

Remote Sensing for Precision Agriculture

Seeking One Postdoctoral Researcher and Two Graduate Students

Simon Fraser University

The [Remote Sensing of Environmental Change Lab](#) in the Department of Geography at Simon Fraser University is recruiting one Postdoctoral Researcher and two Graduate Students to work on remote sensing for precision agriculture on a project funded by industry partners.

Research topics include: 1) Mapping soil moisture and carbon content using drone-based images (e.g., hyperspectral, LiDAR, and thermal) and Internet of Things; 2) Evaluating crop growth status using drone and satellite images, weather information, and agricultural machinery data; and 3) Utilizing remote sensing products for supporting farming practices. 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 Remote Sensing Lab and industry partners will submit a Mitacs proposal in July 2021 to support this research. The team is seeking one Postdoctoral Researcher and two Graduate Students with research experience and skills in relevant disciplines, including remote sensing, agriculture, ecology, and soil science. Applicants with expertise in more than one disciplines are highly encouraged to apply. The anticipated start date is September 2021. The end date for the postdoctoral position is January 2023, and an extension is possible depending on funding availability and performance. Regarding graduate programs, the length is typically 2 years for MSc and 4 years for PhD. More information on university admission requirements for graduate students (including GPA and proof of English proficiency) and formal application procedures can be found here [Department of Geography Graduate Program](#). Applications for admission for September 2021 can still be submitted at this time.

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 learning / research experience, especially in remote sensing, agriculture, ecology, and soil science; 2) a full and updated CV; 3) unofficial transcripts; 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^wəy^əm (Musqueam), S^kwxwú7mesh Úxwumixw (Squamish), səlilwətaʔł (Tsleil-Waututh), ǰícəy (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.