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Office, Clerical and Technical
Position covered by the Collective Agreement with USW Local 4120

RE-POST

Senior Computer Engineering Laboratory Coordinator

School of Engineering, College of Engineering and Physical Sciences

Hiring #: 2017-0536

Please read the Application Instructions [1] before applying

Reporting to the Associate Director, Undergraduate, the primary responsibilities of this position are to work directly with faculty to develop and deliver undergraduate Engineering laboratory experiments. As well, the incumbent will manage undergraduate laboratories within the School of Engineering and act as a resource for faculty, teaching assistants, researchers, and upper-year students when they need engineering advice or support.

As a resource for instructors, researchers, and students, the incumbent will develop laboratory experiments from concept to delivery, deliver laboratory experiments to students, and provide expert engineering guidance to students and researchers working in the incumbent’s area of expertise. This guidance includes the development, design, building and maintenance of equipment when required. The incumbent will also be responsible for the design and/or re-design of the instructional material and for teaching theory of the material, especially with the upper year classes in order to introduce/enhance the experiential learning component. This pedagogical component is core to this position.

Additional responsibilities include

- Supervising and training Graduate Teaching Assistants
- Instructing and assisting students with the collection and analysis of experimental data
- Building, maintaining, and calibrating laboratory equipment while ensuring that all activities are conducted in a safe manner
- Assessing and grading student work
- Participating in various SOE, college, or university committees and activities


Requirements of the position include: Bachelors Degree in Computer Engineering or related engineering field plus related Computer Engineering experience and must have either a Professional Engineers License or eligible to register as a Professional Engineer in the Province of Ontario at the time of hiring. Given the prevalence of teaching and mentorship in this position, it is essential that the incumbent possess excellent communication and organizational skills. Some prior experience with teaching or training is an asset. A solid foundation in laboratory operations and experience with research methodologies and techniques is beneficial.

Strong knowledge/skill in the following is required:
• Preparation of laboratory software and operating system including but not limited to MATLAB, 
  Cadence, Xilinx tools, SimpleScalar, and Linux system.
• Design of analog and digital circuits

Working knowledge/skill in the following is required:

• FPGAs (Field Programmable Gate Arrays) using VHDL (VHSIC Hardware Descriptive 
  Language) in Embedded Systems
• Embedded software design for microcontrollers (especially ARM) with C, C++, and assembly
• Logic analysers

Familiarity with the application/use of the following is valuable:

• FPGA development boards and various microcontroller systems
• Electronic test equipment such as oscilloscopes, logic analyzers, and signal generators
• Wireless and radio equipment.

Position Number 126-151
Classification USW, Local 4120 Salary Band 8*
Salary Range $30.29 Minimum (Level 1)
  $33.82 Normal Hiring Limit (Level 3)
  $40.99 Job Rate (Level 7)

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will
be given priority.

At the University of Guelph, fostering a culture of inclusion is an institutional imperative. The
University invites and encourages applications from all qualified individuals, including from groups
that are traditionally underrepresented in employment, who may contribute to further diversification
of our Institution.

*Tentative evaluation; subject to committee review.

Posting Date: 2017 10 25
Closing Date: 2017 11 29

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engineering-laboratory-coordinator-0

Links
[1] https://www.uoguelph.ca/hr/careers-guelph/how-apply