



Master's Opportunity in Risk Assessment Modelling

Description

Markus Brinkmann with SENS is seeking an MES candidate with interest in toxicokinetic modelling, who has a solid background in the biology of fishes, aquatic toxicology and/or environmental chemistry. The student will be part of a team embedded in the Global Water Futures Program that will develop and deliver computational risk assessment models to help finding solutions to water threats in an era of unprecedented global change.

One of the important questions in this context is how global change will affect water quality in the cold regions and how this will impact environmental and ultimately human health, e.g. through consumption of contaminated fish. Environmental factors control the uptake of environmental chemicals into fish on many levels, and understanding these interactions is of vital importance to accurate and protective risk assessments. The candidate will apply a combination of laboratory experiments and modelling techniques to gain a deeper understanding of the underlying physical, chemical and biological processes and mechanisms.

Qualifications

- Undergraduate four-year Honours degree, or equivalent, in a related field of study from a recognized college or university
- Familiarity with exploratory data analysis and statistical methods
- Knowledge of computer programming and computational models
- Successful application to the College of Graduate Studies and Research
- **Written support of a faculty supervisor**

In addition, the candidate should have

- Ability to work in a collaborative manner with team members
- Strong oral and written communication skills

Funding

A two-year scholarship is available for a qualified individual through Dr. Brinkmann's New Faculty Student Support funding (GPA of at least 80% required).

How to Apply

Prior to applying, please contact Dr. Markus Brinkmann. Please quote the title of the position in your email subject. Once permission is received from him to proceed, please begin the admissions processed outlined on grad.usask.ca.