

Opportunities for Research Placements for 2021-22

**Research-Based Practicum in Health Studies (HLTH 352/3.0)
and
Research-Based Practicum in Kinesiology (KNPE 352/3.0)**

Application Deadline Friday, March 26th, 2021 at 4:30 pm

Please submit applications directly to the relevant researcher(s) and copy Robert Watering at watering@queensu.ca on your e-mailed application(s).

HLTH/KNPE 352 is designed to provide a research-based internship for students in Kinesiology or Health Studies who may be interested in working in the research labs and on research projects of SKHS faculty members. In addition to hands-on work in the research environment, the course will include a seminar series covering research topics and methodologies typically utilized in Health Studies, Kinesiology and Physical Education research. Seminar presentations will include topics from: Physiology of Exercise, Biomechanics and Ergonomics; Epidemiology; Health Promotion; Psychology of Sport, Physical Activity, Disability and Health; and Sociology of Sport, Physical Activity and Health.

Students will be exposed to the research process as it applies to the research area in which the student has chosen to intern. This process may include, but is not limited to data collection and analysis, literature searches, manuscript writing, presentation skills, etc. The other primary goal is to expose students to the wide variety of research ongoing within the School of Kinesiology and Health Studies at Queen's University.

** Please note that HLTH/KNPE 352 is a 3.0 credit unit course, but it spans across both the fall and winter terms.*

Research Summaries of Supervisors Accepting Students for 2021-22 Academic Year

Dr. Jean Côté and Luc Martin (Sport Psychology)

Number of positions: Two to Four

Are you interested in being involved in research exploring the elements of positive youth sport experiences? The sport psychology lab will be accepting up to **four** internship positions for the 2021-22 school year. Research in the sport psychology lab at Queen's focuses primarily on the characteristics of the youth sport environment (e.g., coach-athlete relationships, teammate interactions, coach characteristics) that create favourable conditions for excellence and participation in sport. In addition, current projects also relate to group dynamics principles (e.g., cohesion, subgroups) and coaching behaviours (e.g., transformational leadership) in sport.

Those students accepted for these positions will have opportunities to contribute to several ongoing projects, and will be working with data derived from observations (e.g., coding videos), interviews (e.g., transcription), and questionnaires (e.g., inputting data). Finally, students typically experience the research process within the field of sport psychology, from data collection (e.g., video-recording sport competition, questionnaire distribution) all the way to data analysis and writing.

- Interested students should contact Dr. Luc Martin and Dr. Jean Côté at luc.martin@queensu.ca and jc46@queensu.ca respectively, and attach a cover letter, unofficial transcript, and resume or CV. Please title the e-mail 'KNPE/HLTH 352 Research Internship Application' in the subject line.

Dr. Courtney Szto (Socio-cultural sport studies)

Number of positions: Up to Two

Dr. Szto's research explores factors that contribute to (in)justice in sport and physical activity. She is looking for up to 2 internship students for the 2021-2022 academic year to help with any of the following project areas:

- **Women's Professional Hockey:** Research around the Professional Women's Hockey Players Association (e.g., media analysis, data collection, event statistics etc.)
- **Environmental Sustainability:** Audience reception research based on viewing a short documentary about bike waste (e.g., conduct focus group/interviews with viewers)
- **Racial Equity:** Research around race/racism and Queen's Athletics and Recreation (e.g., collect demographic data, create a survey, interview former athletes).

There is a lot of latitude for these projects; thus, they can be adapted to align with the student's interests and goals. The successful intern(s) can work remotely if required/preferred.

Interested students should send their cover letter, unofficial transcript, a resume/CV, and one writing sample to Dr. Szto (c.szto@queensu.ca) with the title: "KNPE/HLTH 352 Internship Application."

Dr. Brendon Gurd (Muscle Physiology Lab)

Number of positions: Up to four

There are four research internship positions available in the Queen's Muscle Physiology Lab (QMPL) under the supervision of Dr. Brendon Gurd. Interns will be exposed to the research process through participation in study design, data collection and analysis. Current studies in the Gurd lab are examining the optimal intensity of exercise for improving aerobic fitness and the molecular mechanisms determining mitochondrial content.

- All applications should include the following:
 1. A copy of the applicant's CV and transcript
 2. A 1-2-page cover letter that highlights the following:
 - a. experiences relevant to working in the QMPL
 - b. a description of the characteristics and skills you possess that you believe will allow you to succeed as research intern working in the QPML
 - c. a brief discussion of your motivation for pursuing a research position within the QMPL
 - d. the research being conducted within the QPML that you are interested in
 - e. the research methodologies being utilized within the QPML that you would be interested in learning

*Formatting for Cover Letter:

- There are no guidelines regarding page formatting (font, line spacing, etc.) but you should use full sentences and paragraphs.
- While brevity is not required, concision and clarity of thought are highly encouraged.
- Figures and references can be appended on extra pages allowing your total cover letter document to exceed two pages.
- Applicants to the Queen's Muscle Physiology Lab (QMPL) should send their applications directly to Dr. Gurd at gurdb@queensu.ca. Please title the e-mail 'KNPE/HLTH 352 Research Internship Application'.
- Any questions on the application process can be sent directly to Dr. Gurd via email. More information on the research being conducted within the QPML can be found on the lab website at <http://www.skhs.queensu.ca/musclephysio/>.

