On behalf of the new Mechatronics and Robotics Engineering (MRE) program, the Faculty of Engineering and Applied Science will be hiring one student this summer for the setup and development of new laboratories in the area of automation and control.

The successful candidate will assist faculty members in assembling and testing new laboratory equipment for a new course: MREN 320 (Automation: Machine Design and Sequential Control), primarily focusing on Amatrol tabletop mechatronics apparatus and the Kinova robotic arm. This will include assembling the modular Amatrol apparatus and testing various layouts and combinations of each module, and time permitting, testing integration with the Kinova arm (see Figure 1 and Figure 2 for illustration).

Successful candidate will be:
• 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

Successful candidates will have:
• 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,
• Proven ability to work independently, and
• Initiative and creativity

Experience in the following areas would be considered an asset
• Programming and troubleshooting of PLC hardware and software
• Programming and trouble shooting of mechatronic systems

If you are interested, please submit a cover letter, unofficial transcript and your resume by Friday, March 4th at 4:00 pm to m.bouchard@queensu.ca. For undergraduate students, the position will be for 16 consecutive weeks, full-time (normally May 2, 2022 to August 19, 2022) at $17/hour plus vacation. For graduate students, the position will be for 16 consecutive weeks, part-time, with a maximum of 10 hrs/week.

You must be eligible to work in Canada. Please follow this link for more info on the MRE program. https://mre.engineering.queensu.ca. If you have any questions, please feel free to contact me. We appreciate all applications, but only those selected for an interview will be contacted.

Figure 1: Amatrol table top mechatronics apparatus.

Figure 2: Kinova robotic arm.