



Canada Research Chair (Tier 2) (NSERC) in Health Analytics and Personalized Care (Assistant/Associate Professor)

School of Health Policy & Management, Faculty of Health

Date Posted: January 30, 2025

Application Deadline: March 21, 2025

The School of Health Policy and Management (SHPM), Faculty of Health, York University invites highly qualified applicants for an NSERC Tier 2 Canada Research Chair (CRC) at the rank of Assistant or Associate Professor position in Health Analytics and Personalized Care. This is a tenure-track position to the Professorial Stream to commence **July 1, 2025**, or as soon as possible thereafter.

This position, with its focus on **clinical decision-making for personalized healthcare and enabling technologies for aging populations, primary care, and the development of healthcare systems**, offers an excellent opportunity to conduct research and train the next generation of leaders who will address healthcare needs at a personal level. The successful candidate will be expected to teach undergraduate/graduate courses and to provide creative educational leadership in enhancing teaching and learning through curricular and pedagogical innovation in the classroom and at the program level.

The Canada Research Chairs (CRC) program seeks to attract outstanding researchers for careers at Canadian universities. Tier 2 Chairs are intended for exceptional emerging scholars (i.e., within 10 years of attaining their highest degree at the time of nomination, with consideration for career breaks) who have the acknowledged potential to lead their field of research. Appointment to a Tier 2 Chair is for five years, is renewable once, and comes with enhanced research support from the program. Applicants who are more than 10 years from their highest degree (and where career breaks exist, including maternity leave, extended sick leave, clinical training, etc.) may have their eligibility for a Tier 2 Canada Research Chair assessed through the program's [Tier 2 justification process](#). Please see the [CRC website](#) for further eligibility details.

Recognizing the underrepresentation of women and gender minorities among CRCs, this position is open only to qualified researchers who indicate on the Affirmative Action self-identification form (see below) that they identify as women or gender non-conforming (e.g., genderfluid, nonbinary, Two-Spirit, trans man, trans woman). The appointment is part of the University's Affirmative Action program, which is based on the special program provisions of the Ontario Human Rights Code.

York acknowledges the potential impact of various life circumstances (e.g., illness, disability, caregiving, family commitments) on a candidate's record of research and other achievements. Candidates are encouraged to describe such circumstances and their impact in their application. This information will be taken into careful consideration during the assessment process.

The School of Health Policy & Management

This position will be housed at the School of Health Policy & Management (SHPM), Faculty of Health, York University. The SHPM has researchers who are leaders in areas like healthcare professionals' mental health, social determinants of health, equity and global health, care of older adults and their family/friend caregivers, AR/VR applications for people with dementia, and machine learning models to improve healthcare services. The school is also preparing to launch a Professional Master's program in AI and Health.

Candidate Qualifications:¹

- **Degree:** PhD or equivalent doctoral degree with a substantial record of professional experience in a relevant field, such as health informatics, computer science, computational science, software engineering, information systems, biomedical engineering, or related areas within technology and engineering, is required.
- **Scholarship:**
 - A coherent and well-articulated program of research and specialization that focuses on clinical decision-making for personalized healthcare and enables technologies for aging populations, primary care, and the development of healthcare systems. This program of research must align with one or more areas relevant and eligible for an NSERC Tier 2 CRC (see [Eligibility of NSERC](#) subject matter and eligibility of applications related to health), including but are not limited to:
 - Developing cutting-edge diagnostic devices, biomarkers, and decision support technologies that utilize large datasets (e.g., genomics, physiology) to provide personalized healthcare recommendations;
 - Investigating human movement, performance, and biomechanics in healthy individuals to optimize personalized care strategies and improve health outcomes;
 - Advancing the development of wearable sensors and devices that continuously monitor physiological parameters (e.g., heart rate, blood pressure), offering real-time, personalized health data for better decision-making;
 - Harnessing advanced expert systems (e.g., knowledge-based tools, AI-driven solutions) to enhance personalized care for aging populations, primary care, and mental health;
 - Designing user-friendly, personalized interfaces (e.g., interactive dashboards, real-time monitoring platforms) to support integrated healthcare systems and streamline clinical workflows;
 - Creating inclusive healthcare solutions (e.g., accessible telemedicine platforms, adaptive wearables) to effectively accommodate individuals with disabilities and address diverse accessibility needs; and
 - Leveraging cutting-edge AI technologies (e.g., machine learning-based analytics, predictive modeling) to foster interprofessional collaboration and improve overall healthcare outcomes.
 - A record or evident promise of generating innovative, substantive, rigorous, and as appropriate, externally funded research and/or research creation.
 - A record or evident promise of making influential contributions and demonstrating excellence in the field (e.g., a strong record of peer-reviewed publications in leading venues such as The Lancet Digital Health, IEEE Journal of Biomedical and Health Informatics, or journals of similar calibre; successful in securing external funding (including tri-council funding) and/or awards; and).
 - The successful candidate is expected to collaborate with researchers from other schools/departments including Nursing, Kinesiology, Psychology, and Global Health.
- **Teaching:**
 - A record or evident promise of excellence in teaching and dedication to students (e.g., capacity to bring a theoretical and practical orientation to teaching, learning and program design, and evidence of good judgment and a reflective approach to innovation in teaching; experience in graduate supervision and developing academic and career pathways for students).
 - Suitability for prompt appointment to the Faculty of Graduate Studies, given that the position will involve graduate teaching and supervision.
 - Experience with curriculum development and universal design approaches to teaching and assessment is preferred.
- **Additional:** Having successfully collaborated with healthcare practice settings, health systems, decision-makers, etc., is an asset.
 - A record or evident promise of making valuable contributions through administrative and committee service.

¹ Determined by the hiring unit and York University, not the CRC program

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 Christal Chapman, EDI Program Manager (chapman7@yorku.ca).
- York welcomes and employs 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 Matthias Hoben, Search Committee Chair (mhoben@yorku.ca).

Application Process

- Due date for completed applications: **March 21, 2025**
- Required materials: 1) Cover letter, describing how the candidate meets the selection criteria (including NSERC CRC Tier 2 eligibility), why the appointment is of interest, and what they believe they can bring to the role; 2) complete and comprehensive curriculum vitae; 3) outline of their present research program and its impact; 4) a 5-year research plan outlining the CRC program of research; 5) three of the candidate's most impactful contributions (e.g., peer reviewed publications or developed technologies), and one page describing why these are their most important contributions; 6) Statement of teaching interests/experience and evidence of high-quality teaching, including detailing experiences with and the approach to trainee supervision, and a discussion of how the candidate's teaching experience/profile aligns with the courses offered at SHPM; 7) A brief statement describing current and planned engagements and contributions to advancing equity, diversity, and inclusion in academic, professional, or community contexts; 8) contact information for three references willing to provide a confidential letter of reference. Only short-listed candidates' references will be contacted.
- Provide required information regarding your Canadian work status and optional self-identification for Affirmative Action as part of the online application.
- Direct questions about the position to contact Matthias Hoben (mhoben@yorku.ca), Chair of the Search Committee.
- **Submit materials: at https://www.surveymonkey.com/r/HH_CRC_HAPC**

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](#).

York University acknowledges its presence on the traditional territory of many Indigenous Nations. The area known as Tkaronto has been care taken by the Anishinabek Nation, the Haudenosaunee Confederacy, and the Huron-Wendat. It is now home to many First Nation, Inuit and Métis communities. We acknowledge the current treaty holders, the Mississaugas of the Credit First Nation. This territory is subject of the Dish with One Spoon Wampum Belt Covenant, an agreement to peaceably share and care for the Great Lakes region.