



Faculty of Medicine



Position Title: Postdoctoral Fellow / Senior Data Scientist / Biostatistician
Neuroimmunology & Multiple Sclerosis Research
Memorial University of Newfoundland – Faculty of Medicine

Location: St. John's, Newfoundland and Labrador, Canada (*remote or hybrid work arrangements may be considered*)

Duration: 1 year (renewable, contingent on performance and funding)

Start Date: Spring-Summer 2026

The Translational Neuroimmunology Laboratory invites applications for a highly motivated to join a multidisciplinary research program led by Dr. Craig Moore

(<https://www.mun.ca/medicine/faculty-and-staff-resources/faculty-a-z/moore-craig-s.php>).

This position is supported through a major award from Branch Out Neurological Foundation to advance innovative research on **exercise as a disease-modifying therapy in multiple sclerosis (MS)**. This role represents a unique opportunity to work with one of Canada's most deeply phenotyped MS cohorts and biorepositories (HITMS), integrating longitudinal clinical, behavioural, fitness, and high-dimensional biomarker datasets to address fundamental questions in disease progression and therapeutic response.

The successful candidate will play a central role in an effort to:

- Extract and analyze molecular biomarker data from >1000 longitudinal patient samples
- Integrate biomarker profiles with clinical, cognitive, and fitness measures
- Identify biological signatures associated with disease progression and response to exercise
- Investigate why some individuals show improved trajectories in MS

This work is embedded within the **Health Research Innovation Team in MS (HITMS)**, a decade-long longitudinal cohort with extensive biospecimens and deep phenotyping.

Key Responsibilities

- Lead and implement advanced statistical and computational analyses of datasets
- Integrate omics-scale biomarker data (e.g., cytokines, proteins, circulating factors) with longitudinal clinical outcomes
- Develop and apply models for:
 - Longitudinal and repeated-measures data
 - Disease progression and subgroup stratification
 - Predictive modeling and biomarker discovery
- Perform data harmonization across platforms (e.g., Luminex, Ella systems)

- Contribute to study design, analysis plans, and interpretation of results
 - Collaborate closely with clinicians, neuroscientists, and trainees
 - Lead and contribute to high-impact publications and grant outputs
 - Support training of graduate and undergraduate trainees
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Required Qualifications

- PhD in Biostatistics, Bioinformatics, Data Science, Computational Biology, or a related field
 - Strong expertise in statistical and machine learning modeling of longitudinal data
 - Experience with high-dimensional biological or clinical datasets
 - Proficiency in R, Python, or similar analytical platforms
 - Demonstrated track record of peer-reviewed publications
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Preferred Qualifications

- Experience in **neuroimmunology, MS, or chronic disease cohorts**
 - Familiarity with biomarker platforms (e.g., multiplex assays, proteomics)
 - Experience working with large longitudinal cohort datasets
 - Strong collaborative and communication skills
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Compensation

Salary will be commensurate with experience and aligned with funding guidelines (e.g., postdoctoral or senior research associate scales; approximately \$70,000+ annually as per grant allocation).

How to Apply

Please submit to craig.moore@mun.ca

- Curriculum vitae
- Cover letter outlining research experience and interests
- Names and contact information for three references

Applications will be reviewed on a rolling basis until the position is filled.