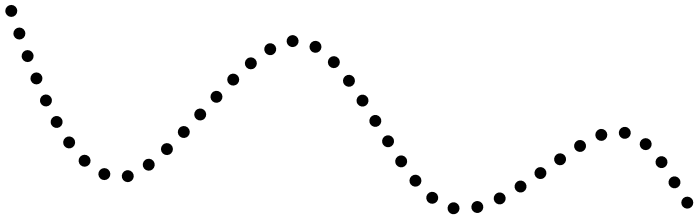
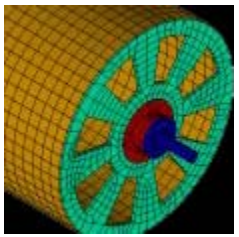
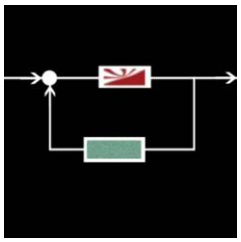






UBC Mechanical Engineering

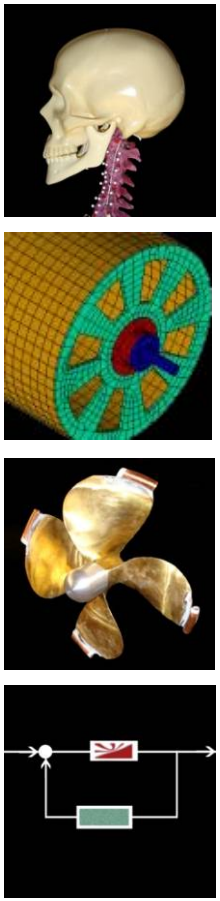
Graduate Studies

UBC mechanical engineering

UBC engineering

A Strong Research Program

- One of the most active research programs in Canada
  - Home to eight Research Chairs, and every research faculty member holds at least one NSERC grant
- A World-Class University, ranked in the Top 40 internationally (Institute of Higher Education Rankings, Shanghai Jiao Tong University)
- Four major research areas:
  - Biomedical, Design and Applied Mechanics, Mechatronics and Manufacturing, and Thermofluids



A Range of Degree Options

Degree Options to suit your needs…

M.Eng. – 1 year project-based professional program

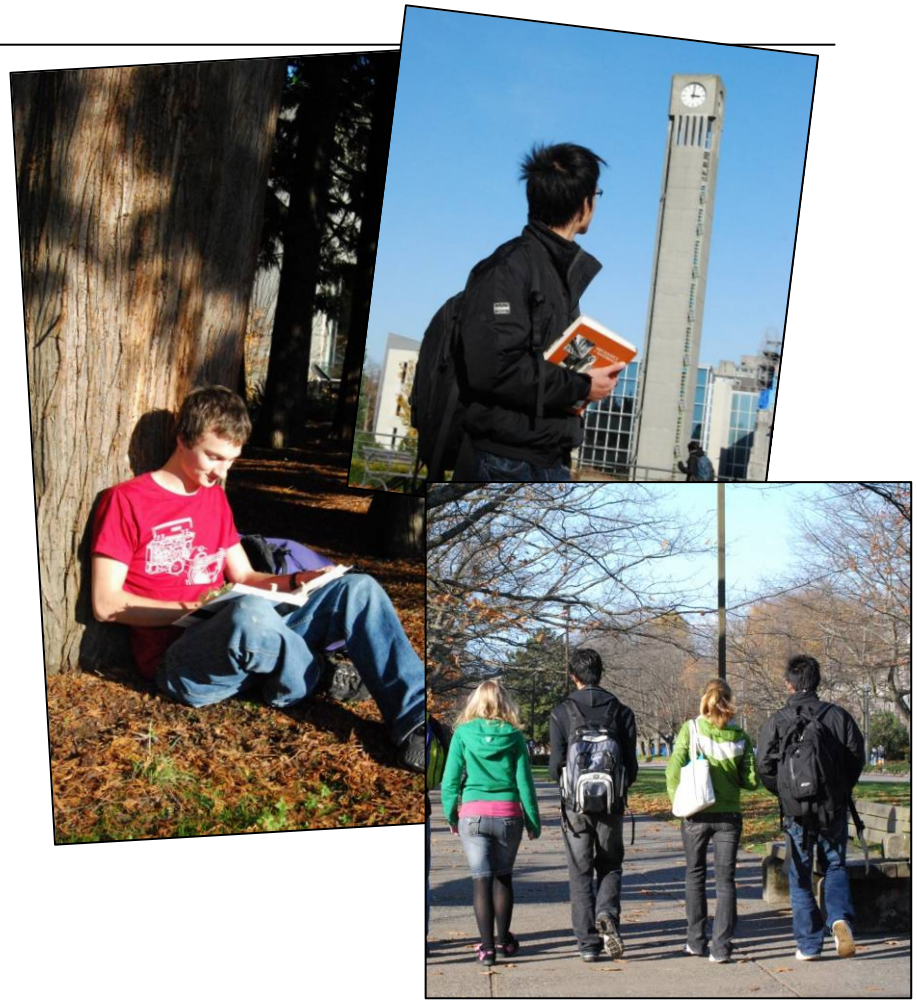
M.A.Sc.- 2 year thesis and research-based program

