

RESEARCH OPPORTUNITIES

Ph.D. & M.Sc. - Ecohydrology & Freshwater Fishes in Alberta

Enthusiastic, team oriented, and self-motivated students are encouraged to apply for a Ph.D. and MSc position to work on characterizing the relationship between stream hydrology and freshwater fishes in Alberta.

This project is a multi-disciplinary collaboration between the University of Alberta, Fisheries and Oceans Canada (DFO), Alberta Environment and Sustainable Resource Development (AESRD) and industry partners. Main project goals include: i) identifying broad scale patterns of stream hydrology, ii) assimilating fish data to determine linkages between stream hydrology and freshwater fish community structure and function, and iii) develop field based studies to determine causative relationships between age and growth and other life history characteristics. These research projects are fully funded and will provide key insights into the role of hydrologic alteration in describing freshwater fish community structure and function in Alberta, an area undergoing enormous anthropogenic stressors.

Candidates will be under the supervision of Dr. Mark Poesch but will interact regularly with scientists and team members in industry, provincial (e.g. Drs. Andy Paul, Caroline Bampfylde) and federal (Dr. Eva Enders) governments.

Ph.D. candidates must have a graduate degree in Biology, Ecology, Zoology, Evolutionary Biology, or a related field. Candidate must also have with high overall GPA (especially in related courses). Experience with hydrologic modeling, freshwater fish ecology, database, and programming skills are considered an asset. Candidates should clearly articulate how this research will build on your existing experience, specific skills and date of availability. Candidates interested in this position should send an email to Dr. Mark Poesch (poesch <Poesch(at)ualberta.ca>(at)<poesch(at)ualberta.ca> ualberta.ca <Poesch@ualberta.ca>) with cover letter identifying research interests, CV, transcripts (unofficial accepted), writing sample and a list of three references. Online applications are also accepted at www.markpoesch.com/opportunities.php.

Please note review of applications will commence on September 9, 2013 and the competition will remain open until the position is filled. Ideal start date is January 1, 2014, but other arrangements can be made.

The University of Alberta is consistently rated as one of the top 5 universities in Canada, and one of the top 100 universities worldwide. Located in Alberta's capital city, Edmonton (population of 1.2 million people), the University of Alberta provides a dynamic mixture of a large research intensive university, urban culture and recreation. More than 39,000 students from across Canada and 144 other countries participate in nearly 400 programs and 18 faculties.

Contact Information:

Dr. Mark Poesch
Assistant Professor, Conservation Ecology

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Website: www.markpoesch.com

Post-Doctoral Position (2 yrs.) - Impacts of resource extraction on aquatic species

A two year postdoctoral fellowship is available in Conservation Biology at the University of Alberta to quantify biological significance of resource extraction activities in northern Alberta. Oil sands reserves in Alberta represent the second largest oil reserve in the world. Intense resource extraction has led to concern regarding water resources and aquatic species in particular. The post-doctoral fellow will join a large research team to help assess the impacts of resource extraction such resources, including environmental geochemists, toxicologists and aquatic ecologists from University of Alberta, University of Windsor, and University of Calgary.

This research will provide important context for current debates regarding resource extraction, and is co-sponsored by industrial partners.

Candidate must have a Ph.D. at the time of commencing the position. Experience with otolith microchemistry and laser ablation ICP-MS are considered an asset. Candidates interested in this position should send an email to Dr. Mark Poesch (poesch(at)ualberta.ca) with cover letter clearly articulating how this research builds on their experience, specific skills and date of availability. Applications are also accepted online at www.markpoesch.com/oppurtunities.php.

Please note review of applicants will not commence until September 9, 2013. This competition will remain open until a suitable candidate is found. Start date is negotiable but ideal start date is fall 2013 or winter 2014. The candidate will receive a salary of \$45,000 per year plus benefits.

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