



MSc, PhD, and post-doctoral positions in biomechanics

We are currently recruiting graduate students (MSc, PhD) and post-doctoral fellows for positions starting from fall 2022 within the Laboratory of Simulation and Movement Modelling (S2M) in the School of Kinesiology and Exercise Science in the Faculty of Medicine at Université de Montréal. The S2M brings together 3 professors as well as approximately 20 students in kinesiology, mechanical and biomedical engineering, physics, and computer science from across Canada and the world.

The current available positions are in the area of biomechanics under the supervision of Philippe C. Dixon. Dr. Dixon's research focuses on the analysis of human movements, such as walking and running, using motion capture systems and inertial measurement units in order to improve the health and mobility of populations with musculoskeletal disorders. He is also very active in the application of machine learning techniques for the detection and prediction of events and physiological states as well as in the development of open-source software tools for biomechanical analyses (see biomechZoo.com).

We welcome applications from individuals with backgrounds in human movement science, engineering, computer science, or other related disciplines. Candidates should possess experience in gait analysis using motion capture or inertial measurement units and have a working knowledge of programming in Matlab or Python. Knowledge of machine learning is an asset. Publications in peer-reviewed journals are required at the PhD (≥ 1) and Post-Doc (≥ 3) levels. Post-doctoral fellows should have an established expertise in one of the aforementioned areas of study and a strong history of receiving research funding.

Students can apply for M.Sc. or PhD in kinesiology, biomedical engineering, or computer science at the Université de Montréal, depending on their profile, background, and interests.

The S2M laboratory supports the Université de Montréal's policy on equity for recruitment, particularly for women, people with disabilities, and racialized individuals.

If you are interested in applying for this position, please complete the google survey at the following link : https://docs.google.com/forms/d/e/1FAIpQLSeBraaZIG5luOp8PiZ5n7bCC71LR-3INjNy-5yfA9z_dpmgAQ/viewform?usp=sf_link

Only short-listed candidates will be contacted.