Ph.D. – 4-5 year advanced thesis and research program

A Great Place to Live

A beautiful place to study and live…

- Beautiful campus
- Vibrant and diverse multicultural city
- Great outdoor recreation
- Mild climate
- At the edge of the Pacific Rim, near a major international airport



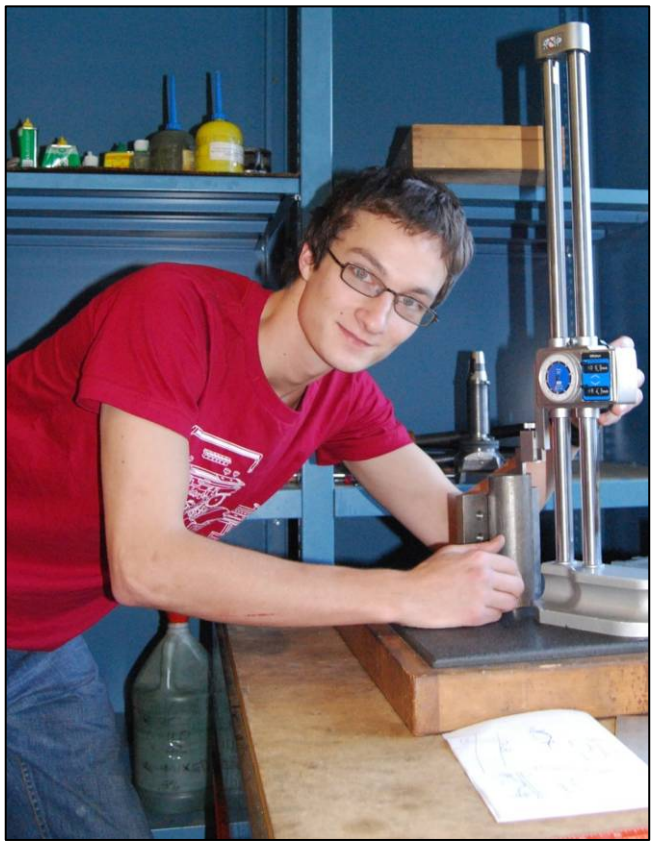
UBC mechanical engineering

UBC engineering

Competitive Tuition & Funding

Funding

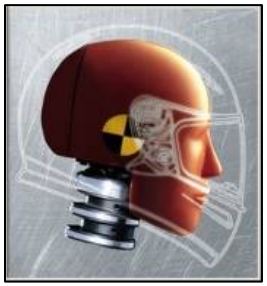
- The Department is committed to providing funding opportunities to **every** accepted M.A.Sc. and Ph.D. student
- Very competitive tuition rates; International students are granted partial tuition waivers that lower rates to those of domestic students
- Scholarships available for outstanding students

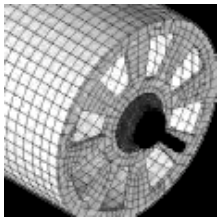


Biomedical Engineering Research Group

Current Projects:

- MEMS drug delivery devices
- Safe vehicle seat design
- Medical robotics & computer-assisted surgery
- Biomedical sensing
- Cerebrospinal fluid pressure sensor
- Biomechanics:
  - Injury prevention & treatment
  - Medical device development
- 3D ultrasound

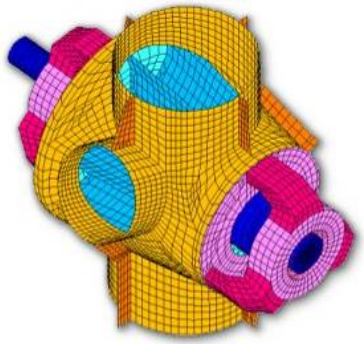




Design and Applied Mechanics Research Group

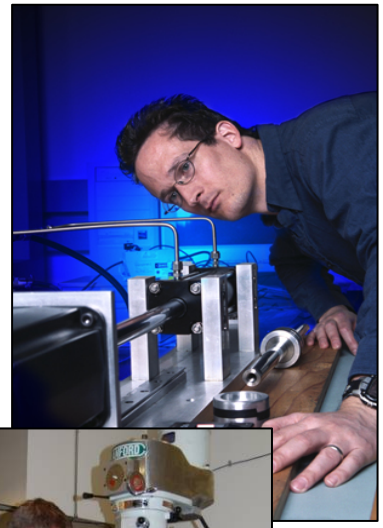
Current Projects:

- Mechanics of nano-composites
- Vehicle occupant dynamics
- Measuring residual stresses
- Development of high-speed scanner for lumber inspection
- Fatigue of Memory Shape Alloys
- Crack detection and propagation in rotating components



Mechatronics & Manufacturing Research Group

Current Projects:



- Virtual machining, milling, drilling, and turning
- MEMS optical scanner
- Vision guided robots, industrial robots
- Robot-human interaction
- High performance machine tools
- Electromechanics

Thermofluids Research Group

Current Projects:

- Combustion simulations
- Partially stratified charge engine combustion
- Modeling CO_2 emissions
- Airless spraying
- Noise-source localization method
- Hydrogen generation and fuel cell reliability
- Natural gas fuel injector

UBC mechanical engineering

UBC engineering

For More Information

Contact Us

For more information,

please visit our website:

www.mech.ubc.ca