

The UBC Faculty of Applied Science is home to graduate programs in Engineering, the School of Architecture & Landscape Architecture, the School of Nursing and the School of Community and Regional Planning.

UBC recognizes its vital role and responsibility in delivering world-renowned research for the benefit of society and educating engaged graduates ready to make a difference. Applied Science research consistently feeds back to society, developing solutions to challenges facing our world and ultimately, making our world a better place.

## Graduate Programs

### Engineering

- ▶ Biomedical Engineering (MEng, MAsC, PhD)
- ▶ Chemical & Biological Engineering (MEng, MAsC, MSc, PhD)
- ▶ Civil Engineering (MEng, MAsC, PhD)
- ▶ Clean Energy Engineering (MEng)
- ▶ Electrical & Computer Engineering (MEng, MAsC, PhD)
- ▶ Geological Engineering (MEng, MAsC, PhD)
- ▶ Materials Engineering (MAsC, MSc, PhD)
- ▶ Mechanical Engineering (MEng, MAsC, PhD)
- ▶ Mechatronics Design (MEng)
- ▶ Mining Engineering (MEng, MAsC, PhD)

### Architecture

- ▶ Architecture (MArch, MASA)
- ▶ Landscape Architecture (MLA, MASLA)
- ▶ Urban Design (MUD)

### Nursing

- ▶ Nursing (MSN, PhD)
- ▶ Nursing - Nurse Practitioner (MN-NP)

### Community & Regional Planning

- ▶ Planning (MAP, MSc, PhD)
- ▶ Asia Pacific Policy Studies/Planning (MAAPPS/MAP)

## Research Strengths & Facilities

### ENGINEERING

[www.engineering.ubc.ca](http://www.engineering.ubc.ca)

- ▶ **Advanced Materials & Process Engineering Laboratory (AMPEL).** A vibrant, multidisciplinary centre for materials research, where advanced materials are studied and tools of process engineering are developed and applied. > [www.ampel.ubc.ca](http://www.ampel.ubc.ca)
- ▶ **Clean Energy Research Centre (CERC).** Engineers join forces with sustainability leaders, economists and business professionals to develop solutions to one of our most critical challenges—clean energy for the future. > [www.cerc.ubc.ca](http://www.cerc.ubc.ca)
- ▶ **Institute for Computing, Information & Cognitive Systems (ICICS).** A UBC umbrella organization promoting multidisciplinary research among its 150 members from 18 departments and with industry and external organizations. > [www.icics.ubc.ca](http://www.icics.ubc.ca)
- ▶ **Pulp & Paper Centre (PPC).** An inter-disciplinary, cross-faculty research centre for the benefit of the pulp and paper industry. The Advanced Papermaking Initiative (API) supports the industry in BC to stay competitive in the areas of energy efficiency and production of high-value paper. > [www.ppc.ubc.ca](http://www.ppc.ubc.ca)
- ▶ The **India-Canada Centre for Innovative Multidisciplinary Partnerships to Accelerate Community Transformation and Sustainability (IC-IMPACTS)** focuses on water safety, disease prevention and treatment, and the development of safe and sustainable civil infrastructure. Led by Civil Engineering Professor Nemkumar Banthia, with collaborators Chemical and Biological Engineering Professor Madjid Mohseni, Civil Engineering Professor Pierre Bérubé and Nursing Professor Susan Dahinten. The centre will support new technology spinoffs and the training of more than 700 students and researchers.

### SCHOOL OF NURSING

[www.nursing.ubc.ca](http://www.nursing.ubc.ca)

- ▶ The **Critical Research in Health and Healthcare Inequities (CRiHHI)** unit brings together 13 scholars to promote greater equity in health and healthcare through the uptake of critical knowledge in practice, policy, education and research. > [www.nursing.ubc.ca/crhhhi](http://www.nursing.ubc.ca/crhhhi)

### SCHOOL OF COMMUNITY AND REGIONAL PLANNING

[www.scarp.ubc.ca](http://www.scarp.ubc.ca)

