

Lab Mechanician Helper (8654C) - Civil & Environmental
Engineering
University of California, Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=243049>

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Posted Aug. 13, 2024, set to expire Dec. 10, 2024

Job Title	Lab Mechanician Helper (8654C) - Civil & Environmental Engineering
Department	
Institution	University of California, Berkeley Berkeley, California
Date Posted	Aug. 13, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Research/Technical/Laboratory
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Job Description

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Lab Mechanician Helper (8654C) - Civil & Environmental Engineering

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.

Departmental Overview

The Department of Civil and Environmental engineering (CEE) is a complex academic department within the College of Engineering. The Department is composed of 7 graduate programs: Structural Engineering, Mechanics and Materials; Environmental Engineering; Transportation Engineering; Engineering and Project Management; Geosystems; Systems Engineering; and Energy, Civil Infrastructure and Climate.

In 2023, CEE was ranked first in the nation for both its undergraduate and graduate programs. The Department consists of 45 faculty, 400 graduate and 400 undergraduate students, and 21 staff plus numerous emeriti, lecturers, and visiting scholars.

This position will serve as the primary support to the experimental facilities of the Department of Civil and Environmental Engineering, faculty and student research projects, service to industry projects and Students' Shop of the department band provide as needed assistance to the electronic shop and concrete lab. Students' Shop is primarily oriented toward servicing students' needs and consists of welding, machining, and fabrication areas. The incumbent utilizes equipment in these areas to instruct

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the students. Provides technical support for new and existing instructional, research, and service to industry apparatus. Also performs functional design and assembly of new experimental setups. Provide hands-on training to students on the safe and proper use of equipment within the CEE's experimental facilities and Students' Shop. Design, build, maintain, and assess the functionality of experiments within the CEE's experimental facilities and Students' Shop. Provide support for both undergraduate and graduate students engaged in welding activities, making machined parts and assemblies for class-assigned projects, student group projects, and to support research projects. Some minor fabrication support is required for service to industry projects. Follows all safety procedures required by the university, department, Cal OSHA, and EH&S procedures and policies.

This is a 100% FTE, limited term appointment covering a leave of absence and will not convert to a career appointment if it exceeds 1,000 hours in a rolling 12-month period.

[A limited appointment is established at any percentage of time, fixed or variable, during which the appointee is expected to be on pay status for less than 1,000 hours in a rolling 12-month period. The automatic conversion to career will not occur when an employee who was hired as a replacement for another person who is on an extended leave that exceeds one thousand 1,000 hours.]

Application Review Date

The First Review Date for this job is: August 21, 2024

Responsibilities

75% Under supervision, supports CEE's Experimental Facilities

- Provide technical support to instructional activities, research and service to industry projects.
- Perform functional design, fabrication, modification, setup, demolition, and technical support of new and existing instructional or research apparatus from sketches, schematic drawings, blueprints, and oral instructions.
- Perform testing of equipment, and verification of equipment's functionality.
- Maintain, troubleshoot problems, and repair equipment in CEE's experimental facilities, Students' Shop, and pump room hydraulics.
- Assist in the research for new laboratory equipment needed, including specifications, cost, and availability.
- Answer questions, provide accurate technical information and provide technical trouble-shooting during the instructional or research experiments within the course laboratory components.

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15% Welding and Machining in Students' Shop

- Weld a variety of shapes, sizes, and materials.
- Work with faculty, staff, and students in the design and fabrication of complex class and research projects.
- Operate machine tools and welding machines found in the shop, including mills, lathes, grinders, MIG and TIG welding, cutting torch, and plasma cutter.
- Instruct students on proper usage of welding and power tools.

5% Electronic Shop and Concrete Lab Support

- From hardware point of view, assist Electronic Shop in developing and maintaining schematics and documentation of laboratory systems and experimental setups.
- Provide technical support of fabrication, installation, and testing for classes conducted in Concrete Lab.

5% Other Responsibilities

- Maintain and repair shop and laboratory machinery and equipment as necessary.
- Act as information resource on safety matters and shop practices and welding principles.
- Perform office and laboratory maintenance including moving of offices, labs, and equipment.
- Other duties as assigned.

Required Qualifications

- Knowledge of machine tool technology, metal fabrication, and metal joining processes.
- One to two years of journey-level metal fabrication, welding skills to facilitate fabrication of laboratory apparatus. Advanced mechanical aptitude and troubleshooting skills to diagnose malfunctioning equipment and mechanical systems.
- Ability to operate overhead crane safely. Ability to unload materials from trucks by the safe rigging of various shapes, sizes, and weights. Ability to operate forklift with a sensitive touch. Ability to lift up to 70 pounds and work at heights.
- Excellent attention to detail. Ability to be flexible and to show initiative. Ability to communicate effectively, diplomatically, and professionally. Ability to work independently as well as part of a team. Strong record of punctuality and reliable attendance.

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Preferred Qualifications

- A.A. degree, Apprentice Certificate of Completion or equivalent experience/training.

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 \$30.25 (Step 1) to \$31.64 (Step 2) hourly. This is a 100% FTE, limited term appointment that is FLSA Non-exempt and paid biweekly.

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 [U.S. Equal Employment Opportunity Commission](#) poster.



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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

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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