

UVEX Systems Engineer (7115U), Space Sciences
Laboratory - 65458
University of California, Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=237949>

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Posted Jun. 20, 2024, set to expire Jun. 30, 2024

Job Title	UVEX Systems Engineer (7115U), Space Sciences Laboratory - 65458
Department	
Institution	University of California, Berkeley Berkeley, California
Date Posted	Jun. 20, 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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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.

The Role

SSL is looking for a Systems Engineer to join the UVEX project. The Ultraviolet Explorer (UVEX) is NASA's next Astrophysics Medium-Class Explorer mission. UVEX will undertake a synoptic survey of the entire sky in the near-UV and far-UV, probing the dynamic universe with a sensitivity more than 50 times better than GALEX. SSL will manage the UVEX mission including providing Project Systems Engineering. The successful candidate will join this team and contribute to the development of this exciting new space based telescope. Experience in Systems Engineering is required and with another

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science focused NASA mission is preferred. Applicants are preferred to have a speciality in a technical domain such as optical design, RF engineering or mechanical systems. UVEX has only just been selected and there is an opportunity to join a project at the formulation stages. Candidates with strong technical and hands on skills are encouraged to apply.

Application Review Date

The First Review Date for this job is: July 2, 2024

Responsibilities

- Coordinates single component design, supporting analyses, construction planning, assembly oversight, and testing.
- Works with the UVEX Systems Engineering team to develop procurement specifications for specific payload piece parts (EM & FM). 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 detail design activities for the UVEX payload.
- Performs the recording and reduction of test data for instrument design and evaluation purposes. Specifically, supports the instrument systems engineer in the testing of detectors and the payload systems engineer in payload performance tests.
- 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 UV Telescope and UVEX scientific 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 payload plans and procedures that span multiple engineering disciplines (e.g., alignment plan, TVAC test plan, EMI/C test plan, etc.)
- Experience in instrument systems engineering, particularly in development of assembly and test

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plans/procedures for imaging instruments

- Ability to communicate verbally and in writing effectively. Ability to interface with various institutions and disciplines to accomplish project goals and meet requirements.

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 successful aerospace product. Preferable experience supporting a NASA explorers class mission.

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 \$95,300.00- \$178,100.00.

How to Apply

To apply, please submit your resume and cover letter.

Conviction History Background

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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.

For the complete University of California nondiscrimination and affirmative action policy, please see the University of California [Discrimination, Harassment, and Affirmative Action in the Workplace](#) policy.

To apply, visit

https://careerspub.universityofcalifornia.edu/psp/ucb/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_APP_SCH

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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