

Mitacs Career Connect Opportunity

Eligibility: Interns must be less than 30 years old at the start of the internship, a post-secondary graduate, and a Canadian citizen, permanent resident, or person who has been granted refugee status in Canada.

To see full ad and apply to this opportunity, visit: <https://connect.mitacs.ca/en/job/school-resource-and-environmental-studies-dalhousie-university-quantitative-data-analyst>

Quantitative data analyst, resource statistical and/or library science

Supervisor: Dr. Kate Sherren, School for Resource and Environmental Studies, Dalhousie University, Halifax, NS

Six months from January 2, 2019 to June 28, 2019

Salary \$20,000

SRES is looking for a skilled quantitative analyst in one or both of bibliometric/scientometric methods or statistics to assist with SSHRC-funded projects within the research lab of Dr. Kate Sherren (<http://www.katesherren.org>). Dr. Sherren's lab explores the social and landscape issues associated with sustainability transitions, including in agricultural, energy, coastal and urban systems. The successful applicant will glean insights from secondary datasets, rather than generating new data, to contribute to projects about sustainable grazing and renewable energy transitions (though additional topics as listed above are also possible over the 6-month term). Example datasets and analyses include: a) inferential statistical analysis of a large-scale social survey; and/or b) systematic reviews and bibliometrics of specific corpora of scientific literature. The successful applicant will become a co-author on associated peer-reviewed publications, and have the opportunity to lead such publications if they demonstrate the capacity and have the inclination. They may also provide quantitative methods advice and support within their domain of expertise to other members of Dr. Sherren's lab, including postdoctoral fellows, PhD students and Masters students.

Required qualifications

Completed Master's in Library/Information Science, Statistics, Information Technology, Computer Science, Quantitative Social Science (e.g. Sociology, Rural Sociology), Conservation Social Science, Social/Environmental Psychology or other landscape-related program (e.g. Geography, Planning, Agriculture, Landscape Architecture) with development of the required skills:

- Strong academic performance (e.g. GPA) as well as strong scholarly writing and data visualization skills
- Independent problem-solving orientation, along with interest in being part of an interdisciplinary team
- Openness to learning new methods and software using academic literature and online manuals
- Strong organizational skills (including reporting, metadata, reference management software), time management and attention to deadlines

If pursuing a **bibliometric** role, applicants will be expected to have:

- Strong understanding of library databases such as Web of Science, and their strengths and weaknesses;
- Experience with the principles and practices of systematic literature review; and,
- Applied use of scientometric methods, including through software such as VOSviewer.

If pursuing a **statistics** role, applicants will be expected to have:

- Strong understanding of social science applications of statistics;
- Knowledge of secondary datasets that cover human-environment issues, such as surveys undertaken by Statistics Canada; and,
- Experience using quantitative (tabular) survey data to understand social phenomena, by use of software such as SPSS or STATA.

Candidates who can cover both of the above are particularly encouraged, even if they are stronger in one area than the other but are willing to learn. Training opportunities may be made available for the right candidate.