



## Postdoctoral Fellowship in Wetland Carbon Dynamics



The Micrometeorology research group in the Department of Geography at the University of British Columbia (<https://blogs.ubc.ca/saraknox/>), in partnership with Ducks Unlimited Canada, is seeking a Postdoctoral Fellow (PDF) for a project focused on the role of Canada's tidal and prairie wetlands in climate change mitigation and adaptation.

**Project description:** With growing interest in wetland management and restoration as a natural climate solution, improved estimates of wetland carbon sequestration and greenhouse (GHG) fluxes across Canadian wetland types are strongly needed. The objective of this partnership is to contribute to an improved understanding of the response of wetland carbon dynamics to management and climate change in key wetland types across Canada. In this project, we focus on wetlands in the Prairie Pothole Region of western Canada and tidal wetlands along the Pacific Coast since these ecosystems are understudied relative to other wetland types in Canada, yet they play important roles in carbon cycling and climate regulation. The goal of this collaborative research project is to contribute to an improved understanding of the response of wetland carbon dynamics to management and climate change in key wetland types across Canada, and help inform regional and national climate mitigation strategies and related policy development.

**Postdoctoral Position:** The successful candidate will be based in Vancouver, Canada and supervised by Dr. Sara Knox at The University of British Columbia. The PDF will also have the opportunity to work with researchers at Ducks Unlimited Canada, and collaborate with other research groups at UBC. Responsibilities include original scientific research, mentoring graduate and undergraduate students, and manuscript preparation. Specifically, the PDF will assist with the maintenance of multiple eddy covariance flux tower sites, processing eddy covariance data from a subset of sites, conducting original research using data collected from these towers, and publishing peer-reviewed manuscripts. The PDF will also develop

professional skills such as collaboration and communication by participating in biweekly to monthly meetings with Ducks Unlimited Canada collaborators and by presenting research at national and international scientific conferences.

**Salary:** \$50,000/year + benefits (see <https://hr.ubc.ca/benefits> for benefits details). The initial hiring is for one year with a second-year contingent on acceptable performance.

## **Postdoctoral Qualifications**

### Essential Qualifications

- A PhD in atmospheric science or a strongly related natural science field;
- A strong quantitative (including programming skills in R and/or Matlab) and technical background;
- Experience with installing and maintaining eddy covariance flux towers, and with processing eddy covariance data (e.g., using EddyPro or in-house software);
- A proven record of scientific publications in peer-reviewed journals
- Time management skills, including the ability to meet project goals in a timely manner, and follow through on projects to completion;
- Interpersonal and communication skills, the ability to work both independently and collaboratively.
- Be within 5 years of being awarded the PhD (this is a UBC requirement)

### Desired Qualifications

- Experience working in wetland ecosystems
- Experience with biogeochemical modeling
- A valid driver's license

**To apply:** Candidates should submit the following materials via email to [sara.knox@ubc.ca](mailto:sara.knox@ubc.ca) in a single PDF document, with your last name in the file name and the subject heading "Wetlands Carbon Dynamics PDF":

- a one-page cover letter explaining your motivation for applying for this position; how your prior research experience qualifies you for the position; your mentoring experience; and evidence of your commitment to equity, diversity and inclusion (EDI);
- a CV (including publication list and clear specification of relevant quantitative skills);
- names and contact details for three references;

Review of applications will begin on **March 1**, and applicants must be available to start the position between April – July 2022.

Receipt of your application will be confirmed by email but only applicants selected for an interview will be contacted. Once contacted for an interview, please let us know if you require an accommodation, and we will endeavour to make arrangements.

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Métis, Inuit, or Indigenous person. We understand that career paths vary. Legitimate career interruptions will in no way prejudice the assessment process and their impact will be carefully considered. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.