



5009 CHAPEL SQUARE, ST. FRANCIS XAVIER UNIVERSITY, ANTIGONISH, NS, CANADA, B2G 2W5

FluxLab at St. Francis Xavier University is a leading centre of expertise for research on greenhouse gas emissions. Our work is diverse and involves industrial sources, natural landscapes, and issues in regulation and economics. Several **fully funded M.Sc. and Ph.D. positions**, supervised by Professor Dave Risk, are available on

1. Development of hyperspectral imaging platforms for quantifying methane emissions from landfills, managed wetlands, and the upstream oil and gas industry, funded by a National Science and Engineering Research Council of Canada (NSERC) Alliance Missions Grant.
2. Development and application of various technologies and modeling methodologies for emissions detection and quantification, funded by Environment and Climate Change Canada Climate Action & Awareness Fund.
3. Reliably measuring regional methane emissions at sites of oil and gas production in Canada, and increasing comparability of Canadian inventory estimates, funded by NSERC Alliance Grant.

All positions are based in Antigonish, Nova Scotia, and involve travel within Canada. We offer competitive graduate student stipend compensation and excellent professional development training. Applications from Canadian citizens, residents, or those with existing Canadian study permits are encouraged given near term start dates are desired. Proficiency in oral and written communication in English is mandatory.

M.Sc. applicants are expected to hold, or soon complete, a B.Sc., B.Eng., B.A.Sc., or equivalent degree in related engineering or science fields. Ph.D. applicants are expected to hold a M.Sc., M.Eng., M.Sc., or equivalent degree in related engineering or science fields. Previous experience in field and laboratory environments will be considered an asset. In addition, the candidate should have the following qualifications:

- Knowledge of methane emissions sources and measurement approaches.
- Experience with emissions measurement data and modeling methods.
- Ability to work both independently and collaboratively with an interdisciplinary group involving students and faculty from a range of backgrounds, as well as external stakeholders.
- Efficient organizational and time management skills in setting priorities and accomplishing tasks within deadlines.

We embrace equity, diversity, and inclusion and seek lab members who will contribute to a welcoming, engaging environment for all students and researchers of all races, genders, ability, and backgrounds.

Applicants should submit a single pdf including a well-written cover letter that demonstrates a fit with the requirements outlined above, their CV and two references with email addresses, directly to Chelsie Hall (chall@stfx.ca) using the subject line, "Graduate Studies Applicant." Only leading candidates will be contacted.

