

Station Manager (6239U), Central Sierra Snow Laboratory
11836
University of California, Berkeley

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Job Title	Station Manager (6239U), Central Sierra Snow Laboratory 11836
Department	
Institution	University of California, Berkeley Berkeley, California
Date Posted	Oct. 20, 2020
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate Director/Manager
Academic Field(s)	Water Resources Engineering
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Job Description

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About Berkeley

At the University of California, Berkeley, we are committed to creating a community that fosters equity of experience and opportunity, and ensures that students, faculty, and staff of all backgrounds feel safe, welcome and included. Our culture of openness, freedom and belonging make it a special place for students, faculty and staff.

The University of California, Berkeley, is one of the world's leading institutions of higher education, distinguished by its combination of internationally recognized academic and research excellence; the transformative opportunity it provides to a large and diverse student body; its public mission and commitment to equity and social justice; and its roots in the California experience, animated by such

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values as innovation, questioning the status quo, and respect for the environment and nature. Since its founding in 1868, Berkeley has fueled a perpetual renaissance, generating unparalleled intellectual, economic and social value in California, the United States and the world.

We are looking for equity-minded applicants who represent the full diversity of California and who demonstrate a sensitivity to and understanding of the diverse academic, socioeconomic, cultural, disability, gender identity, sexual orientation, and ethnic backgrounds present in our community. When you join the team at Berkeley, you can expect to be part of an inclusive, innovative and equity-focused community that approaches higher education as a matter of social justice that requires broad collaboration among faculty, staff, students and community partners. In deciding whether to apply for a position at Berkeley, you are strongly encouraged to consider whether your values align with our [\[url=https://apptrkr.com/get_redirect.php?id=2028177&targetURL=https://strategicplan.berkeley.edu/guiding-values-and-principles/\]](https://apptrkr.com/get_redirect.php?id=2028177&targetURL=https://strategicplan.berkeley.edu/guiding-values-and-principles/)Guiding Values and Principles, our [\[url=https://apptrkr.com/get_redirect.php?id=2028177&targetURL=https://diversity.berkeley.edu/principles-community\]](https://apptrkr.com/get_redirect.php?id=2028177&targetURL=https://diversity.berkeley.edu/principles-community)Principles of Community, and [\[url=https://apptrkr.com/get_redirect.php?id=2028177&targetURL=https://strategicplan.berkeley.edu/jour Strategic Plan](https://apptrkr.com/get_redirect.php?id=2028177&targetURL=https://strategicplan.berkeley.edu/jour-Strategic-Plan)[\[url=https://apptrkr.com/get_redirect.php?id=2028177&targetURL=https://strategicplan.berkeley.edu\]](https://apptrkr.com/get_redirect.php?id=2028177&targetURL=https://strategicplan.berkeley.edu).

Application Review Date

The First Review Date for this job is: October 30, 2020

Departmental Overview

The Central Sierra Snow Lab (CSSL) is an off-campus research facility located in the Donner Summit region in the Sierra Nevada Mountains of California (3919'N, 12022'W). This location is near Soda Springs, about 25 km northwest of Lake Tahoe. It is one of the nation's principal observatories of hydrological and meteorological phenomena in a mountain environment. The CSSL was established in 1946 by the US Army Corps of Engineers and Weather Bureau; was managed by the U.S. Forest service from 1954 to 1995; and has been managed by the University of California, Berkeley since 1996 through an MOU with the USDA Forest Service. Hence, the building and property belong to the USDA, and the instrumentation and equipment belong to UC Berkeley and various research agencies. The facility's major function is hydrological research and features a heavily-instrumented field site and associated technical expertise to support PIs from various research entities, such as the University of California, Department of Water Resources, National Weather Service, Natural Resource Conservation Service, Western Regional Climate Center, and USDA Forest Service. This job also entails management of research and long-term instrumentation at the Onion Creek Experimental Forest.

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Research projects at CSSL have included: modeling black carbon's role as an albedo-changing precipitate and snow surface impurity; studying the isotopic evolution of the snowpack; measuring the attenuation of cosmic gamma radiation to assess snowpack snow water equivalent; the operational utility of weather forecasts; using LiDAR to measure snowpack spatial and temporal distribution; trends in Sierra Nevada climatology and snowpack during the past six decades; modeling ground and surface water response to snow accumulation and ablation; modeling air temperature lapse rate; fluidless precipitation gauge development; snow surveys; and avalanche safety and forecasting.

Responsibilities

* Hydrological Research.

