

RESEARCH ASSISTANT IN HEALTH TECHNOLOGY
ENGINEERING

Ecole de Technologie Superieure

Direct Link: <https://www.AcademicKeys.com/r?job=241717>

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Posted Jul. 18, 2024, set to expire Nov. 17, 2024

Job Title RESEARCH ASSISTANT IN HEALTH TECHNOLOGY ENGINEERING

Department Department of Software Engineering and IT

<https://www.etsmtl.ca/etudier-a-lets/departements/departement-genie-logiciel-ti>

Institution Ecole de Technologie Superieure

Montréal, Quebec

Date Jul. 18, 2024

Posted

Application Aug. 4, 2024

Deadline

Position Autumn 2024

Start Date

Job Research Scientist/Associate

Categories

Academic Engineering - Other

Field(s)

Job <https://www.etsmtl.ca/>

Website

Apply <https://tre.tbe.taleo.net/tre01/ats/careers/v2/viewRequisition?org=ETS&cws=42&rid=3265>

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Description

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YOUR CAREER AT ÉTS

Join a research team at ÉTS, led by [Sylvain Bouix](#), for a project that involves the management, processing and archiving of multimodal data for an international study on schizophrenia.

You will join a renowned school whose mission is to train the engineers of tomorrow and will benefit from benefits and working conditions highly appreciated by our employees:

Personalized schedule all year round Work-life balance Possibility of teleworking: hybrid formula that combines the best of teleworking and working in the office Sports center on site Incentive transportation program Bixi subscription discount NEW: Collective agreement available for research assistants and associates giving you access to a vacation plan, compensatory allowance for insurance and a group

YOUR ROLE

What impact will your role as a research assistant at ÉTS be?

The successful candidate will contribute to the bioinformatics infrastructure of this project. The role of the research assistant will be to develop, maintain and improve pipelines based on the latest research with a focus on version tracking, data provenance and high-performance computing.

On a daily basis, you:

- **You will assist Sylvain in his research activities** as well as neuroscientists in the analysis of their data.
- **Design, test and evaluate neuroinformatics tools.** Your knowledge of agile software development and continuous integration methods will be a definite asset.
- **Deploy data processing pipelines on high-performance computing servers and cloud platforms.** Your rigor and attention to detail are key to your success in this role.
- **Collaborate in the development and improvement of the Research Chair's management processes and tools.** Your organized and results-oriented project management will be essential to the growth of the laboratory.
- **You will contribute to the development of the network of external partners and participate in the search for funding from various funding organizations.** You will be in contact with various stakeholders and will ensure administrative and financial follow-ups with them.
- **You will be responsible for maintaining your knowledge and staying on the lookout for new opportunities related to the themes of the Chair.** Participating in conferences,

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congresses and carrying out scientific readings related to your field of expertise are among the tasks that stimulate you.

REQUIRED PROFILE

You will be successful if:

- **You have an engineering degree, as well as 2 years of experience** or equivalent in a relevant discipline, notably in computer engineering, bioinformatics engineering, biomedical engineering or health technology engineering.
- **You have mastered Python programming and its tools in artificial intelligence, deep learning, and data science.** Knowledge of other programming languages ??such as R, SAS, matlab will be an additional asset for your success.
- **You know how to design, develop and maintain robust heterogeneous data processing pipelines in cloud environments.** Your expertise in SQL and/or NoSQL database management and visualization systems (eg Grafana, Apache Superset) will be important.
- **You are recognized for your communication and writing skills and for your positive and collaborative attitude.** Your diplomacy and your ability to summarize allow you to lead workshops and write impactful publications, in French and English.
- **You know how to adapt to changes inherent in research.** You know the health technology research environment and you know how to bounce back when the unexpected occurs.
- **Please note that your application has additional assets if you have mastered the following knowledge:**
 - Linux environment and Bash programming;
 - VR/AR technology;
 - Container technology (eg, Docker, Kubernetes);
 - Building dynamic web applications (eg, React, Angular, D3);
 - Basic knowledge of neuroscience and neuroanatomy;
 - Biostatistics;
 - Knowledge of medicine.

Do you have the profile we are looking for to join the project? We look forward to meeting you!

Applying to ÉTS, what a brilliant idea!

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EEO/AA Policy

ÉTS implements an equal access to employment program and invites women, Aboriginal people, members of visible and ethnic minorities, and persons with disabilities to apply. Valuing inclusion, we are committed to overcoming the barriers encountered by persons with disabilities in the workplace. We offer measures to facilitate accessibility and are prepared to provide assistance during the pre-selection and selection process to candidates who wish it. We encourage equity, diversity and inclusion, and consider these values ??to be fundamental in our work environment. Through our equal access to employment program, we are taking concrete measures to increase diversity within our work teams. In this context, we ask that you kindly identify yourself so that it can be taken into account throughout the selection process. To do this, you will need to complete the equal access to employment form and send it to us along with your resume. The candidate must have the right or permission to work in Canada from the start of the assignment and for the entire duration of the assignment.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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Canada