

**Position Identification:**

Position Title: Student mobile app developer

Faculty: Faculty of Health Sciences

Term: 12 months

Funding: Grant funded; part-time (0.2 FTE)

Start date: As soon as possible

**Position Summary:**

“Predicting successful trajectories from childhood to young adulthood” is a collaborative, grant-funded project by the BCCDC, UBC-HELP, and SFU FHS to develop the Youth Development Instrument (YDI), a population-level survey to measure positive youth development and well-being in BC.

This position will explore development of a mobile app for YDI data collection during the study piloting phase. The successful applicant will scope requirements for a mobile app to meet data collection needs, develop a trial version of the app, oversee beta testing of the app with a subset of YDI pilot participants, and conduct subsequent revisions.

**Duties and responsibilities:**

- Develop an iOS and Android-compatible mobile app to collect YDI survey data from participants.
- Conduct user acceptance testing (UAT) with a subset of pilot participants to assess user experience, quality and integrity of results, and scalability.
- Develop bug fixes and make small feature revisions as needed using feedback from UAT testing.
- Produce documentation for maintaining and using the app, as well as for interfacing with the API endpoint to extract data.
- Complete a pre-development scoping analysis to identify app requirements and assess feasibility of project timelines.
- Draft a plan detailing proposed app specifications and wireframes illustrating the front- and back-end user interface.
- Present the app’s planning, development, and testing process at the 10th annual E-Mental Health Conference in spring 2021.
- Write up development and testing process in a manuscript, time permitting.

**Working relationships and supervision:**

This position reports directly to Dr. Hasina Samji, Assistant Professor in the SFU FHS and YDI Principal Investigator, with additional supervision from the YDI research project coordinator. The incumbent will interact with multidisciplinary staff and faculty at HELP-UBC, BCCDC, and SFU, as well as health care professionals in provincial and local health authorities. The successful candidate will be expected to work independently and with considerable latitude within established project parameters. Work is reviewed against task objectives.

**Qualifications:**

The ideal candidate will have the following characteristics:

- Education
  - Current student at SFU. Preference will be given to master's level candidates or a student in the upper years of a bachelor's degree in computing science, software engineering, information technology, or another major with a strong emphasis on software development.
- Knowledge
  - Familiarity with agile methodologies
  - Cross-platform application development
  - UI/UX design principles
- Skills
  - Front end web development (Angular or React frameworks/HTML5/CSS)
  - Server-side languages and database structures (SQL/PHP)
  - Mobile app development languages and tools (Objective-C, Java, Swift, Xcode environment, etc.)

Please provide the names of two references and a cover letter in your application, which should be sent to [hsamji@sfu.ca](mailto:hsamji@sfu.ca).