

Professor in Systems/Computational Neuroscience

Faculty of medicine / Department of neurosciences

Mandate description

The Département de neurosciences at the Université de Montréal invites applications for a faculty position at the assistant or associate level, in Systems/Computational Neuroscience. We are seeking candidates who use experimental and/or computational approaches to study how large-scale distributed brain networks implement behavioural-level phenomena such as sensorimotor control and decision-making, with a particular emphasis on system-level learning mechanisms. Ideal candidates will either combine multi-electrode, multi-area neurophysiological studies in behaving animals (in particular non-human primates) with sophisticated computational modeling of brain function, or alternatively, will use predominantly computational approaches to study how biologically realistic large-scale and recurrent network models simulate behavioral-level phenomena. The Département de neurosciences offers state of the art laboratory space and animal facilities for rodent and non-human primates research.

Montréal is a rich academic environment, with 4 major universities and a strong tradition of systems neuroscience. The candidates will have outstanding opportunities for collaborations with other systems neuroscientists at the Université de Montréal, McGill University, Concordia University and the Université du Québec à Montréal, as well as with leading experts in artificial intelligence, machine learning and deep-learning networks who are centered in the MILA/IVADO at the Université de Montréal.

Responsibilities

- The appointed candidate will be expected to maintain an active research program, supervise graduate students, have international collaborations, contribute to the academic life of the Department of Neurosciences, and teach undergraduate and graduate courses.
- The candidate will collaborate closely with researchers working in three affiliated research centers at University of Montreal: CHU-Ste Justine (Pediatric Hospital), Centre Hospitalier Universitaire de Montréal, Hôpital du Sacré-Coeur de Montréal.
- The teaching language is French; consequently, non-French-speaking candidates should become able to teach in French no longer than three years after their appointment.

Requirements

- The candidate needs to hold a PhD in neurosciences (or equivalent) and demonstrate significant experience at the post-doctoral level in the field of computational neurosciences.
- The candidate needs to show exceptional track record in the field, including in sensorimotor control, decision making, neurophysiological studies in living animal, and computational approaches in order to study how neural network are modeling behavior.
- The candidate needs to hold teaching experience at graduate and undergraduate levels, as well as experience in supervising post-doctoral fellowships, research assistants, and highly qualified research personal.
- We will prioritize candidates with exceptional research productivity with a publication of articles in the best journals in the field, as well as a strong track record of research funding from national and international research agencies.
- The ability and interest of the candidate to work in a multidisciplinary team (biochemists, biologists, engineers, bio informaticians, and clinicians) is mandatory.
- Have sufficient knowledge of the French language (written and spoken) or be determined to learn it *.

General information

Posting No	MED 4-18 / 4
Posting period	June 15th, 2018
Salary	The University of Montreal offers a competitive salary and a complete range of employee benefits
Start date	Autumn 2018. The announcement will remain open until the selection committee finds an acceptable candidacy.

Application procedure

Interested candidates should send their curriculum vitae, a letter explaining their motivation, research interest and competence in their area of expertise, and three letters of support, no later than June 15th 2018; at the following address (email correspondence is preferred):

Dr Patrick Cossette, directeur
Département de neurosciences
Faculté de médecine
Université de Montréal
C.P. 6128, succursale Centre-ville
Montréal (Québec) H3C 3J7

E-mail : nancy.crete@umontreal.ca

*Linguistic Policy

The Université de Montréal is a Québec University with an international reputation. French is the language of instruction. To renew its teaching faculty, the University is intensively recruiting the world's best specialists. In accordance with the [institution's language policy](#), the Université de Montréal provides support for newly-recruited faculty to attain proficiency in French.

Confidentiality

The Université de Montréal application process allows all regular professors in the Department to have access to all documents unless the applicant explicitly states in her or his cover letter that access to the application should be limited to the selection committee. This restriction on accessibility will be lifted if the applicant is invited for an interview.

Equal Access Employment Program

Université de Montréal promotes diversity in its workforce and encourages members of visible and ethnic minorities as well as women, Aboriginal people, persons with disabilities and people of all sexual orientations and gender identities to apply.

Immigration Requirements

We invite all qualified candidates to apply at Université de Montréal. However, in accordance with immigration requirements in Canada, please note that priority will be given to Canadian citizens and permanent residents.



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