

Post Doc - Barker Lab

Job #JPF04852

- VM: PATHOLOGY, MICRO, & IMMUN / VETERINARY MEDICINE / UC Davis

Apply now: <https://recruit.ucdavis.edu/JPF04852/apply>

View this position online: <https://recruit.ucdavis.edu/JPF04852>

APPLICATION WINDOW

Open date: April 1st, 2022

Next review date: Monday, Apr 18, 2022 at 11:59pm (Pacific Time)

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

Final date: Monday, May 2, 2022 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 Davis Arbovirus Research and Training (DART) Lab at the University of California, Davis seeks a postdoctoral researcher to develop web-based data analysis and visualization tools to support public-health and vector-control decisions in California and other U.S. states. The position will work as part of the Vectorborne Disease Surveillance (VectorSurv) team, along with local, state, and federal partner agencies, to develop data tools for the VectorSurv online data system (<https://vectorsurv.org> and <https://maps.vectorsurv.org>). Responsibilities will include (1) designing processes and writing code to integrate diverse data sources, including data on climate, land use, human demographics, and vector surveillance and control, (2) developing predictive models for vector abundance and vector-borne disease risk, (3) working with the programming team to automate models for use in VectorSurv's web applications, and (4) writing manuscripts describing findings.

The position will offer many opportunities to interact with the broad community of researchers in vector-borne diseases at UC Davis and elsewhere. UC Davis regularly ranks in the top 5% of U.S. public universities in research funding, and the location of the campus offers great weather, easy access to the urban areas of Sacramento and the San Francisco Bay, as well as numerous recreational opportunities from the Pacific Ocean to the Sierra Nevada Mountains.

Appointment will be for a 1-year initial term, with possible extension based on progress and funding availability.

Qualifications: Ph.D. in epidemiology, vector ecology, data science, or a related field, with excellent verbal and written communication skills. Demonstrated proficiency with manipulation of diverse data formats, statistical modeling, and computer programming (e.g., in Python, R, and/or SQL) is required. Applicants should be highly motivated, able to perform independent research with minimal supervision, and have publications in internationally recognized English-language journals. Preferred skills include proficiency with command-line scripting, GIS software, spatial analysis, or analysis of raster data (e.g., multispectral aerial or satellite imagery).

QUALIFICATIONS

Basic qualifications (required at time of application)

- Ph.D. in epidemiology, vector ecology, data science, or a related field
- Excellent verbal and written communication skills
- Demonstrated proficiency with manipulation of diverse data formats, statistical modeling, and computer programming (e.g., in Python, R, and/or SQL)
- Highly motivated, able to perform independent research with minimal supervision, and have publications in internationally recognized English-language journals

Preferred qualifications

- Proficiency with command-line scripting, GIS software, spatial analysis, or analysis of raster data (e.g., multispectral aerial or satellite imagery)

APPLICATION REQUIREMENTS

Document requirements

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter (Optional)
- Statement of Research (Optional)
- Statement of Teaching (Optional)
- Statement of Contributions to Diversity, Equity, and Inclusion - Contributions to diversity, equity, and inclusion documented in the application file will be

used to evaluate applicants. Visit <https://academicaffairs.ucdavis.edu/faculty-equity-and-inclusion> for guidelines about writing a statement and why one is requested.

Reference requirements

- 3-5 required (contact information only)

Apply link: <https://recruit.ucdavis.edu/JPF04852>

Help contact: hphillips@ucdavis.edu

CAMPUS INFORMATION

UC Davis is a smoke and tobacco-free campus (<http://breathefree.ucdavis.edu/>).

We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals' with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community. For the complete University of California nondiscrimination and affirmative action policy see:

<http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct>

Under Federal law, the University of California may employ only individuals who are legally able to work in the United States as established by providing documents as specified in the Immigration Reform and Control Act of 1986. Certain UC Davis positions funded by federal contracts or sub-contracts require the selected candidate to pass an E-Verify check. More information is available at: <http://www.uscis.gov/e-verify>

The University of California, Davis (UC Davis) is committed to inclusive excellence by advancing equity, diversity and inclusion in all that we do. UC Davis celebrates the multi-cultural diversity of its community by creating a welcoming and inclusive environment demonstrated through a variety of resources and programs available to academics, staff, and students. Diversity, equity, inclusion, and belonging are core values of UC Davis that are embedded within our [Principles of Community](#) and are tied with how to best serve our student population. Our excellence in research, teaching, and service can best be fully realized by members of our academic community who share our commitment to these values, which are included in our [Diversity and Inclusion Strategic Vision](#), our strategic plan: "To Boldly Go," our Principles of Community, the [Office of Academic Affairs' Mission Statement](#), and the [UC Board of Regents Policy 4400: Policy on University of California Diversity Statement](#). UC Davis is making important progress towards our goal of achieving federal designation as a [Hispanic-Serving Institution and an Asian American, Native American, and Pacific Islander-Serving Institution](#). The [Office of Diversity, Equity, and Inclusion](#) offers a plethora of resources on their website, and the [Office of Health Equity, Diversity, and Inclusion \(HEDI\)](#) has outlined similar goals in their Anti-Racism and DEI Action Plan." There are a plethora of links available on the [About Us](#) webpage where you can learn more about our Administration, Diversity and Inclusion, Rankings, Locations, Native American Land Acknowledgement, Sustainability, Visiting UC Davis, UC Davis Health, and Campus Safety.

The university is consistently ranked among the top institutions in the world for campus sustainability practices by the [UI Green Metric World University Rankings](#). UC Davis is focused on achieving net-zero greenhouse gas emissions and repeatedly shown its [commitment to preserving a healthy and sustainable environment for generations to come](#).

As a condition of employment, you will be required to comply with the University of California [SARS-CoV-2 \(COVID-19\) Vaccination Program Policy](#). All Covered Individuals under the policy must provide proof of Full Vaccination or, if applicable, submit a request for Exception (based on Medical Exemption, Disability, and/or Religious Objection) or Deferral (based on pregnancy) no later than the applicable deadline. New University of California employees must (a) provide proof of receiving at least one dose of a COVID-19 Vaccine no later than 14 calendar days after their first date of employment and provide proof of Full Vaccination no later than eight weeks after their first date of employment; or (b) if applicable, submit a request for Exception or Deferral no later than 14 calendar days after their first date of employment. (Capitalized terms in this paragraph are defined in the policy.) Federal, state, or local public health directives may impose additional requirements.