

L'Université
de Montréal
et de votre
carrière.

Deeply rooted in Montreal and dedicated to its international mission, Université de Montréal is one of Canada's Top 100 Employers. Like the city whose name it bears, it is effervescent and multicultural.

UdeM attracts over \$500 million in research funding every year, making it one of the three university research hubs in Canada. It also ranks among the best universities worldwide and among the five best French language universities.

Through the achievements of the members of its community, UdeM participates in building today's and tomorrow's world.

Assistant, Associate or Full Professor specializing in Neurocircuitry of learning, motor control and memory (tenure track)

Department of neurosciences, Faculty of Medicine

The Department of neurosciences invites applications for a full-time faculty position at any rank in Neurocircuitry (or neurobiology) of learning, motor control and memory. The successful candidate will be responsible for developing an independent, competitive, and original research program that addresses mechanistic questions that bridges the fields of molecular, synaptic, cellular, systems and computational neuroscience. Priority will be given to researchers that skillfully combine optogenetic tools to target specific cell types using innovative technologies such as mesoscale multi-photon imaging and multi-electrode recordings in behaving animals, including but not restricted to non-human primates. The successful candidate should favor the development and translation of novel technologies in neuroscience, such as viral or gene targeting of different cell types and their application in various animal models through collaborations. Expertise in computational, machine learning approaches and artificial intelligence (AI) to perform innovative analyses of large neural data sets is also an asset.

The Department of neurosciences was created to bring together teams that excel in the field of neuroscience and work both on the Université de Montréal campus and in research centres off campus, mainly from the [CHUM](#), [CHU Sainte-Justine](#). An hybrid department (fundamental and clinical sciences), it is composed of 142 experts in fundamental and clinical neuroscience (neurology and neuropsychiatry) who are engaged in various training and research programs. It offers integrated teaching at the three levels (bachelor's, master's and doctorate) in neuroscience and medical education at the doctoral (MD) and postdoctoral (residency) levels in neurology. The Department of neurosciences ensures the development of care, teaching and neuroscience research at the Faculty of Medicine for a better understanding of the properties and functions of the nervous system in humans, both normal and pathological, through the study of human or animal models in order to improve care for patients and, ultimately, the population.

Please follow the link to learn more about the [Department of neurosciences](#).

The selected candidate will have the opportunity to contribute to the excellence of the Department of neurosciences and the faculty of Medicine

...through teaching and research activities. He or she will also ensure the visibility of your discipline in addition to actively participate in the operation of a renowned institution. As such, he or she will:

- > Develop innovative research platforms in neuroscience and take advantage of cutting-edge infrastructure to understand the neurobiological basis of behavior, particularly motor control, learning and memory;
- > Undertake a leadership role in the community, but also with talent in the field, both within and outside Canada;
- > Help bridge the strong expertise in cellular and system neuroscience on campus. As such, he or she should foster collaborations between neuroscientists, engineers interested in developing new biomedical technologies ([TransMedTech](#) and [Polytechnique](#)) and with a strong community of data scientists and AI experts ([IVADO](#) and [Mila](#));
- > Play a leadership role in existing groups and networks such as [CIRCA](#) (Centre Interdisciplinaire de Recherche sur le Cerveau et l'Apprentissage de l'UdeM), whose goal is to facilitate interdisciplinary research on learning on UdeM campus and [UNIQUE](#) (Union Neurosciences et Intelligence artificielle QUÉbec), a strategic cluster bridging neuroscience and AI;
- > Teach at the undergraduate and graduate levels, supervise graduate students, and contribute to the activities of the institution;
- > By joining the Faculty of Medicine in the Department of neurosciences, the candidate will contribute to our mission of leadership in education and biomedical research, through an innovative and interdisciplinary research program aimed at overcoming society's important neurodevelopmental and neurological challenges.

To succeed in this role, you'll need to:

- > Hold a Ph.D. or an equivalent diploma;
- > Demonstrate innovative research expertise in molecular, synaptic, cellular and system neuroscience;
- > Have applied cutting-edge transgenic and optogenetic systems, large scale neural analysis of specific cell types, and imaging of cell activity in behaving animals;
- > Have demonstrated excellent research productivity;
- > Have an excellent track record in teaching and supervision of trainees
- > Have an adequate knowledge of the French written and spoken language **or** a strong commitment to mastering the proficiency level required, in accordance to [Université de Montréal's Language Policy](#). An institutional learning support program is offered to all professors wishing to learn French or improve their communication skills.

How to submit your application

Applications should include :

- > A cover letter; application must include in the cover letter one of the following statements: "I am a citizen/ permanent resident of Canada." Or "I am not a citizen or permanent resident of Canada.";
- > A research statement (approximately three pages);
- > Your curriculum vitae;
- > Up to five recent publications or research papers.
- > The name and contact information of three references that are familiar with your work and impact

Your application must be submitted by email **no later than April 1th, 2023** to nancy.crete@umontreal.ca and be addressed to :

Dr Alexandre Prat, PhD
Chairman, Department of neurosciences
 Université de Montréal
 P.O. Box 6128, Station Centre-ville
 Montréal (Québec), CANADA, H3C 3J7
 Site Web : [Department of Neurosciences](#)

Additional information about the position

Reference number	MED 02-23/08
Application deadline	Until April 10, 2023 inclusively
Salary	Université de Montréal offers competitive salaries and a full range of benefits
Starting date	As of January 1 st , 2024, but flexible

DIVERSITY AND INCLUSION

Université de Montréal is strongly committed to fostering [diversity and inclusion](#). Through its *Equal Access Employment Program (EAEP)*, UdeM invites applications from women, Aboriginal people, visible and ethnic minorities, as well as persons with disabilities. We will –confidentially – adapt our recruitment mechanisms to the specific needs of people with disabilities who request it.

UdeM embraces a broad and inclusive definition of diversity that goes beyond applicable laws, and therefore encourages all qualified individuals to apply, regardless of their characteristics. However, in accordance with Canadian immigration requirements, priority will be given to Canadians and permanent residents.

In order to measure the impact of its equity, diversity and inclusion actions, UdeM is collecting data on applicants identifying themselves with one of the groups targeted by the Equal Employment Opportunity Act, namely women, Aboriginal people, visible minorities, ethnic minorities and people with limitations. To this end, we thank you for completing [this self-identification questionnaire](#). The information you provide through this form is **strictly confidential** and will be shared only with those responsible for the UdeM EAEP. If you wish, you may also indicate that you belong to one of the targeted groups in your cover letter, which will be reviewed by the selection committee and the assembly of peers.

Université de Montréal's application process allows all members of the Professor's Assembly to review the application files submitted. If you wish to keep your application confidential until the shortlist is established, please mention it in your application.

