

**Systems Administrator (4471C) - Berkeley Seismological
Lab
University of California, Berkeley**

Direct Link: <https://www.AcademicKeys.com/r?job=258184>

Downloaded On: Jun. 14, 2025 12:06am

Posted Jun. 12, 2025, set to expire Jul. 1, 2025

Job Title	Systems Administrator (4471C) - Berkeley Seismological Lab
Department	Berkeley Seismological Lab
Institution	University of California, Berkeley Berkeley, California
Date Posted	Jun. 12, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Information Technology
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Job Description

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Systems Administrator (4471C) - Berkeley Seismological Lab

About Berkeley

At the University of California, Berkeley, we are dedicated to fostering a community where everyone feels welcome and can thrive. Our culture of openness, freedom and belonging make it a special place for students, faculty and staff.

As a world-leading institution, Berkeley is known for its academic and research excellence, public mission, diverse student body, and commitment to equity and social justice. Since our founding in 1868, we have driven innovation, creating global intellectual, economic and social value.

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We are looking for applicants who reflect California's diversity and want to be part of an inclusive, equity-focused community that views education as a matter of social justice. Please consider whether your values align with our [Guiding Values and Principles](#), [Principles of Community](#), and [Strategic Plan](#).

At UC Berkeley, we believe that learning is a fundamental part of working, and provide space for [supportive colleague communities via numerous employee resource groups](#) (staff organizations). Our goal is for everyone on the Berkeley campus to feel supported and equipped to realize their full potential. We actively support this by providing all of our full-time staff employees with at least 80 hours (10 days) of paid time per year to engage in professional development activities. Find out more about how you can [grow your career](#) at UC Berkeley.

Departmental Overview

The Berkeley Seismological Laboratory (BSL) operates a network of geophysical instrumentation across Northern and Central California. The data collected is analyzed in real-time to produce Earthquake Early Warnings as well as archived for research purposes. The MyShake app delivers earthquake early warning messages to the public on smartphones located in California, Oregon, and Washington. It also collects earthquake experience information from users and provides information about recent earthquakes worldwide.

This position exists for the deployment and operational support of cloud-based backend software and systems that serve smart phone applications such as MyShake, as well as for the deployment and operational needs of other cloud-based BSL projects.

Application Review Date

The First Review Date for this job is: April 24, 2024 - Open Until Filled

Responsibilities

30% - Monitors and troubleshoots the overall health of cloud-based backend software and systems, performing any daily operational procedures that are not automated. Includes on-call responsibilities along with the continual development of appropriate dashboards and monitoring. Determine and solve load-related issues on the backend, including preemptive scaling to avoid performance degradation.

20% - Designs and executes performance, integration, and regression testing before coordinating the deployment of backend and app releases. Automates appropriate build, testing, and deployment pipelines. Proposes and implements system enhancements that will improve the performance and

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reliability of the system.

15% - Designs and deploys configured implementations of the backend, bridging the gap between development and operations. Participates in project architecture and design decisions, especially as they pertain to maintainability, scalability, and reliability.

10% - Interacts with senior level internal personnel along with other project team members, to include the training/assisting of local users in the use of custom tools, environments, and datasets.

10% - Provides analysis for the design and use of databases within the project, recommends and implements changes in deployment and system standards, and applies industry best practices and department policies to these efforts.

5% -Gathers, analyzes, prepares documentation, especially as it pertains to operational support.

10% - Other tasks as assigned.

Required Qualifications

- Bachelor's degree in related area and / or equivalent experience / training.
- Advanced IT operational support skills and thorough knowledge of cloud-based (AWS) backend platforms.
- Advanced skills regarding platform design, testing, configuration, deployment, monitoring, and troubleshooting.
- Advanced programming skills.
- Thorough understanding and experience with systems-related issues under Linux and actions that can be taken to improve or correct performance.
- Demonstrated skills associated with adapting equipment and technology to serve project needs with a comprehensive understanding of how system management actions affect other systems, services, and dependent / related functions.
- Must have proficient knowledge of and experience with SQL databases such as MariaDB/PostgreSQL.
- Self-motivated and works independently and as part of a team. Demonstrates problem-solving skills.
- Able to learn effectively and meet deadlines.
- Interpersonal skills in order to work with both technical and non-technical personnel at various levels in the organization.

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Preferred Qualifications

- Experience automating deployment pipelines highly desired.
- Experience with Python and shell scripting desired.
- Knowledge of and experience with other databases, such as Redis and MongoDB desired.
- Knowledge of and experience with message brokers, such as Kafka, preferred.
- Knowledge of and experience with cloud-based messaging, such as Google Firebase Cloud Messaging and Apple Push Notification, preferred.
- Ability to write technical documentation in a clear and concise manner.

Salary & Benefits

For information on the comprehensive benefits package offered by the University, please visit the University of California's [Compensation & Benefits](#) website.

Under California law, the University of California, Berkeley is required to provide a reasonable estimate of the compensation range for this role and should not offer a salary outside of the range posted in this job announcement. This range takes into account the wide range of factors that are considered in making compensation decisions including but not limited to experience, skills, knowledge, abilities, education, licensure and certifications, analysis of internal equity, and other business and organizational needs. It is not typical for an individual to be offered a salary at or near the top of the range for a position. Salary offers are determined based on final candidate qualifications and experience.

The budgeted salary or hourly range that the University reasonably expects to pay for this position is \$113,897.89 to \$139,748.59 yearly (\$9,491.49 to \$11,645.72 monthly). This is a 100% FTE career position eligible for full benefits. This position is FLSA Exempt and paid monthly.

Other Information

This position is in-person, on campus.

This is not a visa opportunity.

Conviction History Background

This is a designated position requiring fingerprinting and a background check due to the nature of the

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job responsibilities. Berkeley does hire people with conviction histories and reviews information received in the context of the job responsibilities. The University reserves the right to make employment contingent upon successful completion of the background check.

Misconduct Disclosure

As a condition of employment, the final candidate who accepts a conditional offer of employment will be required to disclose if they have been subject to any final administrative or judicial decisions within the last seven years determining that they committed any misconduct; received notice of any allegations or are currently the subject of any administrative or disciplinary proceedings involving misconduct; have left a position after receiving notice of allegations or while under investigation in an administrative or disciplinary proceeding involving misconduct; or have filed an appeal of a finding of misconduct 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. For reference, below are UC's policies addressing some forms of misconduct:

[UC Sexual Violence and Sexual Harassment Policy](#)

[UC Anti-Discrimination Policy](#)

[Abusive Conduct in the Workplace](#)

Equal Employment Opportunity

The University of California 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, or protected veteran status. For more information about your rights as an applicant, please see the [U.S. Equal Employment Opportunity Commission](#) poster.

The [University of California's Affirmative Action policy](#).

The [University of California's Anti-Discrimination policy](#).

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To apply, visit

https://careerspub.universityofcalifornia.edu/psc/ucb/EMPLOYEE/HRMS/c/HRS_HRAM_FL.HRS.CG_S

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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