

Scientific Balloon Instrumentation Engineer (7115U),
Space Sciences Laboratory - 74166
University of California, Berkeley

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Posted Nov. 8, 2024, set to expire Mar. 7, 2025

Job Title	Scientific Balloon Instrumentation Engineer (7115U), Space Sciences Laboratory - 74166
Department	
Institution	University of California, Berkeley Berkeley, California
Date Posted	Nov. 8, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Astronomy and Astrophysics
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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

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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 Space Sciences Laboratory (SSL) is an Organized Research Unit (ORU) of the Berkeley campus reporting to the Vice Chancellor for Research. SSL's primary goal is to foster research in space-related sciences and to provide education for the next generation of space scientists. Research at SSL, led by Berkeley faculty and SSL Senior Fellows, focuses on experiments and observations carried out in space as well as theoretical and basic research.

Application Review Date

The First Review Date for this job is: November 20,2024

Responsibilities

- Coordinates single-component design, supporting analyses, construction planning, assembly oversight, and testing. This includes, but is not limited to, instrumentation for balloon payloads and sounding rockets.

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- Supervises or coordinates technicians and shop personnel involved in assembly and testing of component parts (instrument engineering model components).
- Works with the payload engineering team to develop procurement specifications for specific payload piece parts.
- Ensures that components are procured in accordance with project requirements.
- Works with other research organizations in the development of the component payload, including instrument electronics, mechanics, and thermal control systems.
- Designs electrical, mechanical, electronic, and/or optical instruments and computer-associated systems and equipment.
- Employs existing skills in CAD software to support detailed design activities for the payload.
- Test instrumentation, including electrical boards and systems, and gather and analyze data; prepare formal engineering reports, drawings, and status reports from those tests.
- Performs the recording and reduction of test data for instrument design and evaluation purposes of the balloon or sounding rocket instrumentation is a key part of the role.
- Gathers and analyzes information and prepares reports with respect to feasibility, engineering design criteria, and performance of their components.
- Works with team to assemble subsystem test procedures for the balloon or sounding rocket payload.

Required Qualifications

- Specialist in at least one discipline (electrical, mechanical, or optical).
- Proficiency in related CAD systems (e.g., Altium, Zemax, Solidworks, or any other relevant software).
- Working systems knowledge of other engineering specialties involved in assignments - includes development of plans and procedures that span multiple engineering disciplines (e.g., operations plan, instrument calibration plan).
- Ability to communicate verbally and in writing effectively.
- Ability to interface with various institutions and disciplines to accomplish project goals and meet requirements.

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Education / Training Requirements

Bachelor's degree in related area and / or equivalent experience / training

Preferred Qualifications

- Working skills in the design, development, and construction of space systems, including one experience with an aerospace product.
- Preferable experience supporting a NASA mission.
- Experience in instrument engineering, particularly in development of assembly and test plans/procedures for instruments.

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 full pay scale for this position is \$98,600.00-\$184,400.00. The budgeted salary range that the University reasonably expects to pay for this position is \$98,600.00-\$130,000.

How to Apply

To apply, please submit your resume and cover letter.

Other Information

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Individuals hired may be required to undertake a six-week assignment in Antarctica. Prior to this deployment, it is necessary to complete a physical and dental examination. This is in accordance with the Arctic and USAP Polar Physical Qualification (PQ) Process. For further details, please refer to the following link: <https://www.nsf.gov/geo/opp/soh/>.

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.

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

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applying for or inquiring about this job announcement.

Contact

N/A

University of California, Berkeley

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