Postdoctoral Employee - Scintillation Physics - Nuclear Engineering Department
University of California Berkeley

Job Title	Postdoctoral Employee - Scintillation Physics - Nuclear Engineering Department
Department	Nuclear Engineering Department
Institution	University of California Berkeley Berkeley, California
Date Posted	Jul. 9, 2025
Application Deadline	07/31/2025
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Nuclear
Apply Online Here	https://apptrkr.com/6358762
Apply By Email	

Job Description

Image not found or type unknown

Postdoctoral Employee - Scintillation Physics - Nuclear Engineering Department

Position overview

Position title: Postdoc Employee
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 $75,000 and $85,000.

Postdoctoral Employee - Scintillation Physics - Nuclear Engineering Department
University of California Berkeley

Percent time: 100%

Anticipated start: October 2025

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

Application Window
Open date: May 17, 2025

Next review date: Thursday, Jul 31, 2025 at 11:59pm (Pacific Time)
Apply by this date to ensure full consideration by the committee.

Final date: Thursday, Jul 31, 2025 at 11:59pm (Pacific Time)
Applications will continue to be accepted until this date.

Position description

The Bay Area Neutron Group (BANG). led by Dr. Bethany Goldblum, in the Department of Nuclear Engineering at the University of California, Berkeley welcomes applications for a postdoctoral scholar in the area of scintillation physics for radiation detection applications. The goal of this work, in collaboration with US DOE national laboratories, is the development of a theoretical framework to predict organic scintillator properties from the underlying molecular structure. Primary responsibilities for this position include the development of computational models to simulate scintillator properties using time-dependent density functional theory and Monte Carlo methods, analysis and interpretation of data to validate theoretical models, manuscript development, and communication of research at relevant scientific meetings. The successful candidate will work at the forefront of radiation detection science in a collaborative environment with experimentalists at the 88-Inch Cyclotron at Lawrence Berkeley National Laboratory.

Labor Contract: https://ucnet.universityofcalifornia.edu/labor/bargaining-units/px/index.html

Qualifications
Basic qualifications (required at time of application)
PhD or equivalent international degree, or enrolled in a PhD or equivalent international degree granting program.

Additional qualifications

Postdoctoral Employee - Scintillation Physics - Nuclear Engineering Department
University of California Berkeley

(required at time of start)

- Ph.D. or equivalent international degree
- The candidate should have no more than three years of post-degree research experience.

Preferred qualifications

- PhD or equivalent in Nuclear Engineering, Physics, Chemistry, Materials Science or related disciplines
- Demonstrated proficiency with computational modeling, e.g., DFT simulations, Monte Carlo methods
- Skills in C++ programming
- Superior academic performance
- Ability to be self-directed within broadly defined limits
- Excellent communication skills, both oral and written

Application Requirements

Document requirements

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

Reference requirements

- 3 required (contact information only)

Apply link: https://aprecruit.berkeley.edu/JPF04922

Help contact: leisa@berkeley.edu

About UC Berkeley

UC Berkeley is committed to diversity, equity, inclusion, and belonging in our public mission of research, teaching, and service, consistent with UC Regents Policy 4400 and University of California Academic Personnel policy (APM 210 1-d). These values are embedded in our Principles of Community , which reflect our passion for critical inquiry, debate, discovery and innovation, and our deep commitment to contributing to a better world. Every member of the UC Berkeley community has a role

Postdoctoral Employee - Scintillation Physics - Nuclear Engineering Department
University of California Berkeley

in sustaining a safe, caring and humane environment in which these values can thrive.

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.

For more information, 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.

- "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 or discrimination, as defined by the employer.
- UC Sexual Violence and Sexual Harassment Policy
- UC Anti-Discrimination Policy
- APM - 035: Affirmative Action and Nondiscrimination in Employment

Job location
Berkeley, CA

Postdoctoral Employee - Scintillation Physics - Nuclear Engineering Department
University of California Berkeley

To apply, visit https://aprecruit.berkeley.edu/JPF04922

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
,