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Postdoctoral Scholar - Critical Zone Scientist

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Job #JPF00694

- Research and Campuswide Programs - Campuswide Programs

RECRUITMENT PERIOD

Open August 29th, 2018 through September 28th, 2018

DESCRIPTION

The University of California, Merced, is the newest of the University of California system's 10 campuses and the first American research university built in the 21st century. With more than 7,500 undergraduate and graduate students, UC Merced offers an environment that combines a commitment to diversity, inclusion, collaboration and professional development. With bachelor's, master's and doctoral degree programs, strong research and academic partnerships, and community involvement, the UC Merced campus is continually evolving and requires talented, knowledgeable and dynamic educators, researchers, management and staff.

Ranked among the best public universities in the nation by U.S. News and World Report, UC Merced is uniquely equipped to provide educational opportunities to highly qualified students from the San Joaquin Valley and throughout California. The campus enjoys a special connection with nearby Yosemite National Park, is on the cutting edge of sustainability in construction and design, and supports the economic development of Merced and the region.

In Fall 2016, UC Merced broke ground on a \$1.3 billion public-private partnership that is unprecedented in higher education. The Merced 2020 Project will nearly double the physical capacity of the campus by 2020, enhancing academic distinction, student success and research excellence. UC Merced is also building the Downtown Campus Center, a \$33 million, three-story administrative building in the heart of Merced.

The Sierra Nevada Research Institute is the largest research institute at UC Merced with representation from faculty across the campus. The SNRI is accepting applications for a postdoctoral research position with the Southern Sierra Critical Zone Observatory (SSCZO). The successful candidate will use and synthesize existing data collected in and around the SSCZO to better understand the geophysical, geochemical, hydrological, and ecological controls on the development and function of the Critical Zone (CZ). The ideal candidate will have a strong publication record in fields related to CZ development along with demonstrated experience in linking geospatial, remotely sensed and in-situ datasets of water, nutrient, soil, vegetation, geochemistry, geophysics, and meteorology. Experience in landscape-scale modeling is also an asset.

Required qualifications include: a Ph.D. in a relevant area (Earth System Science / Hydrology) must be conferred by the start date of the position; experience with data analysis and/or modeling skills as demonstrated per publication record; and excellent written communication, organizational, and interpersonal skills.

This position will be based at UC Merced, with the option to work with SSCZO investigators at other universities. For further information see <https://criticalzone.org/sierra/> (<https://criticalzone.org/sierra/>) or contact any of the SSCZO investigators.

Interested applicants are required to submit 1) a cover letter, 2) curriculum vitae, 3) a short research statement and 4) names of at least three professional/academic references with contact information including mailing address, phone number and e-mail address. Final application date: September 28, 2018.

Review of applications will begin immediately; position will remain open until filled. Starting dates are negotiable.

Salary is based on the University of California Academic Salary Scales.

The University of California, Merced is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty, staff, and students. The University is supportive of dual career couples.

JOB LOCATION

Merced, CA

LEARN MORE

More information about this recruitment: <https://criticalzone.org/sierra/> (<https://criticalzone.org/sierra/>)

REQUIREMENTS

Document requirements

- Curriculum Vitae - Your most recently updated C.V.

- Cover Letter
- Statement of Research

Reference requirements

- 3-8 required (contact information only)

HOW TO APPLY

1. Create an ApplicantID
2. Provide required information and documents
3. If any, provide required reference information

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The University of California, Merced is committed to providing reasonable accommodations to applicants with disabilities (</accessibility>).

See our Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act Annual Security Reports (<http://www.ucop.edu/ethics-compliance-audit-services/compliance/clery-act/clery-act-details.html>).

