



Career Boost - Ryerson's Student Employment Source

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Supervisor Information

Supervisor's First Name:	Luaay	Supervisor's Last Name:	Hussein
Department:	FEAS, Dean's Office	Faculty:	Faculty of Eng, Arch and Sci
Room No.:	ENG341		
Extension:	3687	Email:	luaay.hussein@ryerson.ca

• Other: No

Student Application Materials Required:

- ☐ Career Boost Approval Email (Mandatory)
 - ☐ Resume: Yes
 - ☐ Cover Letter: Yes
 - ☐ Portfolio: Yes
 - ☐ Transcript: No
 - ☐ References: No
- Language(s): **No**

Method Of Student Application:

- ☐ Email: Yes
- ☐ In Person: No
- ☐ Other: No

Position Information

Job Family: **Research and Analytics**
 Position Title: **Virtual Laboratory Experience for Engineering Design**
 Hours per week: **35.00**
 Number of Positions: **1**
 Hourly Rate of Pay: **\$16.00**
 Start Date: **May-13, 2019**
 End Date: **Aug-16, 2019**

Position supports the following priorities from the Ryerson University Academic Plan:

- ☒ Foster an innovative ecosystem

Summary of Host Department:

Visual laboratory programs are created through computer graphics programs that create three-dimensional animated images.

These programs enable first year engineering students to perform laboratory experiments online which will reduce the university experimental cost and enhance student's experience. The Virtual Laboratory Application Developer will work in one of Ryerson

Computer laboratories under the direction of the supervisor to build complex and technical applications. The successful candidate

will have experience in C language and unity software. The developer will analyze, design, build, test the software interfaces. This role is aligned with the academic plan in that it provides the student a real experience working on planning, developing, and

implementing components of application projects, innovative design, understanding and interpreting project specifications,

analyzing, debugging and solving problems by providing corrective action, and communicating the plan's priorities and results.

MAJOR RESPONSIBILITIES • Develops, designs, builds and implements components of projects in the consultation with the

supervisor • Provides timely status updates to the supervisor on deliverables. • Designs, creates and executes tests to determine

validity and reliability of codes. • Analyzes, debugs and resolves technical and complex problems for different project components and reports deficiencies in the application. • Maintains applications by detecting and correcting failures, and implements enhancements and modifications. • Recommends appropriate solutions to resolve deficiencies.

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Competency Development:

Core Competencies:

❑ Communication

The student will be able to interpret and present ideas clearly, develop communication, analytical, and problem solving skills. Also, the student will develop stronger verbal and writing skills and be able to present information in an organized and concise manner.

❑ Collaboration

The student will be working as a part of a team. This position will collaborate with other team members to develop the VL.

Role-specific Competencies:

❑ Innovation & Problem Solving

The student will use different methods and tools to analyze data, communicated complex information and identify project improvements.

❑ Personal Management & Responsibility

The student knowledge will be enhanced by learning new development tools, languages, and environments. In addition, the student will learn how to manage the project goals and meet the objectives.

Other Competencies :

❑ Other Competences

The student will learn the time management and organizations skills, pay attention to details and demonstrating good judgment. Also the student will learn how to manage multiple task and set priorities in order to achieve the project deadlines

Responsibility Breakdown:

Aid in development and execution of the VL - 30%

coding and analysis of VL - 20%

Research other VL on the market - 10%

Work on the design of the VL - 30%

Assess progress and suggest improvements - 10%

Staff Supervision:
IndividualMeetings

Skills Required:

Academic:

- Good oral communication
- Knowledge of computer software
- Problem solving and thinking
- Technical skills

Personal Management Skills:

- Being responsible and accountable
- Goal setting
- Positive attitude and behaviours
- Task initiative
- Time management

Teamwork Skills:

- Participate in projects and tasks

Technical or Software Knowledge Required:

C++ Programming and Unity.

Skill Development Opportunities:

We appreciate your interest in this position, however, only the candidates selected for an interview will be contacted.

Ryerson University is strongly committed to fostering diversity within our community and amongst our student staff. We welcome those who would contribute to the further diversification of our student staff including, but not limited to, women, visible minorities, Aboriginal people, persons with disabilities, and persons of any sexual orientation or gender identity. All qualified candidates who meet the [Career Boost eligibility requirements](#) are encouraged to apply.