* Under minimal supervision, performs field and experimental work that requires technical knowledge of hydrological equipment and skill in collecting (physical) and analyzing (mental) hydrological samples. Performs deep snow pit profiles including depth, density, snow water equivalent, temperature, free water, ion concentration, dielectric constant, crystal/grain size/ type. Performs imaging of ice lenses, flow fingers, micro/macro pores. Does programming of data loggers. Performs wet chemistry - pH, conductivity, and alkalinity. Prepares and carries out water quality monitoring, collection, analysis and interpretation of data. Tasks involve different and unrelated processes and methods. The work requires familiarity and judgment in selecting appropriate alternatives from among a number of standard hydrological principles, methods and practices. Inventories, analyzes, and interprets various hydrologic factors and conditions to determine interrelationships, deviations, and their relationship to forest resource management. Makes innovative contributions to research procedures, and often times the freedom to implement his/her own procedures. Performs a variety of studies depending on the research. Performs statistical analyses of data. Prepares technical reports, publications and presentations. Writes proposals for funding. Responsible for hydrometeorological instrumentation fabrication, siting, installation, and maintenance for equipment such as: radiometers, thermocouples, anemometers, precipitation gauges, stream flow gauges, hygrothermographs, cosmic ray sensors, acoustic distance gauges, infrared thermometers, meltpan arrays, tipping buckets, wet/dry deposition sampler, soil tensiometers, snow pillows, and pressure transducers. Interviews, trains and supervises employees needed for research projects

* Station manager.

* Schedules and coordinates research activities on site and within buildings; coordinates and conducts necessary maintenance of facilities and equipment; handles all purchasing for research activities and office; negotiates contracts for various construction; and maintains and administers petty cash.

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- * Supports university and K-12 field trips and public education programs.
- * Coordinates Snow Lab website and social media accounts.
- * Develops and implements field and lab safety procedures and protocols and ensures that they are followed by station users. During the non-peak season (June - September), provides at least 20 days of operational support to the Sagehen Creek Field Station.

- * Collaborative research support.

- * Participates as a member of interdisciplinary team working on hydrometeorologic projects.
- * Undertakes research projects in collaboration with academic and other investigators, who work mainly at their home locations.
- * Researchers depend on incumbent to perform the initial data collections and to ensure that results are accurate and dependable - work efforts directly affect researchers' results.
- * Must be able to exercise independent judgment in making minor deviations from guidelines in order to adapt them to specific research projects or other needs.
- * Performs surveys of areas following disturbance of resources, and makes recommendations on restoration projects being considered for implementation.
- * As the resident expert of the local wilderness area, also may provide assistance in search and rescue operations as needed by the local authorities.

Required Qualifications

- * Technical knowledge of hydrological equipment and skill in collecting (physical) and analyzing (mental) hydrological samples.
- * Ability to dig and analyze deep snow pit profiles including depth, density, snow water equivalent, temperature, free water, ion concentration, dielectric constant, crystal/grain size/ type.
- * Ability to image ice lenses, flow fingers, micro/macro pores; to program data loggers and manage data; to perform wet chemistry measurements (e.g., pH, conductivity, and alkalinity), and to prepare and carry out water quality monitoring, collection, analysis and interpretation of data.
- * Familiarity and judgment in selecting appropriate alternatives from among a number of standard hydrological principles, methods and practices.
- * Ability to write technical reports, peer-reviewed publications, and funding proposals.
- * Ability to manage budgets, maintain facilities, manage contracts, and meet regulatory and budgetary reporting requirements.
- * Ability to problem solve both personal and technical issues at field sites.
- * Ability to work in isolated and rugged environments.
- * Must be able to ski or snow shoe, since incumbent is responsible for data collection and equipment

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maintenance throughout the year (typically travels up to 20 miles/day over the snow during research projects).

- * Ability to deal with heavy snow conditions during winter, including extensive snow shoveling, snow removal from roofs, and operation of snowcats and snow blowers.
- * Must be able to work in a varied environment -- performing both office and field work which includes hiking over rough, uneven ground, wading in streams, traversing snow fields and working in inclement weather
- * Ability to drive a truck and 4-wheeler, to operate power tools, and to work safely in wood and metal working shops.
- * Ability to climb tall towers for instrument installation, maintenance, and removal.
- * Ability to support Sagehen Creek Field Station operations during the Snow Lab's non-peak season.
- * Ability to facilitate and collaborate with a diverse group of constituencies on long- and short-term property operations planning and fundraising.
- * Near daily physical work required from November through May, except for brief intervals on UC business, or on authorized days off and vacation periods.
- * Must know professional concepts and methods of hydrology with sufficient knowledge of standard practices to perform a variety of hydrological projects.

Education/Training

- * Bachelor's degree in related area and / or equivalent experience / training.
- * Avalanche, winter backcountry guiding.
- * Tower climbing training.
- * Environmental Health and Safety trainings.

License/Certifications

- * First aid, CPR and relevant survival skills.

Preferred Qualifications

- * Master's degree in related area and / or equivalent experience / training preferred.

Salary & Benefits

For information on the comprehensive benefits package offered by the University visit:

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How to Apply

Please submit your cover letter and resume as a single attachment when applying.

Please send name and contact information for 3 professional references.

Driving Required

A valid driver's license and DMV check for driving record is required.

Conviction History Background

This is a designated position requiring fingerprinting and a background check due to the nature of the job responsibilities. Berkeley does hire people with conviction histories and reviews information received in the context of the job responsibilities. The University reserves the right to make employment contingent upon successful completion of the background check.

Equal Employment Opportunity

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or protected veteran status. For more information about your rights as an applicant see:

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For the complete University of California nondiscrimination and affirmative action policy see:

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Contact Information



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Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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