

Department/School Name: Department of Earth & Climate Sciences
Area of Specialization: Environmental Hydrology
Rank of Appointment: Assistant Professor

Position Description

**Department of Earth & Climate Sciences
College of Science & Engineering
San Francisco State University**

Position title: Assistant Professor position in Department of Earth & Climate Sciences, College of Science & Engineering, San Francisco State University.

Start date: August, 2019

Position Summary: The position is in the Department of Earth & Climate Sciences at San Francisco State University.

The Department of Earth & Climate Sciences (E&CS) (tornado@sfsu.edu), has 9 tenured/tenure-track faculty and five lecturers. It offers a BS degree in Earth Sciences, with emphases in Hydrology, Geology, and Ocean, Weather and Climate; a BA degree in Earth Sciences; and a MS degree in Geosciences. Together, these programs enroll more than 75 undergraduate majors and 20 MS students. E&CS houses Students for Sustainable Water (<https://sfsuwater.org/>), an X-Ray Fluorescence (XRF) lab, the Electron Microscopy Facility, and several classrooms and student spaces equipped with computers for instructional use. Other available facilities include the Sierra Nevada Field Campus (<http://www.sfsu.edu/~sierra/>), the University's environmental field station; and the Estuary & Ocean Science Center (<http://eoscenter.sfsu.edu/>).

The position is focused on environmental hydrology, with emphasis on the interactions between hydrology, climate, and earth and environmental systems, broadly construed.

The position includes a full-time faculty workload per the Collective Bargaining Agreement between the California State University and the California Faculty Association. The workload primarily includes teaching or other agreed upon primary assignment; conducting an active ongoing program of scholarship that advances knowledge in the field of one's specialty; and service contributions to the department, college and the university. Current practices typically enable a reduced teaching load for pre-tenure faculty.

The teaching assignments will be at the undergraduate and graduate levels. Teaching duties may include Surface Water Hydrology, Environmental Water Resources, California Water, or other undergraduate and graduate courses in the area(s) of expertise.

The candidate's scholarship may address a range of topics in the areas of environmental hydrology by integrating field observations with numerical modeling to understand hydrologic and/or hydroclimatologic processes from the plot to watershed or larger scales. Such research topics may include linking physical hydrology and/or hydroclimatology to earth and environmental systems that enhance water resource management decisions and policy choices in California and the Western U.S. Other topics may include water resources sustainability under climate variability and change; surface-

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water/groundwater interactions; urban hydrology, including stormwater; the water-energy-food nexus; hydrologic control on fluvial geomorphologic systems; interactions of freshwater and saltwater in coastal and deltaic systems; and interdisciplinary study of water in coupled human-natural systems.

Additional responsibilities include, but are not limited to, productive participation on departmental, college, and university-wide committees; mentoring and advising graduate and undergraduate students; holding regular office hours; curriculum development and improvement, particularly with regard to student learning outcomes; and remaining current in both subject area and teaching methodologies. Service responsibilities could include engaging with local, state, federal, or international agencies and other stakeholder groups.

Essential Job Tasks:

Facilitate student success through teaching and advising with a focus on inclusive pedagogy;
Facilitate student scholarship success by supervising and mentoring graduate and undergraduate student research projects;
Develop course materials for undergraduate and graduate students on topics such as surface-water hydrology, environmental water resources, or California water linked to student learning outcomes;
Develop an outstanding, nationally recognized research program in their area(s) of specialty;
Secure external research funding;
Present findings in peer-reviewed journals, books, or professional conferences;
Stay current on developments in the discipline;
Plan, evaluate and revise curricula, course content, course materials, and methods of instruction;
Hold regularly-scheduled office hours for the purpose of advising and assisting students;
Actively participate on assigned committees in accordance with Department or College needs, and SF State's strategic vision;
Actively participate in collegial interactions in fulfilling service assignments and other duties at the department, college, and university level.
Additional duties as assigned.