



**Carleton
University**

Department of
Geography and
Environmental Studies

Post-doctoral Fellowship or Research Associate position

in

Building Capacity in Satellite-based Earth Observation

Drs. Koreen Millard and Scott Mitchell are looking to recruit a highly motivated academic professional to fill a dual role of pedagogical development of remote sensing courseware (approx. 75% time), and acting as a research manager across a variety of earth observation projects (approx. 25% time). The position was recently funded through a Canadian Space Agency project to address gaps in training and skills and develop pedagogical materials in remote sensing. Depending on the background and wishes of the successful applicant this work could be structured as a postdoctoral fellowship or a research associate, but for simplicity we will refer to the position as a “PDF” below.

The successful applicant will join a dynamic group of academic, government, industry and not-for-profit experts with a variety of expertise and needs in remote sensing. The position will be based at Carleton University in Ottawa, Ontario, and will be full-time, beginning on a 2-year contract. The PDF will coordinate the development of coursework, including research on pedagogical innovation to enrich the courses, and the involvement of graduate student researchers and assistants. They will advise on, help deliver, and assess prototype courses. Ideally, this position will be held by a person with experience and interest in advancing their knowledge in a combination of geomatics education, and satellite earth observation. Further, the candidate will be supported in writing peer-reviewed publications, attending conferences, and applying for independent research funding.

The candidate will work closely with partners (Environment and Climate Change Canada, Agriculture and Agri-Food Canada, Nature Conservancy of Canada, Carleton’s Centre for Indigenous Support and Community Engagement, Carleton’s Teaching and Learning Services, EarthDaily Analytics, Teledyne, TerraMotion, Association for Canadian Universities for Northern Studies), providing high-quality collaboration opportunities. The postdoctoral fellow will be the core that brings together the co-investigators, the courses, research and advising on innovative pedagogical approaches, and the rest of the HQP. Drs. Millard and Mitchell, along with their partners, actively support the enhancement of EDI in

academia and encourage applicants from underrepresented demographics to apply. We commit to maintaining a safe and supportive environment for students, researchers, and staff and will continue to prioritize EDI moving forward.

What we expect from you (existing qualifications):

- Doctoral or Master's degree in Geography, Geomatics, or related field, with extensive experience in remote sensing ;
- Experience in developing and delivering course materials (e.g. as a teaching assistant or lecturer, or alternative exposure to teaching or learning development);
- Commitment to enhancing the training of earth observation through research-informed pedagogical development;
- Demonstrated high quality peer-reviewed publications;
- Proficiency with coding/scripting in R and/or Python;
- Excellent written and oral communication in English; and
- Ability to work well both in a team and independently.

Other valued qualities:

- Experience with airborne LiDAR and/or Synthetic Aperture Radar and/or InSAR;
- Experience with Google Earth Engine or other cloud-based remote sensing platforms;
- Excellent time management skills;
- More advanced teaching / learning development / pedagogical experience;
- Comfort working with open coding/open access principles;
- Previous experience managing research or projects.

Salary is negotiable based on background and length of term; funds are in place for starting annual salaries in the range of \$50 000 - \$65 000 for at least 2 years, plus separate travel / conference allocations. Position could start as early as July 2024, and applications will be accepted until the position is filled.

Application Procedure:

Please submit applications by email to recruitment@glel.carleton.ca. Attach a single PDF including a cover letter outlining how your background and interests are a good fit for this position, and a current CV. Questions about the position in advance of application are welcome (reach out in person or email Koreen.Millard@carleton.ca and Scott.Mitchell@carleton.ca).