

Detector Engineer (7119U), Space Sciences Laboratory -
70509
University of California, Berkeley

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Posted Jul. 2, 2024, set to expire Oct. 30, 2024

Job Title	Detector Engineer (7119U), Space Sciences Laboratory - 70509
Department	
Institution	University of California, Berkeley Berkeley, California
Date Posted	Jul. 2, 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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Detector Engineer (7119U), Space Sciences Laboratory - 70509

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: July 17, 2024

Responsibilities

- Under general supervision, designs and prepares engineering plans and specifications of moderate complexity for novel laboratory equipment and instruments in the area of photo-emissive detector technology development and processing.

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- Will support both space-based instrumentation and ground-based high-energy physics experimentation.
- Perform concept studies, support the development of system-level requirements, support program/project technical data management planning, support system-level project requirements and preliminary design data products.
- Generate detailed designs of components and/or systems, support procurement and fabrication processes, generate hardware assembly instructions.
- Assemble and integrate components or systems to meet requirements.
- Support the delivery, integration and test, as well as support operation planning o Support closeout and end item data package delivery.
- Plan, organize and document technical information, prepare analytical and design trade studies, generate assembly and test reports, component/instrument performance reports.
- Assemble and test instrumentation in support of space flight research and development and high energy physics experiments.
- Carry out methodical and detailed tests of components and systems, troubleshoot hardware and electronics systems as required, and support data aggregation, reduction, and analysis.
- Development of test plans and procedures for precision and/or space-based instruments.
- Maintain test and hardware support equipment.

Required Qualifications

- Working knowledge of engineering principles and methods in order to independently perform professional engineering design work of limited scope and complexity.
- Working knowledge necessary to begin independent application of principles, practices and procedures in the completion of assignments.
- Organizational abilities and decision-making to prioritize work assignments.
- Effective written and verbal communication skills.
- Working skills in the design, development, integration and test of detectors.

Education / Training Requirements

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

Preferred Qualifications

- Experience in at least one discipline (electrical, optical, software/hardware, or mechanical).

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- Proficiency in related software design suite (e.g., Altium, Vivado/Vitis, Zemax Opticstudio, Solidworks, NX/Nastran, or other equivalent).
- Working systems knowledge of other engineering specialties involved in assignments.
- Ability to develop analytical models, analyze data, implement routines in software (e.g. Matlab, Python, etc.)

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 \$77,600.00-\$140,400.00. The budgeted salary or hourly range that the University reasonably expects to pay for this position is \$77,600.00-\$109,000.00.

How to Apply

To apply, please submit your resume and cover letter.

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

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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/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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