Quantitative Modeling (Predictive Neuroscience) on Brain Health in Aging (Assistant/Associate Professor)
Faculty of Health and Baycrest Academy for Research and Education

The Faculty of Health at York University invites highly qualified applicants for an Assistant or Associate Professor position in **Quantitative Modeling (Predictive Neuroscience) on Brain Health in Aging**. This is a tenure-track appointment to the Professorial Stream to commence July 1, 2025. The candidate will identify a home school/department to be appointed (Global Health, Health Policy & Management, Kinesiology & Health Science, Nursing, or Psychology) or a joint appointment across two units.

This is a Research Enhanced joint position with Connected Minds at York University and the Ben & Hilda Katz Interprofessional Research Program in Geriatric and Dementia Care ("Katz Program") in the Rotman Research Institute (RRI) at the Baycrest Academy for Research and Education (BARE).

The successful candidate will lead a research program that includes at least one of the following areas along the dementia pathway: prevention, diagnostics, treatment, or care. The program may also involve modeling clinical outcomes, intervention effects on brain health, or healthcare system needs for aging populations. This research aligns with the priorities of the Faculty of Health and Connected Minds at York University, and the Rotman Research Institute at Baycrest.

This is a research-enhanced faculty position partially funded by the Connected Minds program, funded in part by the Canada First Research Excellence Fund. The successful candidate will be eligible for enhanced start-up funds, an annual research grant, and a reduced teaching load. In addition, the successful candidate will engage with, and benefit from, the Connected Minds program, which focuses on scholarship toward three main research goals: 1) to understand how the interplay of humans and intelligent technologies produces unexpected, emergent properties at the community/whole society levels, 2) predict how new technologies will disrupt the techno-social collective and 3) use these predictions to drive new research and technology development. The Connected Minds program is supported by a total of $318 million in funding over seven years (2023 – 2030).

The position is also partially funded by BARE, and the successful candidate will engage with, and benefit from Baycrest's RRI. The RRI is a leading institute in cognitive neuroscience, neurodegenerative aging, and brain health innovation. Baycrest's research encompasses a wide range of domains in the area of predictive neuroscience and precision aging, including the prevention, detection and diagnosis of brain health disorders in older adults, identifying and mitigating environmental triggers of dementia's behavioral symptoms, gaming and simulation for gerontological activities, and applying artificial intelligence in screening cognitive impairments, and developing new approaches for treatment and care of people living with dementia and related neurocognitive disorders.

Candidate Qualifications:

Degree: PhD in neuroscience **or** health-related field required. Post-doctoral experience is preferred.
Scholarship:

- A coherent and well-articulated program of research and specialization in modeling or quantitative research in human neurocognitive aging through the lens of equity, diversity, and inclusion. The research program should include at least one of the following along the dementia pathway: (1) prevention, (2) early detection/diagnostics, (3) treatment/therapeutics, or (4) care of individuals living with dementia and/or their care partners.
- A record or evident promise of generating innovative, substantive, rigorous, and as appropriate, externally funded research and/or research creations.
- A record of evident promise of making influential contributions and demonstrating excellence in the field (e.g., solid publication record in refereed journals, promise of or demonstrated ability to attract external funding)
- Expertise in structural and/or functional neuroimaging, neuromodulation, health data analytics, bioinformatics, or AI/machine learning will be considered an asset.

Teaching:

- A record or evident promise of excellence in teaching and dedication to students (e.g. teaching accomplishments, pedagogical innovations using technology-enhanced learning, and/or experiential education).
- Suitability for prompt appointment to the Faculty of Graduate Studies, given that the position will involve graduate teaching and supervision.

Hiring Policies:

- Salary will be commensurate with qualifications and experience.
- All York University positions are subject to budgetary approval.
- York is an Affirmative Action (AA) employer and strongly values diversity, including gender and sexual diversity, in its community. Details of the AA Program, which applies to women, members of racialized groups, Indigenous peoples, persons with disabilities and those who identify as 2SLGBTQ+, can be found here or by contacting Aqsa Ahmed, EDI Program Manager (aqsa517@yorku.ca).
- York and Baycrest welcome and employ scholars from all over the world. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.
- York has a policy on Accommodation in Employment for Persons with Disabilities and is committed to working towards a barrier-free workplace and expanding the accessibility of the workplace to persons with disabilities. Applicants who require accommodation are invited to contact Dr. Denise Henriques, Search Committee AA Representative, deniseh@yorku.ca.
- Baycrest's Accessibility Policy confirms its commitment to providing accessible employment practices that are in compliance with the *Accessibility for Ontarians with Disabilities Act,* and that candidates who require accommodation for a Disability during any stage of the recruitment process should inform the recruitment specialist who contacts them for the interview.

Application Process:

- Due date for completed applications: **April 21, 2025**
- Required materials: 1) cover letter which identifies a school/department to be appointed; 2) current CV; 3) 2–5 page research statement (including plans for integrating Baycrest and

Connected Minds interests); 4) 1–2 page teaching statement (both statements should include equity, diversity, and inclusion considerations); 5) three relevant reprints of publications; and 6) names and contact information of three references.
- Provide required information regarding your Canadian work status and optional self-identification for Affirmative Action purposes as part of the online application.
- Direct questions about the position to Gary Myers, Administrative Assistant to the Chair of the School of Kinesiology and Health Science at garym@yorku.ca.
- Submit materials using the following link**: https://www.surveymonkey.com/r/HH_Baycrest**

Learn More About York:

- York University generates and shares knowledge through our research, teaching and engagement with communities around the world. The 2023-2028 Strategic Research Plan showcases the depth, breadth and ambition of research at York.
- York's commitments to social justice are laid out in our Decolonizing, Equity, Diversity and Inclusion Strategy, the Framework & Action Plan on Black Inclusion and the Indigenous Framework for York University.
- Follow the activities and accomplishments of York's faculty, students and staff on YFile.