

Postdoctoral Fellowship in Exercise and Environmental Physiology - 2025 and beyond

The Human and Environmental Physiology Research Unit (HEPRU) of the University of Ottawa (Ottawa, Canada's capital), home of Operation Heat Shield Canada, is seeking highly motivated postdoctoral fellows to design and lead projects assessing the environmental and human factors affecting human tolerance and health to heat stress in the broader public and workforce. The successful candidates will work closely with Dr. Glen P. Kenny and an interdisciplinary team of national and international health scientists, public health experts and physicians. This includes working with a cadre of postdoctoral fellows, graduate and undergraduate students from the HEPRU and collaborating partners.

ABOUT US

The HEPRU is conducting cutting-edge research assessing the human physiological tolerance to heat stress – from the cell to the whole-body level. This includes the development of heat-protection strategies that empower the general population and workers to adapt to the impacts of rising temperatures. With access to multiple environmental chambers, the world's only air calorimeter (<https://hepru.ca/tour-our-lab>), and a fully equipped cellular and molecular laboratory, the HEPRU provides a unique training environment to promote scientific discoveries. With new investments (\$5M) in state-of-the-art tools and instruments in 2023, we are excited to expand the scope of our research into new areas of discovery.

DUTIES

The successful candidates will play a lead role in designing and leading projects, which includes supporting projects conducted in collaboration with our long-standing public health partners. This will include presentations of the research at national and international scientific meetings and the development of scientific manuscripts for publication.

AN INCLUSIVE TRAINING ENVIRONMENT FOR THE NEXT GENERATION OF INNOVATIVE THINKERS:

The HEPRU has been a launch pad for future groundbreakers that welcomes all individuals and provides a fair, inclusive, and safe research environment ensuring that all trainees reach their full potential, regardless of their experiences, origins, and background. We encourage individual and team creativity and the exchange of ideas through effective and respectful communication. We encourage collective input from all different points of view at all stages of our research discovery process, including promoting equitable and inclusive participation and decision-making and ensuring an open and transparent research process.

ABOUT YOU

Successful candidates should have a doctoral degree in human environmental physiology, kinesiology, sciences, health sciences or closely related discipline and experience working with various population groups in a physiology research environment. Prior experience with indirect calorimetry, measurement of core and skin temperatures as well as skin blood flow and sweat rate, cardiovascular responses, and biochemistry laboratory techniques (e.g., blood sampling and analysis, ELISA, Western blot) will be a major asset. Strong communication and time management skills and proficiency in applying statistical analyses to answer research questions are required.

Application Procedures

Candidates should submit a letter of intent (2-page maximum) outlining their qualifications and career objectives, an unofficial transcript of academic record, a complete list of publications and awards, and the names of 3 referees to Dr. Glen Kenny at: gkenny@uottawa.ca.

Anticipated Start Date

Positions are now open and recruitment will continue until the positions are filled. Funding support is for 2-years with the possibility of a 1-year extension. International candidates encouraged to apply. Visit our website for additional information: www.hepru.ca

