

# Rock Physics Postdoctoral Scholar

Job #JPF01852

- Earth & Planetary Sciences / Physical & Biological Sciences Division / UC Santa Cruz

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## POSITION OVERVIEW

**Position title:** Rock Physics Postdoctoral Scholar

**Salary range:** Commensurate with qualifications and experience. The posted [UCSC salary scales](#) set the minimum pay based on the individual's **Experience Level**, which is determined by the number of months of postdoctoral service at any institution. See the salary scale titled, *Postdoctoral Scholar-Employee / Postdoctoral Scholar-Fellow / Postdoctoral Scholar-Paid Direct -Fiscal Year*. A reasonable estimate for this position is \$66,737 - \$80,034.

**Percent time:** Full-time (100%)

**Anticipated start:** As soon as possible after the initial review of applications. Ph.D. must be in hand at the time of initial appointment.

**Position duration: Maximum Duration of Service in a Postdoctoral Title-** Postdoctoral Scholar appointments are full-time and the initial appointment is for a minimum of two years, with the possibility of reappointment. The total duration of an individual's postdoctoral service may not exceed five years, including postdoctoral service at any institution.

## APPLICATION WINDOW

**Open date:** December 11, 2024

**Next review date:** Friday, Jan 10, 2025 at 11:59pm (Pacific Time)

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

**Final date:** Tuesday, Apr 1, 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

UC Santa Cruz, in conjunction with the [SEES consortium](#) is seeking a highly motivated postdoctoral researcher with expertise in X-ray imaging and/or rock physics/rock mechanics, who will work under the direction of Professor Quentin Williams. The position will be on-site in Berkeley, California.

The postdoctoral researcher will contribute scientific and technical skills to synchrotron research projects in the area of rock mechanics/deformation at the Lawrence Berkeley National Laboratory (LBNL) Advanced Light Source's microtomography beamline 8.3.2. The possibility exists for additional collaborations at micro-Laue diffraction beamline 12.3.2, which includes capabilities such as texture analysis and grain orientation. This role involves designing, executing and writing-up experiments, generating technical innovations and equipment modifications, and collaborating with synchrotron users to support a range of geological research projects. As a result, the position will require the postdoctoral researcher to consistently demonstrate excellent communication skills (both written and verbal).

We particularly seek applicants with prior expertise in X-ray imaging (and particularly tomography) of inorganic samples, optimally with instrument or software development experience. Experience in rock physics/rock mechanics is desirable. Familiarity with image analysis/processing (including multi-dimensional) is particularly preferred.

**The hiring unit will not sponsor employment-eligible immigration statuses for this position.**

**SEES Consortium:** <https://seescience.org>

**Earth and Planetary Sciences Department:** <https://eps.ucsc.edu/>

## QUALIFICATIONS

**Basic qualifications** (required at the time the application is submitted)

- Demonstrated experience with scientific instrumentation, including data analysis methods.
- Demonstrated record of collaborative work that establishes the interpersonal skills necessary to thrive in a highly cooperative environment.
- Demonstrated record of peer-reviewed, scientific publications on X-ray imaging techniques and/or rock mechanics/physics.

**Additional qualifications** (required at the time of appointment)

- A Ph.D. (or equivalent foreign degree) in the physical sciences or engineering disciplines, or a related discipline. Degree must be in hand at the time of initial appointment.

## APPLICATION REQUIREMENTS

### Document requirements

- Curriculum Vitae - Your most recently updated C.V., which must include a list of publications. Please include DOI links or the URLs of PDFs for any publications listed on your CV.

Your CV must also include three professional references along with their contact information. The search committee will contact the references of those applicants who are under serious consideration.

- Cover Letter - A letter that summarizes your qualifications (previous research experience, relevant skills), and interest in the position.
- Statement of Research

Apply link: <https://recruit.ucsc.edu/JPF01852>

Help contact: [amylkorn@ucsc.edu](mailto:amylkorn@ucsc.edu)

## ABOUT UC SANTA CRUZ

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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](#)

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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 UCSC positions funded by federal contracts or sub-contracts require the selected candidate to pass an [E-Verify check](#). The university sponsors employment-based visas for nonresidents who are offered academic appointments at UC Santa Cruz, as outlined in campus policy [CAPM 102.530](#).

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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.

VISIT [UC Santa Cruz](#)

## JOB LOCATION

Lawrence Berkeley National Laboratory (LBNL)