- ▶ The **Centre for Human Settlements**, a CIDA centre of excellence, which conducts multidisciplinary research and capacity-building programs related to regional, urban, and community development. > [www.chs.ubc.ca](http://www.chs.ubc.ca)





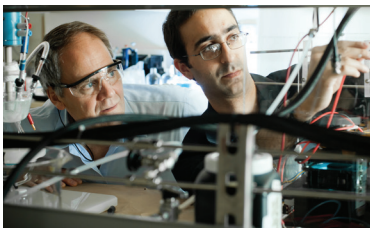
The common goal of UBC Applied Science's research and professional programs is to deliver innovation and education that improves peoples' lives. From nurses and engineers working in First Nations communities and in Africa improving healthcare, to architects, landscape architects and community planners improving the built environment, our graduate students enlist their skills and networks to truly make a difference. As part of one of the world's premier universities, it is not just our vision to educate the next generation of leaders, it is our responsibility.

Dean Marc Parlange



## Applied Science Facts

- ▶ Faculty members participate in several **Networks of Centres of Excellence**, including: AUTO 21, Canadian Water Network, Institute for Robotics and Intelligent Systems, Intelligent Sensing for Innovative Structures, Sustainable Forest Management.
- ▶ The Faculty of Applied Science hosts **3 NSERC Strategic Network Grants: \$15 million** over five years.
- ▶ Home of **42 Chairs and Endowed Professorships; 9 Royal Society of Canada** fellows; **6 Order of Canada** recipients.
- ▶ Architecture **Professor Ray Cole** is Director of the UBC Centre for Interactive Research on Sustainability (CIRS), and has been recognized with a Life-time Achievement Award from Sustainable Buildings Canada and the Green Public Service Award from the U.S. Green Building Council.
- ▶ **Dr. Joy Johnson** is the Scientific Director of the Canadian Institutes of Health Research (CIHR) Institute of Gender and Health (IGH).
- ▶ The UBC Health and Community Design Lab, led by SCARP professor **Lawrence Frank**, located in the School of Population and Public Health, conducts interdisciplinary research on links between land use, travel behaviour, air quality and health. Collaborations include research conducted with municipal governments and transportation authorities across Canada and the US.



## Admissions

The Graduate and Postdoctoral Studies establishes common minimum admission requirements. Your graduate program may have additional requirements. Please see the program website for details.

- › **Engineering**—[www.engineering.ubc.ca](http://www.engineering.ubc.ca)
- › **Architecture, Landscape Architecture & Urban Design**—[www.sala.ubc.ca](http://www.sala.ubc.ca)
- › **Nursing**—[www.nursing.ubc.ca](http://www.nursing.ubc.ca)
- › **Community & Regional Planning**—[www.scarp.ubc.ca](http://www.scarp.ubc.ca)

## Financial Support

Graduate students may receive financial support from: Canada's Tri-Council funding agencies; merit-based awards; teaching and research assistantships; need-based awards and awards from external agencies.

**Engineering:** In addition to UBC and external funding, engineering specific funding is available.

**Architecture, Landscape Architecture & Urban Design:** approximately \$75,000 in ongoing scholarships for entrance and continuing students with Entrance Scholarships about \$5000 each and approximately \$10,000 for entrance scholarships to incoming MLA students, \$7,000 of funding to research students, and \$10,000 for merit awards to current students.

**Nursing:** University merit-based awards plus School of Nursing trainees receive a combined total of over \$350,000 annually from external funding.

**Community & Regional Planning:** In addition to UBC and external funding, SCARP specific funding is available.

# Grad School @ UBC

UBC offers over 130 master's and doctoral degree programs in nearly every academic field imaginable.

Discover more. [www.grad.ubc.ca](http://www.grad.ubc.ca)

## The University of British Columbia

The University of British Columbia is a global centre for research and teaching, consistently ranked among the 40 best universities of the world. Surrounded by the beauty of the Canadian West, UBC embraces bold new ways of thinking that attract exceptional students and faculty. It is a place where innovative ideas are nurtured in a globally connected research community, providing unparalleled opportunities to learn, discover and contribute.