

Remote Sensing and GIS for Precision Agriculture

Seeking One Postdoctoral Researcher at Simon Fraser University (Canada)

The [Remote Sensing of Environmental Change Lab](#) in the Department of Geography at Simon Fraser University is recruiting one Postdoctoral Researcher to work on remote sensing and GIS for precision agriculture in a project funded by [Canada's Digital Technology Supercluster](#), [Mitacs](#) and industry partners.

Research topics include: 1) Mapping crop and soil properties using drone- and satellite-based multi-sensor images (e.g., hyperspectral, LiDAR, and thermal), agricultural machinery data, and Internet of Things; 2) Classification of weeds and invasive species using remote sensing images; and 3) GIS analysis of crop growth status and influencing environmental factors. The position will be based at the SFU Burnaby Campus. Multiple field sites are in southern British Columbia and southern Saskatchewan. Working closely with industry partners on field data collection and analysis is anticipated.

The research team is seeking one Postdoctoral Researcher with research experience and skills in relevant disciplines, including but not limited to remote sensing, GIS, agriculture, ecology, soil science, and computing science (e.g., machine learning). Applicants with expertise in multiple disciplines are highly encouraged to apply. The postdoctoral position is for one year, and an extension is possible depending on funding availability and performance. The anticipated start date is February/March 2022.

Interested applicants should contact Dr. Bing Lu (b_lu@sfu.ca) as soon as possible and send a single PDF document with 1) a 1~2-page cover letter outlining your interests and research experience; 2) a full and updated CV; 3) post-secondary transcripts (unofficial copies acceptable); and 4) contact information of three academic or professional referees. Please use “Applicant for precision agriculture” as the subject of your email.

Simon Fraser University is located on the traditional unceded territories of the x^wməθk^wəy̓əm (Musqueam), S^kwx̣wú7mesh Úxwumixw (Squamish), səlilwətaʔł (Tsleil-Waututh), qícəy̓ (Katzie), k^wik^wəłəm (Kwikwetlem), Qayqayt, Kwantlen, Semiahmoo and Tsawwassen peoples. Equity, diversity, and inclusion (EDI) are core values of the Remote Sensing Lab, and we are committed to enhancing these values in our research and related activities. We are focused on creating an inclusive environment that respects the diverse perspectives from all group members.