Cégep Heritage College is located in Gatineau, Québec, next to the National Capital Region's Gatineau Park. It is the region's only public, tuition-free, English-language college, offering innovative and personalized instruction across 19 Career, Pre-University and Continuing Education programs in its modern, state-of-the-art facilities. Cégep Heritage College is a vibrant multicultural institution with staff serving more than 1,500 students. It delivers educational programming that fosters extraordinary student-teacher interaction, student leadership and entrepreneurship, intercultural dialogue and engagement, and high-calibre athletics.

**COMPETITION NUMBER**

C23-24-RE-01

**POSITION**

Teachers - Computer Science (Fall 2023)

The college is seeking part-time and full-time professors to teach credited courses in the Fall 2023 term. **These courses will be taught onsite.**

***Please note that courses are subject to change.**

**420-F10-HR Hardware and Operating Systems**
*(3 hours of theory, 3 hours of labs x 2 group, and 9 hours of availability per week)*
Students learn to identify, configure, troubleshoot, and upgrade the physical components of a computer. They learn how to install, configure, troubleshoot, and manage the Windows and Linux operating systems as well as application software. Students perform operating system tasks using both the GUI and command line interface in Windows and Linux. They learn how to establish professional relationships with users and clients, and how to be a responsible and ethical computer technician. They also learn how to identify user needs, provide user support, and follow up on the support provided.

**420-G10-HR Programming I**
*(3 hours of theory, 3 hours of labs x 2 group, and 9 hours of availability per week)*
Students learn to design, code, and test simple object-oriented programs in the Java language. They learn to write effective, efficient algorithms to solve programming problems and to use the three constructs of structured programming in coding their solutions. They learn the principles of object-oriented programming and use class diagrams to represent the object-oriented solutions to problems. They learn how to code and use a simple class. They develop complete test plans to test their programs and learn to identify and correct common types of errors.

**420-G30-HR Programming III**
*(2 hours of theory, 3 hours of labs x 2 group, and 8 hours of availability per week)*
Students learn about data structures and abstract data types using Java and build mobile and desktop applications. They study the list, queue and stack abstract data types and learn to implement them using different data structures. Students analyze data structures and algorithms to determine efficiency. They learn the principles of unit testing and thoroughly test their code using JUnit test cases.

**420-G40-HR Advanced Topics in Computer Science I**
*(2 hours of theory, 3 hours of labs, and 5 hours of availability per week)*
Students are introduced to advanced topics in Computer Science focusing on code efficiency, robustness, refactoring, maintainability, and source code control. Students perform code reviews and learn to critique others' code. They use Python to solve a variety of computer-based problems and perform data analysis operations. Students also complete a research assignment on a topic of their choice in Computer Science.

**420-K20-HR Systems Analysis**
*(3 hours of theory, 3 hours of labs, and 6 hours of availability per week)*
Students learn the software development life cycle (SDLC) using Agile and continuous delivery methodologies. They learn how to use the tools and techniques necessary for discovering and analyzing user requirements required for information systems. Students learn about user interface design and develop a prototype for a case study.

**420-K40-HR Development Project I**
*(6 hours of labs, and 6 hours of availability per week)*
Students undertake the development of a new computer application in this course. Their primary responsibility is to analyze the requirements for the application, which is fully developed in the Development Project II course. Working in project teams, the students identify the functional requirements of the application, develop models and prototypes, identify the technical alternatives, select an appropriate technical architecture, and start the development of the system using an agile methodology.

**WORK LOCATION**

325 boul. de la Cité-des-Jeunes, Gatineau, Quebec, Canada, J8Y6T3

---

**SALARY RANGE (ANNUAL)**

46,527.00$ - 96,600.00$

**ROLE SUMMARY**

In a general way, the professor's teaching load shall include: preparation of course outline; preparation of classes, labs and fieldwork; teaching classes; adaptation; support and supervision of students; preparation, invigilation and correction of examinations; revision of corrections at the students' request; participation in pedagogical days organized by the College; participation in departmental meetings and required activities.

**MINIMUM QUALIFICATIONS REQUIRED**

- Minimum of a Bachelor's degree in Computer Science or in a related field.
- Several years of teaching experience at the undergraduate or college level is preferred. Fluency in English, both oral and written is required.
- Knowledge of Java, .NET Core, SQL Server and Agile Methodology is required.
- Experience troubleshooting, maintaining and networking Windows and Linux machines is required.

**ADDITIONAL QUALIFICATIONS**

**Ability to:**

- Create a dynamic, challenging, and motivated learning environment.
- Adapt to a variety of student needs and provide appropriate academic and career development support to students.
- Employ exemplary communication and interpersonal skills.
- Demonstrate knowledge of subject matter through practical experiences. Apply theoretical concepts to current workplace needs and skill requirements. Must be flexible as required by the department workloads.
- Stay abreast of changes and new program requirements through regular professional development activities. Be willing to work collaboratively within the department team.

---

**Interested candidates should submit their résumé, along with appropriate documentation ONLINE on our college website in the career page at http://www.cegep-heritage.qc.ca/manitou/.**

Click on the job posting, then click on "APPLY". You will be able to create an account and upload your résumé and cover letter.

**Please note that only online applications will be considered. Only those candidates selected for an interview will be contacted.**

Candidates will be required to submit to selection tests.

**POSTING DATES**

From 2023-04-21 08:00 to 2023-05-07 23:59

***Cégep Heritage College is an equal opportunity employer and encourages applications from women, Indigenous peoples, members of visible and ethnic minorities, and people with disabilities.***