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Memorial University Faculty of Engineering and Applied Science **Department of Mechanical and Mechatronics Engineering** Per-Course Appointment

The Department of Mechanical and Mechatronics Engineering invites applications from individuals interested in teaching the following graduate course in the Fall 2026 Semester.

Subject to budgetary restrictions and sufficient enrolments, appointments will be made on a course by course basis and will not entail any obligation to conduct research or to perform any administrative service for Memorial University. Appointments will be made in accordance with the provisions in the MUN-LUMUN Collective Agreement. Course design and evaluation methods for all courses will be in accordance with the Department of Mechanical and Mechatronics Engineering regulations and the Memorial University Calendar.

Course Title: ENGI 9909 Advanced Thermodynamics (1 credit course)

Course Schedule: To be determined

Campus Location: St. John's

Course Description: This graduate course will start with a review of the First and Second Laws of Thermodynamics, then continue with Irreversible Thermodynamics, Principle of Entropy Generation Minimization, Chemically Reactive Systems, Single and Multiphase Systems, Thermodynamic Relations, Engineering Applications including Advanced Thermodynamics Cycles. This course will be taken by many students, with widely varying backgrounds, in the Master's of Energy Systems Engineering program.

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Qualifications: Bachelor's and Master's degrees in Mechanical Engineering or equivalent. Teaching and research experience in Thermodynamics or Thermal Energy preferred. Applicants should have direct experience in instruction, lab supervision, or curriculum development for this or a similar course, along with experience in thermo-fluid related software instruction in a commercial or industrial setting.

To apply for this position:

Please submit a letter of application, curriculum vitae and the names of referees, electronically or in writing to:

Dr. Bing Chen, Interim Dean
Faculty of Engineering and Applied Science
Tel: (709) 864-8810 Fax: (709) 864-8975
Memorial University of Newfoundland
St. John's, NL, A1B 3X8
Email: dean.engineering@mun.ca

Salary: As per the MUN-LUMUN Collective Agreement

Closing Date: July 16, 2026

Memorial University is committed to employment equity and diversity and encourages applications from all qualified candidates, including women; people of any sexual orientation, gender identity, or gender expression; Indigenous peoples; visible minorities, and racialized people; and people with disabilities.