Detector Engineer (7115U), Space Sciences Laboratory - 65320
University of California, Berkeley

Job Title	Detector Engineer (7115U), Space Sciences Laboratory - 65320
Department	Space Sciences Laboratory
Institution	University of California, Berkeley Berkeley, California
Date Posted	Apr. 10, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Research/Technical/Laboratory
Apply Online Here	https://apptrkr.com/5169015
Apply By Email	
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: March 8, 2024

Responsibilities

- Support space instrumentation and technology development. Design components/systems, organize and output work products, planning, and organizational activities.
- Implement electrical, opto-mechanical, and software solutions in support of instrument design

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and evaluation.
- Assemble and test instrumentation in support of space flight research and development. Carry out detailed test of components and systems, troubleshoot electronics systems as required, perform tests, data aggregation, reduction, and analysis.
- Gather and analyze information, prepare trade studies, generate reports with respect to feasibility and engineering design criteria, as well as component/instrument performance.
- Coordinate with internal and external organizations in support of the development of component/system-specification, component fabrication, test equipment support, etc.
- Coordination and supervision of tasks, provide guidance and support research-based learning for lower-level staff and students

Required Qualifications

- Working skills in the design, development and construction of space systems, including one successful aerospace product.
- Specialist in at least one discipline (electrical, software, or mechanical). Proficiency in related CAD systems (e.g., Altium, Zemax Opticstudio, Solidworks, or any other relevant software).
- Working systems knowledge of other engineering specialties involved in assignments. Understanding of system design principles, methodical approach to space flight instrument design and realization, infer from requirements, standards, specifications, etc.
- Familiarity with clean-room activities, UHV systems, control systems, micro/nano fabrication processes and techniques.
- Ability to develop analytical models, analyze data, implement routines in software (i.e. Matlab, Python, etc.)
- 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

Salary & Benefits

For information on the comprehensive benefits package offered by the University, please visit the University of California's Compensation & Benefits website.

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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 range that the University reasonably expects to pay for this position is $100,000.00-$130,000.00.

How to Apply

To apply, please submit your resume and cover letter.

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

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Contact Information

Contact

N/A

University of California, Berkeley

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