

Postdoc Employee Climate Change ESPM Organisms &
the Environment/Eric and Wendy Schmidt Center for Data
Science & Environment (DSE)
University of California Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=256166>

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Posted Apr. 23, 2025, set to expire May 23, 2025

Job Title Postdoc Employee Climate Change ESPM
Organisms & the Environment/Eric and Wendy
Schmidt Center for Data Science & Environment
(DSE)

Department Center for Data Science & Environment (DSE)

Institution University of California Berkeley
Berkeley, California

Date Posted Apr. 23, 2025

Application Deadline 05/23/2025

Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Environmental Sciences/Ecology/Forestry
Computer/Information Sciences

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Job Description

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**Postdoc Employee Climate Change ESPM Organisms & the Environment/Eric and Wendy
Schmidt Center for Data Science & Environment (DSE)**

Position overview Position title: Postdoc Employee

Salary range: The UC academic salary scales set the minimum pay determined by experience level at

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appointment. See the following table(s) for the current salary scale(s) for this position

https://www.ucop.edu/academic-personnel-programs/_files/2024-25/oct-2024-scales/t23.pdf. A

reasonable estimate for this position is \$87,000 - \$95,068 determined by Postdoc Experience Level at appointment.

Percent time: 100%

Position duration: Two years with the possibility of extension based on performance and availability of funding.

Application Window

Open date: April 22, 2025

Next review date: Wednesday, May 7, 2025 at 11:59pm (Pacific Time)

Apply by this date to ensure full consideration by the committee.

Final date: Friday, May 23, 2025 at 11:59pm (Pacific Time)

Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

Position description

The Eric and Wendy Schmidt Center for Data Science & Environment (DSE) in the at UC Berkeley Department of Environmental Science, Policy, and Management is accepting applications for the Postdoctoral Employee Title for candidates interested in leading a new data-centered research project investigating the impacts of lethal humidity and heat on cattle and other animals central to food systems.

Increasing research attention has been dedicated to understanding threats that climate change-driven increases in wet-bulb temperature pose to humans. More such science is also needed when considering the potential impacts that humid heat may have upon cattle and other livestock species that also rely heavily or partially on evaporative heat loss to cool down.

Specifically, the goals of this postdoc position will be to 1) compile a global database of existing information about physiological responses of cattle and other livestock to humid heat and 2) to use these data, coupled with spatially explicit forecasts for future shifts in wet-bulb temperature, to generate predictions for how changes in wet bulb temperature will impact cattle (and secondarily other livestock species) production and the economics of these livestock systems.

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DSE postdoctoral scholars are a highly valued part of our community. They will contribute to our programs and projects, by

Providing depth to our work (80%)

Collect and analyze data related to vulnerability of cattle and other livestock to changes in heat and humidity

Curate and share these data resources openly

Work with spatial data generated from climate-change specialists involved in this project that have produced forecasts of changing heat and humidity regimes in the United States and globally

Develop and implement a model to integrate data on cattle/other livestock vulnerability to heat and humidity - with spatially explicit climate forecast data - and then generate predictions of how changing wet bulb temperatures will affect cattle/other livestock production

Link information on forecasted changes in cattle/other livestock production with industry data to understand if/how changes in heat and humidity may affect the economics of these food systems

Interface with experts in the animal science, beef cattle science, dairy science, and climate science communities

Disseminate research results to the broader scientific community via peer reviewed publications, conferences (scientific and industry), and seminars

Collaborate on project reporting needs

Bringing subject matter expertise on the topics that are critical to the success of our work

Directly contributing to the development of data-enabled tools that help to solve an environmental challenge

Growing as a scholar (20%)

Working closely with our team of data scientists and software engineers and finding ways to both learn from their approaches and contributing to next steps and new ideas for the Center

Engaging faculty and other postdocs across campus for professional development

Qualifications

Basic qualifications (required at time of application)

PhD (or equivalent international degree) or enrolled in a PhD degree program (or equivalent international degree)

Additional qualifications (required at time of start)

PhD (or equivalent international degree) required by the appointment start date. The candidate should have no more than three years of post-degree research experience by start date.

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Preferred qualifications

PhD in agricultural, animal science, environmental science and/or data science fields

Domain specific knowledge of and demonstrated research experience in one or more of the following areas

- Animal physiology, beef cattle science, and dairy science
- Climate impacts on food systems
- Quantitative modelling experience in other fields for which methodologies are transferable to understanding climate impacts on livestock systems

Demonstrate a rigorous and scholarly approach to their science, with a strong track record of publication and outreach

Be a compassionate, professional, and reliable team player who values creating and maintaining healthy relationships with partners and stakeholders

Have strong communication and diplomacy skills to give and receive feedback, celebrate successes, and constructively confront challenges

Have excellent time management and organizational skills

Experience or interest in learning open source software design and data curation

Experience or interest in learning more about animal physiology, beef cattle science, and dairy science research as it pertains to the vulnerability of livestock to heat and humidity

Demonstrate fluency with building quantitative models in applications that have goals similar to the specific aforementioned needs of this research project

Application Requirements

Document requirements

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter - A strong and concise 1-2 page statement describing your interests and qualifications for the opportunity you are applying for.

Reference requirements

- 3 required (contact information only)

Letters of reference will only be solicited for finalists

Apply link: <https://aprecruit.berkeley.edu/JPF04850>

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Help contact: kkoy@berkeley.edu

About UC Berkeley

UC Berkeley is committed to diversity, equity, inclusion, and belonging. The excellence of the institution requires an environment in which the diverse community of faculty, students, and staff are welcome and included. Successful candidates will demonstrate knowledge and skill related to ensuring equity and inclusion in the activities of their academic position (e.g., teaching, research, and service, as applicable).

The University of California, Berkeley is an Equal Opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status.

Please refer to the [University of California's Affirmative Action and Nondiscrimination in Employment Policy](#) and the [University of California's Anti-Discrimination Policy](#).

In searches when letters of reference are required all letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the [UC Berkeley statement of confidentiality](#) prior to submitting their letter.

As a University employee, you will be required to comply with all applicable University policies and/or collective bargaining agreements, as may be amended from time to time. Federal, state, or local government directives may impose additional requirements.

As a condition of employment, the finalist will be required to disclose if they are subject to any final administrative or judicial decisions within the last seven years determining that they committed any misconduct, are currently being investigated for misconduct, left a position during an investigation for alleged misconduct, or have filed an appeal with a previous employer.

- "Misconduct" means any violation of the policies or laws governing conduct at the applicant's previous place of employment, including, but not limited to, violations of policies or laws prohibiting sexual harassment, sexual assault, or other forms of harassment, discrimination, dishonesty, or unethical conduct, as defined by the employer.
- [UC Sexual Violence and Sexual Harassment Policy](#)
- [UC Anti-Discrimination Policy for Employees, Students and Third Parties](#)
- [APM - 035: Affirmative Action and Nondiscrimination in Employment](#)

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Job location

Berkeley, CA

To apply, visit <https://aprecruit.berkeley.edu/JPF04850>

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Contact Information

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

Contact

N/A

University of California Berkeley

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