

2020, December 7th

**Postdoctoral position at Toronto Rehab Institute to conduct a mixed-method clinical study to test devices and services provided by Myant (Skiin) in the context of a virtual/remote cardiac rehabilitation program at My Heart Fitness**

**Role:**

We are seeking a highly motivated and versatile PhD with a clinical background (physiotherapist, kinesiologist, nurse, occupational-therapist, ...) to join the research team of [My Heart Fitness](#) (MHF) under the supervision of [Dr David Alter](#), senior scientist at the [Toronto rehabilitation institute-UHN](#).

The successful candidate will be in charge of recruitment, data collection, coordination, and part of the data analysis of a clinical study sponsored by [Myant Inc](#). The study intends to test the performance of the [Skiin](#) devices for the monitoring and guidance of physical activity performed during and between cardiac rehab exercises.

The candidate will have to interact with patients, clinicians, researchers, and the industrial partner. This requires good organizational skills, an overarching view of the technologies and objectives of the team and the company, as well as an attention to details in the preparation and execution of multiple tasks simultaneously.

Of particular importance is the ability to prepare and submit scientific for publication. The candidate will benefit from a study steering committee involving TRI, MHF, and Myant, who will define, with the candidate, the publication strategy for the various aspects of the study (virtual clinic, integration of a new device/service in a program, metrologic properties of the device in a quantitative perspective, attitude towards technology in the population from a qualitative perspective, retrospective and comparative analysis).

To be successful, the candidate must have a strong background in interacting and collecting data with human participants, including real-world patients affected with diverse medical conditions (cardiac rehabilitation experience is a big bonus), a perfect comprehension and respect of the scientific method, knowledge about the different clinical trial methodologies (quantitative, qualitative, and mixed methods), and experience in the redaction of scientific grants, reports, patents, and papers.

Experience with bio-signals acquisition and processing, and/or with low-power wearable systems would be an important asset. Applicants should have a keen eye for solving problems that currently do not have well defined solutions as well as defining appropriate testing methods to test the hypothesis in a way that can identify limitations and problems with the proposed solution.

**Responsibilities:**

- Write, edit, and amend protocol and other study documents.
- Integrate the Research Study in the standard practice of the Virtual Clinic
- Manage the data base of de-identified study information
- Interact with the Research Ethics Board and Principal Investigator to keep up study documentation and manage possible study events.
- Work closely with a variety of people both at MHF and at Myant, and maintain fluid and productive relationship with partner

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**Qualifications:**

- PhD (preferred), or PhD candidate close to PhD graduation
- Clinical experience in physiotherapy, kinesiology, nursing or related fields
- Strong analytical, problem solving, and leadership capabilities
- Ability to contribute and work effectively in a fast-paced, multidisciplinary environment
- Understanding of bio-signal and signal processing techniques would be an important asset
- Experience in mixed-methods research would be an important asset

**Notes:**

- *The study is expected to start around March 2021.*
- *The position may start sometime between January and March 2021.*
- *The position is offered for a minimal duration of 12 months, with opportunities to expand the study for a second year and/or join either MHF or Myant teams after study completion.*
- *The wage and benefits will be defined and administered by the Toronto Rehabilitation Institute.*

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Please send your CV and short letter explaining your interest for the role described to Dr David Alter [david.alter@ices.on.ca](mailto:david.alter@ices.on.ca), and Cc Dr Bastien Moineau [bastien.moineau@myant.ca](mailto:bastien.moineau@myant.ca).