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Postdoctoral Scholar - Sierra Nevada Research Institute

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Job #JPF00695

- Research and Campuswide Programs - Campuswide Programs

RECRUITMENT PERIOD

Open September 10th, 2018 through October 10th, 2018

DESCRIPTION

The University of California, Merced, is the newest of the University of California system's 10 campuses and the first American research university built in the 21st century. With more than 7,500 undergraduate and graduate students, UC Merced offers an environment that combines a commitment to diversity, inclusion, collaboration and professional development. With bachelor's, master's and doctoral degree programs, strong research and academic partnerships, and community involvement, the UC Merced campus is continually evolving and requires talented, knowledgeable and dynamic educators, researchers, management and staff.

Ranked among the best public universities in the nation by U.S. News and World Report, UC Merced is uniquely equipped to provide educational opportunities to highly qualified students from the San Joaquin Valley and throughout California. The campus enjoys a special connection with nearby Yosemite National Park, is on the cutting edge of sustainability in construction and design, and supports the economic development of Merced and the region.

In Fall 2016, UC Merced broke ground on a \$1.3 billion public-private partnership that is unprecedented in higher education. The Merced 2020 Project will nearly double the physical capacity of the campus by 2020, enhancing academic distinction, student success and research excellence. In 2018, UC Merced opened the Downtown Campus Center, a \$33 million, three-story administrative building in the heart of Merced.

The Mountain Hydrology Research Group at University of California Merced seeks applications for a full-time postdoctoral scholar research position in measurement and modeling management effects on Sierra Nevada ecohydrology. Sierra Nevada forests provide more than 60% of California's developed water supply. However, forest conditions in the area are unhealthy and at risk of uncharacteristic, high-severity wildfire due to past management, fire suppression, frequent droughts, warmer temperatures, and a rapidly expanding bark beetle infestation resulting in millions of dead trees. This project aims to advance the pace and scale of forest restoration through credible science and verification tool. A successful candidate will develop a detailed forest-water nexus measurement and simulation model in the American River Basin, near Lake Tahoe. The main goal of the project is to assess the effects of various forest restoration treatments (e.g. control fire, mechanical thinning, mastication) on snowpack evolution, soil moisture, transpiration, streamflow, and tree growth using both measurement and modeling. This position will involve assembling and processing historical remote sensing and forest inventory (e.g. FIA) data to both test and validate numerical models. This position will be located at the UC Merced campus; however, the successful candidate will work closely with other project partners from the Nature Conservancy, US Forest Service, American River Conservancy, and other state and federal agencies. The scholar will meet with stakeholders and water managers, prepare manuscripts and reports based on the research. Some travel and fieldwork in remote locations may be necessary.

Required qualifications:

Ph.D. in hydrology, ecohydrology, natural resources management, water resources engineering or closely related field. Ph.D. must be conferred by the start date of the position. The candidate must have hydrologic and/or ecosystem modeling experience related to forest-water nexus as well as ability to write and understand code- preferably in C++ and Fortran. Experience with fieldwork in remote conditions is also required.

Additional qualifications:

Ability to work independently with guidance from principal investigator and collaborators. Excellent written communication skills; good organizational and interpersonal skills. Ability to work in a team environment and interact with a broad range of colleagues. Experience with backcountry travel to include hiking in the snow or rough terrain.

Interested applicants are required to submit 1) a cover letter 2) curriculum vitae and 3) a list of three to five agreed references with contact information including mailing address, phone number and e-mail address; this will be submitted through the Recruit system.

Review of applications will begin immediately. Position is open until filled with a final closing date of October 10, 2018. Starting dates are negotiable with the appointment duration of up to three years (renewed annually subject to performance and continued funding).

The University of California, Merced is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty, staff, and students. The University is supportive of dual career couples.

Salary is based on the University of California Academic Salary Scales.

