

Postdoctoral Scholar Researcher Position in Experimental High Energy Physics at the University of California, Davis

Job #JPF05543

- PHYSICS / LETTERS AND SCIENCE: MATH/PHY SCI / UC Davis

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POSITION OVERVIEW

Salary range: The [posted UC salary scales](#) set the minimum pay determined by rank and/or step at appointment. See [Table 23: Postdoctoral Scholar-Employee, Postdoctoral Scholar-Fellow, Postdoctoral Scholar-Paid Direct, Fiscal Year](#). "Off-scale salaries", i.e., a salary that is higher than the published system-wide salary at the designated rank and step, are offered when necessary to meet competitive conditions, qualifications, and experience. A reasonable estimate for this position is \$60,000 - \$62,200.

APPLICATION WINDOW

Open date: February 17, 2023

Next review date: Thursday, Aug 31, 2023 at 11:59pm (Pacific Time)

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

Final date: Saturday, Feb 17, 2024 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 experimental high energy physics group at the University of California, Davis invites applications for a postdoctoral research position in experimental particle physics on the CMS experiment and the dedicated milliQan detector for millicharged particles at CERN. The CMS group at UC Davis comprises five faculty (Profs. Chertok, Citron, Conway, Erbacher, Mulhearn), one senior researcher, and a number of postdoctoral researchers and graduate students. Prof Citron also works on the milliQan detector.

The successful candidate will work under the supervision of Prof. Citron and is expected to play a leading role in searches for BSM long-lived particle (LLP) signatures as well as the HL-LHC Level 1 trigger upgrade at CMS. Prof. Citron's LLP search efforts make use of both non-standard reconstruction as well as the application of sophisticated machine learning techniques. In addition, there will be opportunities to contribute to searches for millicharged particles with milliQan and be involved in the design and construction of proposed future dedicated detectors, such as those at the proposed Forward Physics Facility at the LHC.

A Ph.D. in experimental high energy physics at the time of appointment is required. There is flexibility for the position to be based at UC Davis or at CERN. The appointment is initially for two years and renewable annually, subject to mutual satisfaction.

The position is open immediately and will remain open until filled. Interested candidates can apply by sending a cover letter, curriculum vitae, and statement of research interests and experience, all in PDF format, and arrange to have at least three letters of reference sent to the Department of Physics & Astronomy CMS Group at postdoc-lhc-2023@physics.ucdavis.edu

All inquiries should be directed to postdoc-lhc-2023@physics.ucdavis.edu

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HOW TO APPLY:

1. Apply online here: <https://recruit.ucdavis.edu/JPF05543>
2. Submit your application, including a Cover Letter, Statement of Research, and Curriculum Vitae with a list of publications
3. Arrange to have three Reference Letters sent via application link or to: postdoc-lhc-2023@physics.ucdavis.edu

Contact:

- UC Davis CMS Group: postdoc-lhc-2023@physics.ucdavis.edu

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QUALIFICATIONS

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Basic qualifications (required at time of application)

Candidates must have completed a Ph.D. in Experimental High Energy Physics or related area(s) prior to beginning employment.

Additional qualifications (required at time of start)

Candidate should have experience with various aspects of BSM long-lived particle (LLP) signatures, millicharged particles, and machine learning techniques.

Preferred qualifications

Experience being involved in the design and construction of small-scale detector experiments.

APPLICATION REQUIREMENTS

Document requirements

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter
- Statement of Research - Please note: This is a 4-page limit document and should include your statement of research interests and experience
- 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.
(Optional)

Reference requirements

- 3-5 letters of reference required

Apply link: <https://recruit.ucdavis.edu/JPF05543>

Help contact: postdoc-lhc-2023@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 [Policy on Vaccination Programs - With Updated Interim Amendments](#). All Covered Individuals under the policy must provide proof of receiving the COVID-19 Vaccine Primary Series or, if applicable, submit a request for Exception (based on Medical Exemption, Disability, Religious Objection, and/or Deferral based on pregnancy or recent COVID-19 diagnosis and/or treatment) no later than the applicable deadline. All Covered Individuals must also provide proof of receiving the most recent CDC-recommended COVID-19 booster or properly decline such booster no later than the applicable deadline. New University of California employees should refer to [Exhibit 2](#), Section II.C. of the [SARS-CoV-2 \(COVID-19\) Vaccination Program Attachment](#) for applicable deadlines. All Covered Individuals must also provide proof of being Up-To-Date

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on seasonal influenza vaccination or properly decline such vaccination no later than the applicable deadline. Please refer to the [Seasonal Influenza Vaccination Program Attachment](#). (Capitalized terms in this paragraph are defined in the policy.) Federal, state, or local public health directives may impose additional requirements.



JOB LOCATION

Davis, CA or CERN (Geneva, Switzerland)