

Computational and Data Science Specialist I (4269U) -  
71065  
University of California, Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=242560>

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Posted Aug. 2, 2024, set to expire Nov. 28, 2024

<b>Job Title</b>	Computational and Data Science Specialist I (4269U) - 71065
<b>Department</b>	
<b>Institution</b>	University of California, Berkeley Berkeley, California
<b>Date Posted</b>	Aug. 2, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Professional Staff
<b>Academic Field(s)</b>	Information Technology
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**Job Description**

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**Computational and Data Science Specialist I (4269U) - 71065**

**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

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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](http://grow.berkeley.edu).

### Departmental Overview

The Department of Environmental Science, Policy, and Management (ESPM) is a multidisciplinary program that recognizes the urgency and significance of our current environmental challenges, and the enormous opportunities that will lead to transformative change.

We have award-winning faculty in climate science, biodiversity, environmental policy, land use, and community outreach - all driven by a collective interest in our environmental future.

At Berkeley, ESPM is the campus portal to environmental research and issues. Berkeley is founded on the principle of knowledge for the public good. Our department builds on this promise.

### Position Summary

This position is supporting the grant "Mountain Community Affordable Workforce Housing with Mass Timber Components". This project will develop affordable workforce housing designs that will fit the needs of mountain community workforces. Designs will include mass timber elements and they will be

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designed to be permitted in the areas for which they are intended.

As part of the grant, the employee will be expected to learn under supervision about affordable housing in California, mass timber construction made from local materials. The knowledge gathered, coupled with available data will be combined in a computational model for data analysis and representation to gain insight from available data.

### **Application Review Date**

The First Review Date for this job is: 08/01/2024.

### **Responsibilities**

- Under direct supervision, creates or utilizes basic software tools to analyze or interpret research data of limited scope and complexity.
- Build an interactive data-driven map of housing stock and affordability in California using available online housing data, with a focus on key mountain communities.
- Under direct supervision or collaboration with peers, utilizes basic algorithms, techniques, AI and statistical methodologies to conduct predictive analytics, or generate insights.
- Based on the interactive map, model and predict best housing solutions for mountain communities, such as square footage, floor plan and designs.
- Assists with data science research to contribute to proposals for other researchers and Principal Investigator (PI) s from the organization.
- This includes the creation and implementation of existing research by other researchers for the purpose of the grant on housing affordability.
- Creates, maintains, documents and utilizes computer programs of limited algorithmic complexity and scale, such as parametric design in Rhino3D Grasshopper environment.
- Learn about topics related to the grant objectives such as mass timber construction, forestry, and affordable housing as it relates to California.

### **Required Qualifications**

- Basic knowledge of HPC/data science/CI.
- Basic knowledge of applications programming and web development, database and data systems, statistical methods and tools, and modern biology and applicable field of research.
- Basic knowledge of one of the following: Scalable systems, distributed systems, or systems performance.

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- Ability to communicate technical information in a clear and concise manner, especially to a non-technical audience.
- Ability to effectively manage time and see assigned parts of projects through to completion on deadline.
- Self-motivated and works independently and as part of a team.
- Interpersonal skills in order to work with both technical and non-technical personnel at various levels in the organization, and to iteratively improve data science methodologies working with biomedical domain experts.
- Bachelor's degree in Computer/Computational/Data Science, or Domain Sciences with computer/computational/data specialization applied to Architectural Design and/or equivalent experience/training.

### Salary & Benefits

This is a 12-month, 80% (32 hours/week), contract appointment, eligible for UC benefits with the possibility of extension with continued funding. This is a non-exempt, hourly paid position.

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 \$34.77 - \$40.00.

### How to Apply

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

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### Other Information

- 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 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=5480838&targetURL=U.S. Equal Employment Opportunity Commission](https://apptrkr.com/get_redirect.php?id=5480838&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](https://careerspub.universityofcalifornia.edu/psc/ucb/EMPLOYEE/HRMS/c/HRS_HRAM_FL.HRS.CG_S)

### Contact Information



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

**Contact**

N/A

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