Postdoctoral Scholar Employee - Reactor Physics - Nuclear Engineering
University of California Berkeley

Job Title	Postdoctoral Scholar Employee - Reactor Physics - Nuclear Engineering
Department	Nuclear Engineering
Institution	University of California Berkeley Berkeley, California
Date Posted	Mar. 14, 2025
Application Deadline	04/23/2025
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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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

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reasonable estimate for this position is between $66,737 and $80,000.

Percent time: 100%

Anticipated start: Spring 2025

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

Application Window
Open date: March 13, 2025

Most recent review date: Friday, Mar 28, 2025 at 11:59pm (Pacific Time)
Applications received after this date will be reviewed by the search committee if the position has not yet been filled.

Final date: Wednesday, Apr 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 Nuclear Engineering Department at the University of California, Berkeley is seeking a Postdoctoral Employee to perform nuclear data validation and experimental reactor physics benchmarking analyses. In 2020 the PETALE experiment was conducted at the CROCUS reactor at EPFL in Switzerland. This position will create a benchmark evaluation for the International Criticality Safety Benchmark Evaluation Project to be submitted in 2026. The PETALE experiment specifically targeted cross-section data associated with metals used in nuclear reactors (Fe, Cr, etc.).

The work will mostly consist of creating detailed neutronics models of the CROCUS reactor and the specific modifications for PETALE. The position will require extensive traveling to Lausanne, Switzerland to communicate with researchers as part of the benchmark evaluation process. Other responsibilities will include mentoring undergraduate and graduate students and preparing the results of research for publication. The successful candidate will also have the opportunity to give occasional guest lectures.

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

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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 (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

- Extensive experience in reactor physics and experimental analyses.
- Use of radiation transport codes, especially MCNP, Serpent, OpenMC, or an equivalent code.
- Experience with uncertainty quantification methods. Experience with computer programming (Python, C++).
- Demonstrated writing experience in journal publications and technical reports.

Application Requirements

Document requirements

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

Reference requirements

- 3 required (contact information only)

Apply link: https://aprecruit.berkeley.edu/JPF04838

Help contact: jspitzer@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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To apply, visit https://aprecruit.berkeley.edu/JPF04838

Contact Information

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

Contact

N/A
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