

Postdoc position – redfish genomics

Newfoundland, Canada



“Uniqueness, significance and occurrence of Bonne Bay Acadian redfish”

The postdoctoral fellowship (PDF) is at Memorial University, in St. John’s, Newfoundland, Canada. It will be based in the [Biology Department](#) in the new [Core Sciences Facility](#). It is co-supervised by [Dr. Craig Purchase](#) (Professor of Biology: evolutionary ecology of fishes) and [Dr. Ian Bradbury](#) of Fisheries & Oceans Canada (Research Scientist: population genomics), and will have close interactions with the Atlantic Healthy Oceans Initiative ([AHOI](#)). Field work will be based at Memorial University’s [Bonne Bay Marine Station](#), and be conducted in the Bonne Bay fjord (in western Newfoundland), which is surrounded by [Gros Morne National Park of Canada](#), a UNESCO World Heritage Site.

Project details: The Acadian redfish (*Sebastes fasciatus*) of the Bonne Bay fjord were listed in 2010 as a unique designatable unit by the Committee on the Status of Endangered Wildlife in Canada. However, virtually nothing is known about them, and the conclusion is based on one sample of fish from 2002. Through field work collection of new samples and whole genome sequencing, we seek to 1) confirm the discreteness of this population, 2) evaluate its evolutionary significance, and 3) determine the effective population size. The distribution of redfish with this fjord as well as the biotic community within which this population lives will be 4) evaluated through eDNA based meta-barcoding.

The project is funded through the Canada Nature Fund for Aquatic Species at Risk, by Fisheries & Oceans Canada. It is part of a larger grant to AHOI titled “Evaluating and mitigating fishing threats on aquatic species at risk in focus areas throughout western Newfoundland”.

Preferred PDF start date is September 2024. Survey work will begin earlier by other team members. The position is fully funded for up to 19 months at ~ \$55,000 - \$60,000 per year + benefits.

Qualifications: A PhD in a biological discipline and molecular experience is required. Previous experiences conducting field work or working with fish would be assets.

Interested applicants should email a detailed cover letter, CV, unofficial copy of transcripts, and detailed contact information for 3 references.

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Review of applications will begin February 26/24 and continue until the position is filled.

