

IT Architect 4 (0531U) Job 78421 - Berkeley Institutes for  
Data Science (BIDS)  
University of California, Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=257228>

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Posted May 21, 2025, set to expire Jul. 1, 2025

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| <b>Job Title</b>            | IT Architect 4 (0531U) Job 78421 - Berkeley Institutes for Data Science (BIDS) |
| <b>Department</b>           | Berkeley Institutes for Data Science   |
| <b>Institution</b>          | University of California, Berkeley<br>Berkeley, California                     |
| <b>Date Posted</b>          | May 21, 2025   |
| <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   |
| <b>Apply Online Here</b>    | <a href="https://apptrkr.com/6240684">https://apptrkr.com/6240684</a>          |

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**Job Description**

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**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

Berkeley Institutes for Data Science (BIDS) is a home for data-intensive research, open-source software, & data science training programs and is an integral part of UC Berkeley's College of Computing, Data Science, and Society (CDSS). Our programs and initiatives are designed to facilitate collaboration across an increasingly diverse and active data science community of domain experts from the life, social, and physical sciences, as well as methodological experts from computer science, statistics, and applied mathematics. Since its launch in 2013, BIDS has cultivated an environment of open inquiry and discovery for data-intensive research.

This position plays a critical role in shaping and sustaining open, collaborative computing environments that support cutting-edge research and campus-wide technology initiatives at UC Berkeley and beyond. This is funded through the Open Platform for Powering Science and Society (OPPSS) Initiative [<https://cdss.berkeley.edu/news/berkeley-launches-agile-metabolic-health-and-open-platforms-initiative>], the role blends strategic technical planning with hands-on development and system design to support platforms like JupyterHub, JupyterHealth, JupyterLab, MyST, and related open-source tools.

The successful candidate brings a deep understanding of both research-driven software needs and long-term infrastructure strategies, ensuring that campus and global open science communities have reliable, extensible, and future-ready environments. This role also involves investigating emerging technologies, contributing to community-driven projects, and advising leadership on how to align evolving technical capabilities with institutional and cross-institutional goals.

## Application Review Date

The First Review Date for this job is: 6/2/25 or until filled

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## Responsibilities

25% - Designs and prototypes workflows to translate Jupyter-based research applications into secure, clinician-facing EHR-integrated applications using SMART on FHIR standards. Builds tools and templates inspired by Binder to support packaging, testing, and deployment of visualizations and algorithms in research and/or clinical environments.

15% - Collaborates with researchers & students to plan, develop, and deploy scientific software aligned with best practices in research computing. Leads efforts to apply modern tools and workflows that promote reproducibility, sustainability, and cross-disciplinary usability. Is accountable for maintaining high-quality, tested, and well-documented code across the tools and platforms they steward.

15% - Develops new capabilities in key parts of the Jupyter ecosystem, including JupyterHub, JupyterLab, JupyterHealth, and MyST, to advance the state of the art in open, collaborative and reproducible research across scientific disciplines, with emphasis on topics central to the mission of BIDS and related campus centers.

15% - Leads community and sustainability efforts for the JupyterHealth open-source platform. Manages GitHub repositories, documentation, contribution workflows, and onboarding resources to foster an inclusive and scalable open-source project. Collaborates with stakeholders to promote adoption, build community engagement, and ensure long-term viability of the platform.

10% - Supports the deployment of open systems for hosted computing environments in the Jupyter ecosystem. Often serves as advisor to deployments, on and off campus. Consults during planning stages to design and implementation.

10% - Maintains and develops the open source JupyterHub ecosystem of deployment tools for open and reproducible software. Reviews and supports open source contributions. Mentors new and aspiring contributors. Develops the JupyterHub contributor and user communities.

5% - Applies advanced IT architecture concepts to function as the highest level technical expert. Often serves as consultant to management. May lead or provide guidance to large development team in design of highly complex software systems. Advises on selection of technological choices with regards to deploying and hosting software services, and publishing computational communications.

5% - Supports packaging and deployment of research software. Contributes to public infrastructure via Github and conda-forge. Advises research groups on packaging and distributing research software, including via PyPI, conda, container images, etc.

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### Required Qualifications

- Expert knowledge of the Jupyter software ecosystem, JupyterHub in particular, demonstrated by extensive contributions to Jupyter.
- Advanced knowledge of deployment technologies, including Kubernetes, containers, and cloud services.
- Demonstrated effective communication and interpersonal skills, including the ability to communicate technical information to technical and non-technical personnel at various levels in the organization.
- Ability to understand user needs and how software systems can support those needs.
- Demonstrated ability to work with others from diverse backgrounds.
- Self-motivated and work independently and as part of a team. Demonstrates problem solving skills. Able to learn effectively and meet deadlines.
- May require skills in web software, web software language and object-oriented software concepts. May require knowledge of network protocols and how they are used on a large (campus / medical center / OP-wide, institution-wide or beyond) network. May require advanced knowledge of data storage, processing analysis and visualization technologies and how they are used in administrative and / or academic endeavors at a large, top-tier research university or medical center.
- Demonstrated ability to translate user-group needs into long-term architecture solutions. Expertise relating to the design and development of software across the organization.
- Bachelor's degree in related area and / or equivalent experience / training.

### Preferred Qualifications

- Experience deploying applications in healthcare systems or Health IT standards such as SMART-on-FHIR
- Experience teaching or mentoring students in programming and open source contributions.
- Experience packaging and distributing scientific software and publications via technologies such as conda and containers
- Experience deploying and operating computing infrastructure for broad use cases
- PhD in related area and / or equivalent experience / training
- 10 years experience working with Jupyter-related technology
- 5 years experience working with deployment technologies such as Kubernetes
- 10 years experience in open source development
- 5 years experience teaching or mentoring students

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## **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 \$177,500 - 233,900.

## **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.

## **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

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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 Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or other protected status under state or federal law.

**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**

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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