McMaster University | **SCIENCE**

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Postdoctoral researcher position: Carbon stock vulnerability to disturbance and climate change in terrestrial ecosystems of Canada

The Remote Sensing Lab at the School of Earth, Environment and Society, McMaster University, ON, Canada (PI Alemu Gonsamo, Assistant Professor and Canada Research Chair) is recruiting a postdoctoral fellow to map C stock vulnerability to disturbance and climate change in terrestrial ecosystems of Canada. The postdoctoral fellow will develop novel mechanisms, including deep learning algorithms, to map C stock vulnerability to individual or compound events of fire, insect and disease outbreaks, and climate extremes using historic satellite data records and C cycle models. The project will potentially involve the use of LIDAR, optical and SAR observations and ground measurements for spatially resolved mapping of soil and standing biomass carbon stock vulnerability.

The project is funded by *World Wildlife Fund Canada* (*WWF-Canada*). WWF-Canada is one of Canada's largest conservation organizations and is a member of the WWF global network, actively contributing to the protection, management, and restoration of the environment. The postdoctoral fellow will have opportunity to interact closely with the Science, Research and Innovation division of WWF-Canada office in Toronto. The postdoctoral fellow will also have opportunity to collaborate with the Canadian Forest Service.

The position is ideally suited to researchers with strong skills in regional or global remote sensing of vegetation with keen interest in C cycle processes in terrestrial ecosystems. The successful candidate will be provided with the opportunity to lead the research project, coordinate collaborations, and publish results. Funding is available for 12 months at a competitive salary that is commensurate with qualifications and experience, with the possibility of renewal. Start date is May 1, 2021 but may be flexible.

Candidates must exhibit effective written and oral communication skills, experience working in R or other computer languages, have demonstrated ability to publish peer-reviewed papers, and have a Ph.D. pending or awarded in relevant discipline. To apply, please send a letter of interest, current CV, and names and contact information of two references to Alemu Gonsamo at gonsamoa@mcmaster.ca. The application deadline is March 31, but review will start immediately and continue until the position is filled.

McMaster University is located on the traditional territories of the Haudenosaunee and Mississauga Nations and, within the lands protected by the "Dish With One Spoon" wampum agreement.

In keeping with its Statement on Building an Inclusive Community with a Shared Purpose, McMaster University strives to embody the values of respect, collaboration and diversity, and has a strong commitment to employment equity. The diversity of our workforce is at the core of our innovation and creativity and strengthens our research and teaching excellence. The University seeks qualified candidates who share our commitment to equity, diversity and inclusion. While all qualified candidates are invited to apply, we particularly welcome applications from women, persons with disabilities, First Nations, Métis and Inuit peoples, members of visible minorities, and LGBTQ+ persons. Job applicants requiring accommodation to participate in the hiring process should contact the Human Resources Service Centre at 905-525-9140 ext. 222-HR (22247) or the Faculty of Health Sciences Human Resources office at ext. 22207 to communicate accommodation needs.