



COLLEGE of
BIOLOGICAL SCIENCE
DEPARTMENT OF INTEGRATIVE BIOLOGY



GenomeCanada



Ontario Genomics

PhD Opportunity in Fish Stress Genomics

Project summary:

The Bernier Lab at the University of Guelph is looking for a highly motivated PhD candidate to join the Genomic Network for Fish Identification, Stress and Health (GEN-FISH). This large scale, multi-lab, applied research project funded by Genome Canada aims to develop, optimize and field test an integrated genomic “toolkit” to accurately assess and monitor the status of fish for the management of Canada’s freshwater fish resources on a broad geographic and taxonomic scale.

Position summary:

The successful candidate will be an integral member of a team involved in developing, optimizing, testing, and validating a high throughput stress-response transcription profile chip (STP-Chip). Specifically, validation experiments performed at the Alma Aquaculture Research Station will be designed to confirm the relative transcription responsiveness of the STP-Chip under various species x stressor interactions and integrated with stress biomarker profiling. Validation experiments will use relevant mixed environmental stressors and target several model fish species identified as important for species at risk, fisheries, and aquaculture.

How to apply:

Anyone wishing to apply should send their CV, unofficial transcript, names and contact information of 2 references, and a letter of interest to Dr. Nick Bernier. Interested candidates should have a strong background in animal physiology and preferably research experience in molecular biology. The minimum stipend for a PhD student in the Dept. of Integrative Biology is \$25,259 per year for 4 years.

Start date:

May 2020, but this date is flexible and the position will remain open until filled.

Contact:

Nick Bernier: nbernier@uoguelph.ca