



COLLEGE of
BIOLOGICAL SCIENCE
DEPARTMENT OF INTEGRATIVE BIOLOGY



GEN-FISH:
Genomic Network for Fish
Identification, Stress and Health

MSc & PhD Opportunities in Fish Stress Genomics

Project summary:

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

Position summary:

As a member of GEN-FISH (www.gen-fish.ca), you will be involved in developing, testing, and validating a high throughput universal gene expression panel for fish health. Specifically, validation experiments performed at the Alma Aquaculture Research Station will assess the responsiveness of the gene expression panel using multiple species x stressor interactions. Parallel evaluation of standard and novel stress biomarkers will complement the gene expression profiling results and provide an integrated molecular to organismal view of fish health.

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 interest in stress physiology and preferably research experience in molecular biology. Further information on the graduate program and stipends for MSc & PhD students in the Dept. of Integrative Biology can be found at https://www.uoguelph.ca/ib/grad_program_overview.

Start date:

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

Contact:

Nick Bernier: nbernier@uoguelph.ca