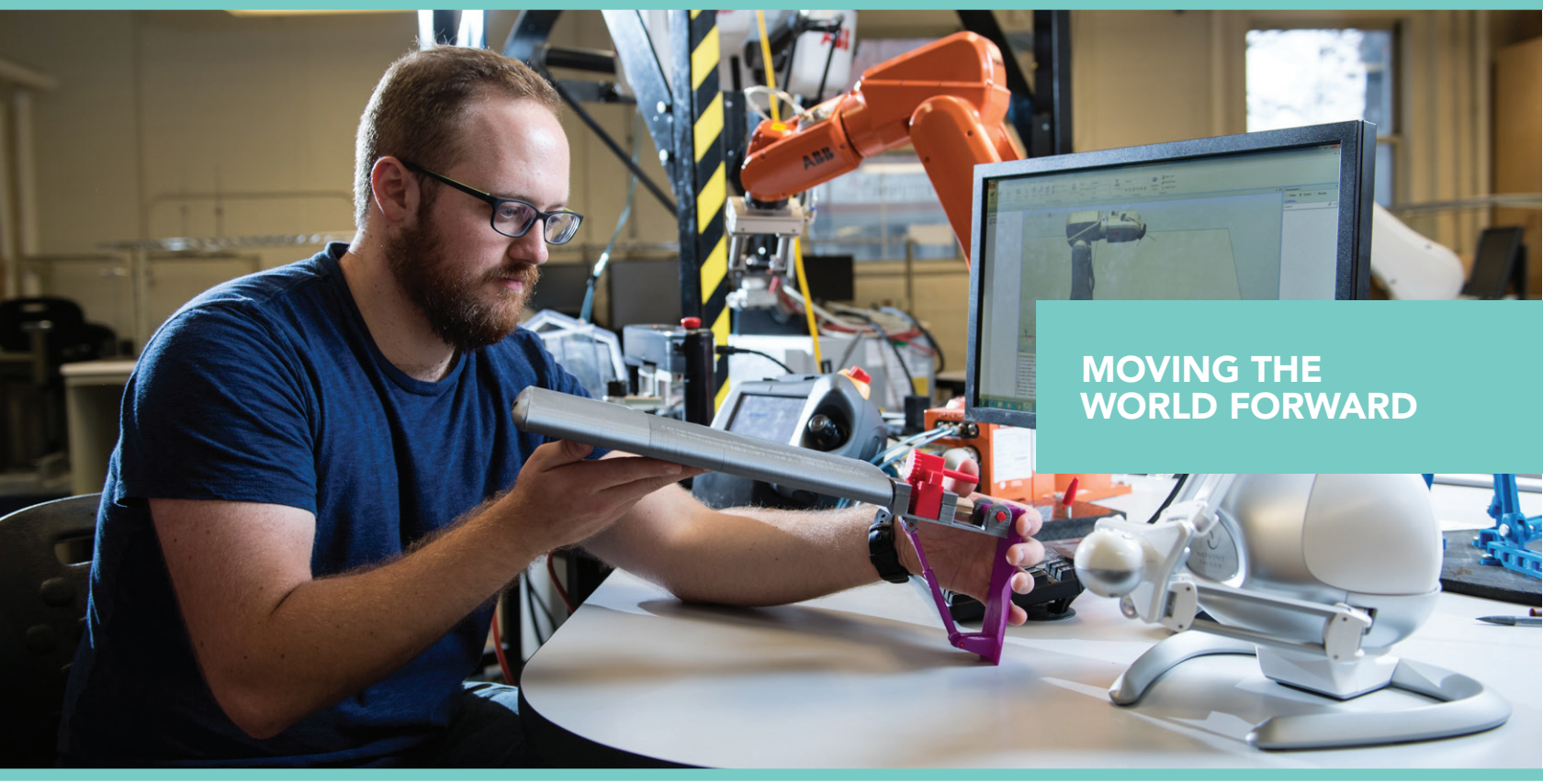
UNB
EST. 1785
UNIVERSITY OF NEW BRUNSWICK

School of Graduate Studies



MECHANICAL ENGINEERING

Invent the future by enrolling in UNB's mechanical engineering graduate program. This diverse program will appeal to those interested in advanced research involving, for example: the design and performance of wind and tidal turbines; the aerodynamics of air and land vehicles; the hydrodynamics of ships and submarines in motion; the mechanical design of complex machines (such as robots); the creation of novel materials (such as nano carbon composites) through advanced manufacturing; and optimizing the performance and control of vehicles and machines of all types.

In conducting their research, students have access to various on-campus labs, research groups and institutes, including: the Advanced Manufacturing Lab, the Robotics and Mechanisms Laboratory, the Bioenergy & Bioproducts Research Lab, the Institute of Biomedical Engineering, Silicon Hall, a research lab for micro & nano fabrication and bionanotechnology, and the Computational Fluid Dynamics Laboratory. Access to low and high speed wind tunnels for performing a wide range of aerodynamic and turbulence research is also available.

DEGREES OFFERED
MScE, MEng, PhD

APPLICATION DEADLINE
Open

STUDY OPTIONS
Coursework, Thesis

DURATION
1-2 years (Master's)
4 years (PhD)

ENTRY TERMS
Fall, Winter & Summer

RESEARCH AREAS

- Acoustics & vibration
- Advanced process controls
- Advanced manufacturing and materials processing
- Biofuels and biomass processing
- Biomedical engineering and biomaterials
- Composites
- High-performance machining
- High performance computing
- Laser machining micro/ nano processing
- Material Characterization
- Multiscale modeling in solid and fluid mechanics
- Mechatronics & design
- Nanostructured coatings
- Renewable energy systems
- Robotics & applied mechanics
- Smart sensors
- Solid mechanics
- Thermofluids & aerodynamics

APPLICATION REQUIREMENTS

- Prior to applying, those interested in the research (thesis) option must first secure faculty research supervision.
- Applicants should hold an undergraduate degree with a minimum cumulative GPA of 3.0 (70%, B, or first or upper second division)
- All applicants are required to submit a complete application and a one-page statement describing their research interests
- International applicants whose first language is not English must submit language scores that meet or exceed:
    - TOEFL = 550 (TWE = 4.0)
    - Computer based TOEFL =213 (4.0 or greater)
    - Internet-based TOEFL = 80 (writing and speaking = 25)
    - IELTS = band 7
    - MELAB = 85
    - CanTest =band 4.5

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