We are proud of our active and dynamic student population involved in many groups. Participate with the Carleton Student Engineering Society (CSES), learn to build your own robot with the Robotics Club (CURC), earn your radio licence with the Amateur Radio Club (CUARC), design and construct a sustainable home in the international collegiate Solar Decathlon competition, travel overseas with Engineers Without Borders (EWB), or obtain your commercial or private pilot's licence. Carleton University gives you the chance to get involved and try out more than just your engineering skills.

Our diverse clubs and societies provide valuable experience in planning, communication, leadership and teamwork. Our dynamic student leaders at Carleton University host an annual active National Engineering Week for young students, and our EWB chapter helps high school students explore the complexities of human and social development in our world.

## Our Students Change the World!

Imagine a world where communities provide their own power from local, non-polluting generators, where doctors can learn how to treat a person by practising with a patient simulator that breathes, has a pulse and bleeds, where hearing aids help people hear a conversation and not the noise from the street. Now imagine that you are helping to create this world as a student working on your fourth-year project. That is the world of Carleton Engineering and Design.

### Want to learn more or book a tour?

Visit [carleton.ca/engineering-design](http://carleton.ca/engineering-design) or email us at [odeng@carleton.ca](mailto:odeng@carleton.ca) for details.

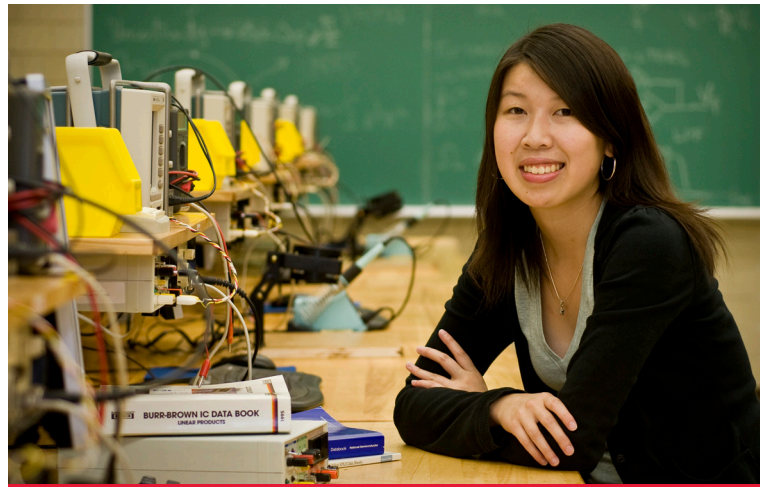
We look forward to seeing you at CU!



Carleton University  
Faculty of Engineering  
and Design



@CarletonU\_Eng



## Women in Engineering

With a growing number of female students, we sponsor and partner with a number of organizations that support and encourage female engineers including IEEE Women in Engineering (recognized for their leadership and initiatives) and Women in Science and Engineering (CU-WISE). We also are proud to participate in Go ENG Girl!

Carleton University offers one of the leading engineering and design platforms in Canada.

## Programs in Engineering:

- Aerospace
- Architectural Conservation and Sustainability
- Biomedical and Electrical
- Biomedical and Mechanical
- Civil
- Communications
- Computer Systems
- Electrical
- Engineering Physics
- Environmental
- Mechanical
- Software
- Sustainable and Renewable Energy

## Programs in the Schools of Design:

- Architectural Studies
- Industrial Design
- Information Technology
  - Interactive Multimedia and Design
  - Network Technology
  - Photonics and Laser Technology

