

Postdoctoral Employee Particle Astrophysics
University of California Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=253445>

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Posted Feb. 18, 2025, set to expire Apr. 4, 2025

Job Title Postdoctoral Employee Particle Astrophysics
Department Nuclear Engineering Department
Institution University of California Berkeley
Berkeley, California

Date Posted Feb. 18, 2025

Application Deadline 04/04/2025

Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Nuclear
Engineering Physics

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Job Description

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Postdoctoral Employee Particle Astrophysics Nuclear Engineering Department

Position overview Position title: Postdoc

Salary range: The UC postdoc salary scales set the minimum pay determined by experience level at appointment. See the following table for the current salary scale 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 between \$66,737 and \$80,000.

Percent time:

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100%

Anticipated start: July 1, 2025

Position duration: Two years with the possibility of renewal depending on performance and availability of funding

Application Window

Open date: February 15, 2025

Next review date: Sunday, Mar 2, 2025 at 11:59pm (Pacific Time)

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

Final date: Friday, Apr 4, 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 van Bibber Lab at University of California, Berkeley (UCB) is accepting applications for a postdoctoral researcher in the area of particle astrophysics, and the search for ultralight dark matter, particularly the axion or axion-like particles.

Responsibilities:

The successful candidate will participate in one or more of several experimental ongoing dark matter searches within the van Bibber group (HAYSTAC, DM Radio, ALPHA, Green Bank Telescope data-mining, and supporting technology development). This work will involve R&D on novel microwave resonators, metamaterials, superconducting magnets, data analysis, and dissemination of results through publications and conference presentations. The postdoc will travel periodically for collaborative work at partner universities and laboratories. An important duty of the position is mentoring of undergraduate and graduate students in the group. The postdoc is expected to prepare research results for publication in peer-reviewed journals and provide presentation of research results at conferences/meetings.

Union: <https://ucnet.universityofcalifornia.edu/labor/bargaining-units/px/index.html>

Qualifications

Basic qualifications (required at time of application)

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PhD or equivalent international degree, or enrolled in a PhD or equivalent international degree granting program.

Additional qualifications (required at time of start)

PhD or equivalent international degree.

The candidate should have no more than three years of post-degree research experience.

Preferred qualifications

Ph.D. in Physics or Engineering, particularly Mechanical and Electrical Engineering.

Fields relevant to the research are Experimental Physics (especially particle physics, nuclear physics, astronomy, astrophysics, and quantum information science and technology), Mechanical Engineering (especially mechanical design), and Electrical Engineering (especially microwave engineering).

Proficiency in computing languages is essential (e.g. Python, MatLab), as is expertise with standard simulation codes (e.g. COMSOL, Microwave Studio, HFSS) or the ability to rapidly develop expertise in commercial codes.

Signal processing and statistical analysis of data are strongly preferred qualifications.

Application Requirements

Document requirements

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

Reference requirements

- 3 required (contact information only)

Apply link: <https://aprecruit.berkeley.edu/JPF04816>

Help contact: emartinez24@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

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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/Affirmative Action 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 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](#)

Job location

Berkeley, CA

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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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