Dr. Elijah Bisung (Health Promotion)

There are up to two research internship positions in the Center for Environmental Health Equity under the supervision of Dr. Elijah Bisung. In 2021/2022, Dr. Bisung is seeking students to work on projects related to:

1. Water security in low-income countries - Example of tasks include conducting literature reviews and quantitative data analysis.

2. Epidemics and health systems preparedness - Examples of tasks include conducting literature review and data analysis to understand individual perceptions of health systems preparedness and inequalities in "post Ebola" settings.

Interested students should send a cover letter, unofficial transcript, and resume or CV to Dr. Elijah Bisung by e-mail at elijah.bisung@queensu.ca.

Dr. Eun-Young Lee (*In Situ* Physical Activity Research Lab)

See the *In Situ* lab's webpage (www.insituph.ca) for more information.

Number of positions: Up to two

In Situ Lab investigates social and environmental inequalities that have impact on movement behaviour (e.g., physical activity, sedentary behaviour) and population health. On the topics of climate change, intersectionality, movement behaviours and health, interns will work in a dynamic team environment alongside graduate students and researchers around the world, participating in literature reviews and/or various knowledge translation activities (e.g., mini reviews, journal publications, website blog postings, podcasting).

Interested students should contact Dr. Eun-Young Lee (eunyoung.lee@queensu.ca) with a cover letter, unofficial transcript, an example of written work (e.g., a term paper), and a resume/CV. A cover letter should clearly indicate one's interests in one of the research projects outlined above and their relevant experiences. Please title the e-mail "KNPE/HLTH 352 Research Internship Application."

Dr. Jennifer Tomasone (Revved Up Research Group)

Number of positions: Up to three

Dr. Tomasone is a Co-Director of the Revved Up Research Group, which strives to translate research knowledge about physical activity into practical guidelines and programs that foster full and meaningful participation for all Canadians. In 2021/2022, Dr. Tomasone is seeking students to work on projects related to:

1. Developing and evaluating interventions that disseminate and implement the Canadian 24-Hour Movement Guidelines for Adults.
2. Evaluating quality participation in the Revved Up Exercise Program, and how to modify the program to ensure optimal experiences for persons with disabilities.

Interested students should send a cover letter, unofficial transcript and a resume/CV to Dr. Tomasone (tomasone@queensu.ca). Please title the email "KNPE/HLTH352 Research Internship Application".

Dr. Kyra Pyke (Cardiovascular Stress Response Lab)

Number of positions: Up to Three

There are up to **three** internship positions available in the Cardiovascular Stress Response Lab (CVSRL, Dr. Pyke) for the 2021-22 academic year. The CVSRL research focuses on improving our understanding of basic vascular function including responses to exercise training, as well as understanding the impact of psychological stress on the cardiovascular system. The internship position will provide an opportunity to be involved in data collection and analysis. This includes developing skills related to the use of laboratory equipment and software. Participation in regular laboratory meetings will provide additional opportunities to learn about study design, cardiovascular physiology and communication of study findings. The position requires a commitment of 80h in the lab over the course of the term (~ 4hrs/week most weeks of the term).

- Interested students should send a cover letter, an unofficial transcript, and their resume to Dr. Pyke at pykek@queensu.ca. Please title the e-mail 'KNPE/HLTH 352 Research Internship Application'.

Dr. Chris McGlory (Molecular Nutrition Lab)

Number of positions: Up to three

There are up to **three** internship positions available in the area of Molecular Nutrition research for the 2021-22 academic year. The studies will involve examining how nutrition and resistance exercise affect the cellular and molecular signals that affect muscle growth in young women.

- Interested students should send a cover letter, an unofficial transcript, and their resume to Dr. McGlory at chris.mcglory@queensu.ca. Please title the e-mail 'KNPE/HLTH 352 Research Internship Application'.

Dr. Gerome Manson (Biomechanics and Motor Control and Development)

Number of positions: Up to three

There are up to **three** internship positions available in the area of Biomechanics research for the 2021-22 academic year. The objective of Dr. Manson's research program is to understand the influence of sensory information on the planning and control of goal-directed actions. In particular, he is interested in the underlying processes that differentiate a movement made toward a target located on the body (i.e. a somatosensory target) versus a movement to an external object. He uses a combination of sensory manipulations, motion tracking, and neuroimaging to answer these questions. Current research themes include the following:

1. The influence of visual information on the mapping of somatosensory target locations

2. The role of brain and spinal neural networks in the rapid control of movements to somatosensory targets
3. Multisensory perception during movements to somatosensory and visual targets.

Interested students should send a cover letter, an unofficial transcript, and their resume to Dr. Manson at gm99@queensu.ca with 'KNPE/HLTH 352 Research Internship Application' in the subject line.