Job Summary:

Reporting to the Manager of Research Computing Services (RCS), the Senior Research Software Developer will lead the Research Software Development team to support research application development at Carleton University. The RCS unit (part of Information Technology Services) is responsible to provide computational support, assistance and resources to researchers on campus.

The Research Software Development team is funded through a new pilot project from CANARIE to provide researchers at selected institutions with local, centrally deployed full-time research software development support. The goal of this pilot is to assist researchers with software development expertise and knowledge of existing tools to reduce development time, minimize duplication and increase research output.

The incumbent is an experienced software developer having supported or been involved in research projects at an academic institution or in industry. This role will involve working with a varied group of clients including faculty members, postdoctoral fellows, graduate students and other IT professionals on campus. The incumbent will be required to liaise with the research community and other stakeholders to ensure needs are being met and to evaluate gaps in provided services.

Roster of Duties:

• Lead a team of qualified developers with the assistance of research computing specialists and other IT professionals to provide research software solutions for researchers across Carleton University.

• Work with the RCS Manager to implement the Project Statement of Work for the CANARIE pilot.

• Lead and participate in software-related activities to enhance or re-use existing software tools for research.

• Manage ongoing research software projects, produce metrics, reports and other documentation as required.

• Provide expertise to researchers on existing software, development environments, languages, libraries, methodologies and team recruitment.

• Survey existing research software and tools, including software available from science.canarie.ca

• Work with the Carleton Office for Research Initiatives and Services (CORIS) to assist researchers in proposal-writing for software components of research proposals.

• Interface with similar groups at other institutions, either directly or through a formal organization.

• Develop and track metrics to evaluate and report the effectiveness and value of the team to researchers on- and off-campus.

• Be involved in outreach and information sessions to engage researchers to ensure the success of the pilot project.

• Other activities that participants deem necessary, with the approval of CANARIE.
Education and Experience Requirements:

- **Education:** Graduate degree in a computationally intensive field or relevant experience. Undergraduate degree in a computationally intensive field with research experience will be considered.
- **Experience:** A minimum of five (5) years of software development and research computing experience in a research focused environment with supervisory experience. 3-5 years progressive experience in an IT management position is required.

Required Skill Sets:

- Excellent knowledge of programming, development and project management in a complex environment.
- Excellent knowledge of software development methods, frameworks and environments.
- Experience with Advanced Research Computing (ARC) resources and awareness of digital research infrastructure organizations in Canada (e.g. CANARIE, Compute Canada).
- Excellent project management skills and use of tools to ensure projects are completed on time and within established budgets.
- Excellent negotiation, interpersonal skills and ability to explain difficult concepts.
- Research experience.

Included Benefits:

For a list of included benefits, please visit Human Resources’ Benefits at a Glance page (under Grant Employees): https://carleton.ca/hr/benefits-at-a-glance/

More Information:

Carleton University’s Research Computing and Services team: https://carleton.ca/rcs/
CANARIE: https://www.canarie.ca/

Contact Information:

Please send your application package (Resume, Cover letter) by email to:

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