



We are seeking two highly qualified candidates for post doctoral fellowships to work on a large collaborative project focused on underwater noise disturbance to bowhead whales (*Balaena mysticetus*) in the Canadian Arctic. The candidates would work closely with Dr. Stephen Insley and Dr. William Halliday with Wildlife Conservation Society (WCS) Canada (www.arcticnoise.ca) and Dr. Francis Juanes at the University of Victoria (www.juaneslab.weebly.com), and would be based in the Department of Biology at the University of Victoria in Victoria, British Columbia, Canada. These fellowships will focus on three main tasks: 1) bioacoustic analyses of large passive acoustic monitoring datasets to examine spatial and temporal trends in the presence of bowhead whales and other marine animals, as well as documenting underwater noise from ships; 2) examining the reaction of bowhead whales to ships and underwater noise from ships using satellite telemetry data and possibly acoustic tags; 3) examining the current noise exposure to bowhead whales by combining acoustic propagation modeling with ship tracking data, and then examining mitigation strategies for reducing noise exposure to bowhead whales. The exact tasks assigned to each post doc will depend on the pool of applicants.

The first position will start in September 2019 for a fully funded fellowship funded through WCS Canada. The second fellowship will start in June 2020, and will be funded through a Mitacs Elevate Post Doctoral Fellowship (<https://www.mitacs.ca/en/programs/elevate>), with Dr. Juanes at the University of Victoria as the academic supervisor and WCS Canada as the partner organization. Both positions will come with health benefits.

The successful candidates must have a strong background in some combination of the following essential skills: bioacoustic analyses of passive acoustic monitoring data; acoustic propagation modeling; and spatial analyses of animal movement data. All candidates should have a strong background in statistical analyses of large datasets. The majority of time will be spent analyzing data, but may also include 2-4 weeks of field work per year in the Canadian Arctic to retrieve and deploy acoustic recorders or deploy acoustic tags on bowhead whales. The following experience will also be considered an asset: working in remote locations; working out of a small boat; working with or communicating research to Indigenous communities. The successful candidate must hold a PhD by the start date of this fellowship, and should have a strong record of scholarly publications. Interested candidates should send a cover letter, CV, and names and email addresses of two references to Dr. William Halliday (whalliday@wcs.org). This application will remain open until the right candidate is found for both positions. Only applicants who have been selected for an interview will be contacted.

Required Qualifications for both positions

- PhD in biology, oceanography, or a related field with a strong computational/analytical background
- Some combination of the following skills:
 - bioacoustic analyses of passive acoustic monitoring data
 - acoustic propagation modeling
 - spatial analyses of animal movement data
- Statistical analyses of large datasets
- Excellent oral and written communication skills



- Strong record of scholarly publications

Key Information for WCS Canada Fellowship

- Duration: 2.5 years (second year contingent on satisfactory performance in first year)
- Salary: \$55,000/year plus health benefits
- Location: Department of Biology, University of Victoria, Victoria, BC, Canada
- Application Closing Date: On going
- Anticipated Starting Date: 1 September 2019

Key Information for Mitacs Elevate Fellowship

- Duration: 2 years (second year contingent on satisfactory performance in first year)
- Salary: \$55,000/year plus health benefits and \$5,000/year research stipend
- Location: Department of Biology, University of Victoria, Victoria, BC, Canada
- Application Closing Date: On going, but Mitacs application will be due in winter 2020.
- Anticipated Starting Date: 1 June 2020