Scientific Software Developer (0652U) 70365
University of California, Berkeley

Job Title	Scientific Software Developer (0652U) 70365
Department	
Institution	University of California, Berkeley
	Berkeley, California
Date Posted	Jul. 23, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Computer/Information Sciences
	Geology - GIS
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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,

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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

Launched in 2022 the Eric and Wendy Schmidt Center for Data Science and Environment (DSE) at Berkeley is a partnership between UC Berkeley's Rausser College of Natural Resources (RCNR) and the College of Computing, Data Science, and Society (CDSS), with the financial support of Eric and Wendy Schmidt. The Center combines the power of computing and environmental science with open science principles and a commitment to inclusivity - all towards the purpose of building tangible, replicable, and accessible solutions to problems compromising the health of our environment. Team members in the Center co-create these solutions in direct partnership with those who hold the knowledge and expertise of their local needs and environmental context.

Position Summary

We aim to contribute to the global community who are similarly working to take on these challenges in four key areas:

- Generating ground-breaking computational/data science discoveries motivated by pressing environmental questions;
- Producing scalable solutions to critical threats facing the environment, powered by open-source tools;
- Deploying these solutions widely, taking advantage of modern cloud infrastructure and open data/open software, and maintaining a design philosophy of vendor neutrality to ensure that community needs are prioritized;
- Creating an enhanced pipeline of young environmental leaders connected to local communities and organizations to meet their needs and translate our research findings and technological developments into practical impacts.

The Scientific Software Developer will play a critical role working to design and build geospatial applications in the Jupyter software ecosystem. The incumbent will be a seasoned software developer with interest and experience in developing open source mapping applications.

Application Review Date

The First Review Date for this job is 07/05/2024.

Responsibilities

Applies advanced software experience and understanding to plan, design, develop, modify, debug, deploy and evaluate open-source software for juypter, this includes:

- Working with a team of collaborators to envision Jupyter based open source software prototypes that address spatial questions.
- Iteratively developing those prototypes with stakeholder feedback.
- Publishing and sharing the prototypes with potential users.

Other Duties Assigned

- Understands and applies industry practices, open-source community standards and department policies and procedures in depth.
- May serve as technical lead for multiple software development projects of moderate to broad scope.
- Specifies, develops and executes complex test plans.

- Determines source code control techniques and configuration management design and changes.
- Initiates and oversees changes in development, maintenance and system standards.
- Sets the technical requirements for complex software specifications.

Required Qualifications

- Advanced knowledge of open-source software development.
- Highly advanced skills associated with software specification, design, modification, implementation and deployment of large-scale scope.
- Excellent project leadership and management skills.
- Demonstrated ability to understand functional needs and how systems can support those needs.
- Demonstrated ability to develop conversion and system implementation plans.
- Advanced experience with identification and use of code libraries and open-source forums.
- Advanced experience with planning for deployment and creation of feedback mechanisms.
- Demonstrated 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.
- Able to learn effectively and meet deadlines.
- Demonstrated complex problem- solving skills.
- Bachelor's degree in related area and/or equivalent experience/training.

Preferred Qualifications

- Experience and interest in GIS and geospatial mapping applications.

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.

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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 $95,300.00 - $128,000.00.

How to Apply

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

Other Information

- This is not a visa opportunity.
- DSE supports flexible working arrangements for this position, including onsite and remote options.

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=5385217&targetURL=U.S. Equal Employment Opportunity Commission poster.

The University of California's Affirmative action policy.

The University of California's Anti-Discrimination policy.

To apply, visit
https://careerspub.universityofcalifornia.edu/psc/ucb/EMPLOYEE/HRMS/c/HRS_HRAM_FL.HRS_CG_S

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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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