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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 undergraduate course in the Spring 2024 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 Engineering regulations and the Memorial University Calendar.

Course Title: ME7205 Mechatronics II

Course Schedule: Tuesday, Thursday 9:00-10:15 lecture; Wednesday 2:00-2:50 tutorial; Thursday, Friday 2:00-4:50 lab

Campus Location: St. John's

Course Description: On-campus course; emphasizes the integration of the core technologies on which contemporary mechatronic designs are based. Topics covered include combinational logic circuit design, sequential logic circuit design, modelling and control of servo motors, selection, sizing, and modelling of servo valves and hydraulic actuators, microcontroller technology and interfacing (relays, timers, PWM control, interrupts, digital communication).

For further information regarding this course please visit <https://www.mun.ca/engineering/mech/>

Qualifications: Bachelor's and Master's degrees in Mechanical or Mechatronics Engineering or equivalent (Electrical Engineering with suitable experience will be considered). Teaching experience preferred, and P.Eng. strongly preferred. Applicants should have direct experience in instruction, lab supervision, or curriculum development for this or a similar course.

To apply for this position:

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

Dr. Octavia Dobre, 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: March 15, 2024

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.