



Job Description

Job Title: R&D Engineer 4 (0442U) #18465
Job ID: 18465
Location: Main Campus-Berkeley
Full/Part Time: Full-Time
Regular/Temporary: Regular **Department** Space Sciences Laboratory

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Departmental Overview

The Samuel Silver Space Sciences Laboratory (SSL) is an independent research organization within the University of California. A wide variety of research is conducted at SSL for sponsors including NASA, the Department of Energy, the National Science Foundation and other agencies. The laboratory typically develops state-of-the-art instrumentation or other hardware for agency sponsored satellites. From time to time the Laboratory manages the entire implementation of a mission for an agency as prime contractor. SSL is looking for an Electrical Engineer to help with the design and build instrumentation for the NASA funded ICON project, the Ionospheric Connection explorer.

Responsibilities

*Under limited supervision, designs and prepares digital electronics, FPGA designs and specifications for space research projects. Completes analyses of these designs, including timing, parts stress, signal integrity, worst case performance and thermal.

*Independently produces electrical schematics and layout of board using requirements and guidance from various sources (scientist, systems engineer, mission assurance, etc.), to produce high reliability products.

*Leads integration and testing of instrument unit, interfacing with multiple engineers to verify electrical design.

Supports system level testing, occasionally participating in off-hour tests such as thermal vacuum testing.

*Writes up test procedures and test reports.

*Presents in NASA reviews.

Required Qualifications

- Advanced knowledge associated with the planning, development, and construction of engineering systems.
- Advanced knowledge of specialized design work as well as the overall field.
- Strong creativity and problem solving abilities to apply principles, practices and procedures within discipline to complete difficult assignments.
- Advanced communication skills, both written and verbal, to convey complex information in a clear and concise manner.
- Advanced interpersonal and presentation skills.
- Ability to work in a highly collaborative manner; readily assess complex challenges and barriers and recommend effective resolutions.
- Demonstrated ability to lead, motivate and influence others.

Preferred Qualifications

- Advanced degree in related area and/or equivalent experience/training
- Experience in FPGA HDL programming, board schematics and board layout

Salary & Benefits

Salary Range: \$82,500 - \$126,200

How to Apply

Please submit your cover letter and resume as a single attachment when applying.

Criminal Background Check

This position has been designated as sensitive and may require a Criminal Background Check. We reserve the right to make employment contingent upon successful completion of a Criminal Background Check.

E-Verify

This position requires the final candidate to successfully pass an E-Verify check. To learn more information visit: <http://www.uscis.gov>

Equal Employment Opportunity

The University of California, Berkeley is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex national origin, disability, or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct>

If you'd like more information about your EEO rights as an applicant under the law, please see http://www1.eeoc.gov/employers/upload/eeoc_self_print_poster.pdf

Work Environment

As of January 1, 2014 the University of California, Berkeley is a smoke and tobacco free workplace. Information about our Smoke and Tobacco Free Policy is available at: <http://www.tobaccofree.berkeley.edu/>

Clery Disclosure

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act require that crime statistics and other safety information for colleges and universities receiving Title IV funds be made available to applicants upon request. University of California, Berkeley's Annual Security Report includes statistics for the previous three years concerning reported crimes that occurred on campus, in certain off-campus buildings owned or controlled by the University, and on public property within or immediately adjacent to and accessible from the campus. The report also includes institutional policies concerning campus security, such as those concerning alcohol and drug use, crime prevention, the reporting of crimes, sexual assault, and other matters. You may obtain this information for the UC campus to which you are applying by accessing the website at <http://police.berkeley.edu/safetycounts/index.html>.

A printed copy of the report may be obtained by writing to UCPD, Room 1, Sproul Hall, Berkeley, California 94720-1199 or contact Claudia Archer at 510-642-9113 or via email at ccp@berkeley.edu.

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