LOCATION

JOB LOCATION

Merced, CA

REQUIREMENTS**Document requirements**

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter
- Statement of Research

Reference requirements

- 3-8 required (contact information only)

HOW TO APPLY

1. Create an ApplicantID
2. Provide required information and documents
3. If any, provide required reference information

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Postdoctoral Scholar (INFEWS) - Sierra Nevada Research Institute

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- [Research and Campuswide Programs - Campuswide Programs](#)

RECRUITMENT PERIOD

Open September 12th, 2018 through October 17th, 2018

DESCRIPTION

The University of California, Merced, is the newest of the University of California system's 10 campuses and the first American research university built in the 21st century. With more than 7,500 undergraduate and graduate students, UC Merced offers an environment that combines a commitment to diversity, inclusion, collaboration and professional development. With bachelor's, master's and doctoral degree programs, strong research and academic partnerships, and community involvement, the UC Merced campus is continually evolving and requires talented, knowledgeable and dynamic educators, researchers, management and staff.

Ranked among the best public universities in the nation by U.S. News and World Report, UC Merced is uniquely equipped to provide educational opportunities to highly qualified students from the San Joaquin Valley and throughout California. The campus enjoys a special connection with nearby Yosemite National Park, is on the cutting edge of sustainability in construction and design, and supports the economic development of Merced and the region.

In Fall 2016, UC Merced broke ground on a \$1.3 billion public-private partnership that is unprecedented in higher education. The Merced 2020 Project will nearly double the physical capacity of the campus by 2020, enhancing academic distinction, student success and research excellence. In 2018, UC Merced opened the Downtown Campus Center, a \$33 million, three-story administrative building in the heart of Merced.

The Mountain Hydrology Research Group at University of California Merced seeks applications for a full-time postdoctoral scholar research position to work at the intersection of food, energy, and water in the California's central valley. The project is funded by the USDA/NIFA under INFEWS program (https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505241 (https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505241)). A successful candidate will develop a detailed, coupled groundwater-surface water simulation model for the Central Valley (from mountain crest to the valley floor). A key focus of this project is to improve evapotranspiration estimates and assess different strategies for enhancing groundwater recharge and storage for both the forest and valley floor. This position will involve assembling historical and real-time in-situ field measurements and remote sensing data to both test and validate numerical models that are increasingly important in understanding, modeling, and forecasting of hydrologic processes. This position will be located at the UC Merced campus; however, the successful candidate will join an interdisciplinary group working at this project, particularly the ENVISION (<http://envision.bioe.orst.edu/> (<http://envision.bioe.orst.edu/>)) modeling team at Oregon State University. The scholar will meet with stakeholders and water managers, prepare manuscripts and reports based on the research. Some travel and fieldwork in remote locations may be necessary.

Required qualifications:

Ph.D. in hydrology, water resources engineering or closely related field. Ph.D. must be conferred by the start date of the position. The candidate must have hydrologic modeling experience as well as ability to write and understand code (preferably in C++ and Fortran). Prior experience in surface and/or groundwater modeling (preferably using MODFLOW) and working in Unix/Linux environments are also required.

Additional qualifications:

Experience with fieldwork is desirable. Ability to work independently with guidance from principal investigator and collaborators. Excellent written communication skills; good organizational and interpersonal skills. Ability to work in a team environment and interact with a broad range of colleagues. Experience with backcountry travel to include hiking in the snow or rough terrain.

Interested applicants are required to submit 1) a cover letter 2) curriculum vitae and 3) a list of three to five agreed references with contact information including mailing address, phone number and e-mail address; this will be submitted through the Recruit system.

Review of applications will begin immediately. Position is open until filled with a final closing date of October 17, 2018. Starting dates are negotiable with the appointment duration of up to five years (renewed annually subject to performance and continued funding).

The University of California, Merced is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty, staff, and students. The University is supportive of dual career couples.

Salary is based on the University of California Academic Salary Scales.

JOB LOCATION

Merced, CA

REQUIREMENTS

Document requirements

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter
- Statement of Research

Reference requirements

- 3-5 required (contact information only)

HOW TO APPLY

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2. Provide required information and documents
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