

Summer Job Opportunity for MREN 320 Mechatronics & Robotics Engineering Course Development

On behalf of the Mechatronics and Robotics Engineering (MRE) program, the Faculty of Engineering & Applied Science at Queen's University will be hiring one undergraduate or graduate student this summer for the development of hardware, software and laboratories for the new course **MREN 320 An Introduction to Automation**, which will be offered for the first time in Winter 2024. The labs will be based on the Festo modular production system, see **Figure 1**. The equipment comes with lesson plans that must be adapted to the needs of MREN 320, a course that provides students with an introduction to PLC programming and to automation technology.

All applicants should be one (or more) of the following:

- An undergraduate student who has successfully completed 3rd year, or a full-time graduate student, in the MME or ECE program or related engineering program
- A recent graduate of an MME, ECE, or related engineering program

The successful candidate will preferably possess most of the following skills and experience:

- Sound understanding of core concepts in engineering design and problem solving, including automatic control, mechatronics and robotics,
- Hands-on skills in the mechanical, electrical and/or computer engineering fields,
- Can work well both independently and collaboratively with others;
- Demonstrated initiative and creativity in engineering (or other) work; and
- Programming of PLC hardware and software
- Has a keen interest in robotics and mechatronics engineering!

If you are interested, please submit a cover letter, unofficial transcript, and your resume by **Sunday March 5th at 11:59 pm** to Mary Bouchard (m.bouchard@queensu.ca). For undergraduate students, the position will be for 16 weeks of full-time work (normally May to August 2023) at \$17/hour (plus 4% in lieu of vacation). For graduate students, the position will be for 16 weeks, part-time, with a maximum of 10 hours per week of work time. Graduate students must have permission of their supervisor to take on this position.

You must be eligible to work in Canada. For more information on the MRE program, go to: <https://engineering.queensu.ca/programs/undergraduate/mre/>. If you have any questions, please feel free to contact Prof. Surgenor (surgenor@queensu.ca) who will be the supervisor. We appreciate all applications, but only those selected for an interview will be contacted.

