Applications Developer (0652U), Research Teaching and Learning - 72815
University of California, Berkeley

Job Title	Applications Developer (0652U), Research Teaching and Learning - 72815
Department	
Institution	University of California, Berkeley Berkeley, California
Date Posted	Sep. 26, 2024
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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About Berkeley

At the University of California, Berkeley, we are committed to creating a community that fosters equity of experience and opportunity, and ensures that students, faculty, and staff of all backgrounds feel safe, welcome and included. Our culture of openness, freedom and belonging make it a special place for students, faculty and staff.

The University of California, Berkeley, is one of the world's leading institutions of higher education, distinguished by its combination of internationally recognized academic and research excellence; the

transformative opportunity it provides to a large and diverse student body; its public mission and commitment to equity and social justice; and its roots in the California experience, animated by such values as innovation, questioning the status quo, and respect for the environment and nature. Since its founding in 1868, Berkeley has fueled a perpetual renaissance, generating unparalleled intellectual, economic and social value in California, the United States and the world.

We are looking for equity-minded applicants who represent the full diversity of California and who demonstrate a sensitivity to and understanding of the diverse academic, socioeconomic, cultural, disability, gender identity, sexual orientation, and ethnic backgrounds present in our community. When you join the team at Berkeley, you can expect to be part of an inclusive, innovative and equity-focused community that approaches higher education as a matter of social justice that requires broad collaboration among faculty, staff, students and community partners. In deciding whether to apply for a position at Berkeley, you are strongly encouraged to consider whether your values align with our Guiding Values and Principles, our Principles of Community, and our Strategic Plan.

At UC Berkeley, we believe that learning is a fundamental part of working, and 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 staff employees with at least 80 hours (10 days) of paid time per year to engage in professional development activities. To find out more about how you can grow your career at UC Berkeley, visit grow.berkeley.edu.

Departmental Overview

Research, Teaching, and Learning (RTL) supports the teaching and research needs of Berkeley faculty, students, and academic staff by offering expert consulting, providing vetted tools and essential services, and advocating for its broad constituency and mission-focused portfolio with campus policy makers and vendors. The combination of enterprise teaching and research technology groups within RTL improves coordination across functions; provides a richer, more seamless experience for end users; and creates opportunities for innovation.

Position Summary

The person in this position will develop, maintain, and deploy software in a cloud-based infrastructure. The software is based on Project Jupyter, which gives end-users access to computational environments and resources without burdening them with installation and maintenance tasks. At UC Berkeley, the software runs using Kubernetes on the Google Cloud Platform (GCP). The person in this position must frequently collaborate with the Jupyter Project open-source communities on and off

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campus. In addition, the person in this position must develop and maintain best practices such as Infrastructure as Code, CI/CD, etc. The person in this position must help deploy and maintain monitoring -infrastructure such as Prometheus, Grafana, etc. This person is expected to advise campus leadership on costs and budgetary policy for cloud infrastructure spending.

Application Review Date

The First Review Date for this job is: 10/08/2024.

Responsibilities

- Develop and maintain Kubernetes-based cloud infrastructure on Google Cloud Platform (GCP) services for running JupyterHub-based data science environments.
- Develop and contribute meaningful and significant improvements to the JupyterHub codebase.
- Development needs to benefit both the campus JupyterHub instance as well as the greater JupyterHub community.
- Develop and maintain best practices (Infrastructure as Code, CI/CD, etc) for keeping the cloud infrastructure running reliably.
- Deploy and maintain monitoring infrastructure (Prometheus, Grafana) for tracking the JupyterHub software.
- Responsible for creating and maintaining technical documentation for all aspects of the campus' JupyterHub deployment.
- Determines source code control techniques and configuration management design and changes. Specifies, develops, and executes complex test plans.
- Work with the JupyterHub open-source communities (on and off campus) to collaboratively maintain the JupyterHub software.
- Work with campus leadership on designing and enforcing budgetary policy for cloud infrastructure spending.

Required Qualifications

- Proven experience developing and maintaining secure and highly scalable software systems.
- Experience with Docker containers, particularly Docker image building and management.
- Experience working with (or advanced knowledge of) containerized computing environments using container orchestration platforms like Kubernetes.
- Advanced skills associated with software specification, design, modification, implementation and deployment of large-scale compute platforms.

- Ability to work in a multi-stakeholder open-source environment -particularly, something similar to the JupyterHub ecosystem.
- Demonstrated ability to understand functional requirements for highly-scalable compute platforms.
- Experience writing code of moderate to advanced complexity in Python.
- Advanced experience with identification and uses of software libraries and open-source forums.
- Demonstrated experience with dependency management tools, such as Conda, Pip, etc.
- Advanced experience with planning for deployment and creation of feedback mechanisms.
- Demonstrated experience working with software repository skills.
- Experience developing and executing complex test plans.
- Demonstrated effective communication and interpersonal skills.
- Demonstrated ability to communicate technical information to technical and non-technical personnel at various levels in the organization.
- Self-motivated and works independently and as part of a team.
- Bachelor's degree in related area and/or equivalent experience/training.

Preferred Qualifications

- Prior experience with the Jupyter and JupyterHub ecosystems.
- Experience managing CI/CD pipelines.
- Experience architecting, deploying, and managing cloud systems.
- Experience with the package management ecosystem in the R programming language (CRAN, etc).
- Experience with monitoring solutions (such as Prometheus and Grafana).

Salary & Benefits

This is a 100% full-time (40 hrs a week) exempt career position, which is paid monthly and eligible for UC Benefits.

For information on the comprehensive benefits package offered by the University, please visit the University of California's Compensation & Benefitswebsite.

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 annual salary that the University reasonably expects to pay for this position is $130,000.00 - $142,000.00.

How to Apply

- To apply, please submit your resume and cover letter.

Other Information

- This is not a visa opportunity.
- This position is eligible for up to 100% remote work

Conviction History Background

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

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 https://apptrkr.com/get_redirect.php?id=5671641&targetURL=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

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University of California, Berkeley

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