UNIVERSITY OF SASKATCHEWAN

The University of Saskatchewan values diversity, and Aboriginal engagement is a strategic priority.

Research Technician (UAV Specialist)

Status: 12 month term with possibility of extension

Primary Purpose: The Centre for Hydrology at the University of Saskatchewan is seeking a Research Technician (Unoccupied Aerial Vehicle (UAV) specialist) to provide UAV operation support to research projects conducted in the Canadian Rocky Mountains and Prairies. This position is based at USask Coldwater Laboratory, Canmore, Alberta but will require travel to Saskatoon, Saskatchewan for training and Prairie operations. This will be a full-time, term position for one year with a targeted start date of November 15, 2021. Starting salary is commensurate with abilities and experience.

Accountabilities:

- Organizing and conducting UAV field work for the Centre for Hydrology as the primary pilot at the Coldwater Laboratory;
- Keeping orderly and accessible records of field equipment, experimental field notes and records, experimental plans;
- Coordinate logistics, and manage and maintain inventory in conjunction with Saskatoon based Centre for Hydrology staff to meet scientific objectives
- Organizing, archiving, updating, processing and reviewing UAV data; Conducting guided scientific analysis in support of Centre research activities with an emphasis on mountain and prairie hydrology research;
- Contributing to the communications and visibility of the Centre, office, experiments, personnel and students;
- Training research staff and students as to proper experimental techniques, protocols and activities, and safety in UAV operations; and
- Other research duties specified by Professor Pomeroy.

Qualifications:

Education: Completion of a post-secondary education in areas of environmental sciences or engineering, or geomatics, completion of a UAV Ground school; and a Transport Canada issued RPAS Pilot Certificate – Basic Operations (Advanced preferable)

Experience: (Required) Pilot in command of UAV operations, hydrometeorological/ground truthing data collection, planning and managing logistics of field data collection campaigns, and conducting winter time field operations in Canadian Rockies/Prairies. (Desired) Beyond visual line of sight (BVLOS) operations, lidar data collection and processing, structure from motion processing of UAV imagery, geospatial data management, Permit management (e.g. application preparation and compliance for site permissions and/or SFOCs)

Skills:
Ability to:

1. operate UAV's as Pilot in Command in challenging (weather and terrain) environments
2. organize fieldwork to meet scientific goals and objectives in a cost effective, quality assured manner.
3. work independently with a minimum of supervision;
4. supervise staff and students;
5. maintain UAVs and UAV sensors,
6. manage and process raw UAV data to generate scientific data products;
7. snowshoe, ski, travel on glaciers, travel in avalanche zones safely and work outdoors in adverse conditions in the Canadian Rocky Mountains and Prairies.

Personal Suitability: Must demonstrate the ability to exercise sound judgment to prioritize and ensure safety of personnel and equipment in harsh conditions and remote locations. Must display effective interpersonal relationships, reliability, integrity, alertness, physical fitness, initiative, and cooperativeness.

Conditions of Work: Must possess a valid driver's license and be able to operate a variety of vehicles. Must possess valid First Aid and CPR certificate. Willingness to work in remote wilderness locations. Platform and sensor specific training will be provided. The position will be based at the Coldwater Laboratory in Canmore, Alberta. An initial training period, and occasional UAV operations in the Prairies, will require extended trips from the home base to Saskatoon SK.

Review of applicants will begin on October 29, 2021. The position will remain open until a suitable candidate is found. Email your CV, cover letter, and names and contact information of three references to centre.hydrology@usask.ca

Distinguished Professor John Pomeroy
Canada Research Chair in Water Resources and Climate Change
Director, Centre for Hydrology
Director, Global Water Futures
University of Saskatchewan
116A - 1151 Sidney Street.
Canmore, Alta. T1W 3G1

www.usask.ca/hydrology
www.gwf.usask.ca/

The University of Saskatchewan is strongly committed to a diverse and inclusive workplace that empowers all employees to reach their full potential. All members of the university community share a responsibility for developing and maintaining an environment in which differences are valued and inclusiveness is practiced. The university welcomes applications from those who will contribute to the diversity of our community. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.