

FPGA and Digital Engineer - R&D 2 (7119U) 18958
University of California, Berkeley

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Posted Oct. 12, 2021, set to expire Feb. 6, 2022

Job Title	FPGA and Digital Engineer - R&D 2 (7119U) 18958
Department	
Institution	University of California, Berkeley Berkeley, California
Date Posted	Oct. 12, 2021
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Electrical and/or Electronics
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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 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,

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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 [\[url=https://apptrkr.com/get_redirect.php?id=2555520&targetURL=https://strategicplan.berkeley.edu/guiding-values-and-principles/\]](https://apptrkr.com/get_redirect.php?id=2555520&targetURL=https://strategicplan.berkeley.edu/guiding-values-and-principles/)Guiding Values and Principles, our [\[url=https://apptrkr.com/get_redirect.php?id=2555520&targetURL=https://diversity.berkeley.edu/principles-community\]](https://apptrkr.com/get_redirect.php?id=2555520&targetURL=https://diversity.berkeley.edu/principles-community)Principles of Community, and [\[url=https://apptrkr.com/get_redirect.php?id=2555520&targetURL=https://strategicplan.berkeley.edu/\]](https://apptrkr.com/get_redirect.php?id=2555520&targetURL=https://strategicplan.berkeley.edu/)our Strategic Plan[\[url=https://apptrkr.com/get_redirect.php?id=2555520&targetURL=https://strategicplan.berkeley.edu\]](https://apptrkr.com/get_redirect.php?id=2555520&targetURL=https://strategicplan.berkeley.edu).

Departmental Overview

The Space Sciences Laboratory (SSL) is the UC system's premier space sciences research facility and one of the preeminent university laboratories in the country for space research. SSL's primary goals of fostering outstanding research in space-related sciences and providing education for the next generation of space scientists. Research at SSL is led by Berkeley faculty and SSL Senior Fellows, and focuses on experiments and observations carried out in space, but also includes research with the potential of leading to future space experiments, and the theoretical research that is tied into the experimental and observational programs. Since its inception in 1959, SSL has participated in over 50 NASA space science missions, including the Apollo, Mars, and Explorer programs, as well as many international space missions.

Application Review Date

The First Review Date for this job is: 6/7/2021

Responsibilities

Uses professional engineering concepts to perform moderately complex engineering assignments in the digital electrical engineering specialty and in FPGA design. Works in a specialized engineering phase of a major training and/or research effort. Works on assignments of moderate scope where

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analysis of situations or data requires a review of a variety of factors. Is responsible for the design, build and test of digital circuitry and interfacing to sensors and analog electronics. Comprehensive FPGA design skills used to design, program and test FPGAs for NASA space flight missions.

Responsibilities

- * Under general supervision designs digital electrical circuits and performs electrical tests to verify board designs; prepares formal test reports; provide written test procedures to support overall system requirement verification and traceability.
- * Under general supervision, designs and prepares FPGA designs and specifications of moderate complexity for NASA funded space research projects.
- * Tests electrical boards, and gathers and analyzes data; prepares formal engineering reports, drawings and status reports from those tests.

Required Qualifications

- * A demonstrated knowledge of FPGA design of moderately complicated systems e.g. embedded processors, data processing algorithms and interfacing with other ICs.
- * Proficiency with the use of laboratory test equipment, such as multimeters, oscilloscopes, signal generators, and test programming.
- * Organizational abilities and decision-making to prioritize work assignments.
- * Effective written and verbal communication skills.
- * Ability to work in a collaborative manner, to assist in identifying any challenges or barriers.
- * Proficiency in FPGA design tools.
- * Proficiency with schematic capture and board layout tools.

Education

- * Bachelors degree in electrical or electronic engineering or physics with work experience involving FPGA design and testing and digital electrical engineering and / or equivalent experience / training.

Salary & Benefits

Salary commensurate with experience. For information on the comprehensive benefits package offered by the University visit:

[url=https://apptrkr.com/get_redirect.php?id=2555520&targetURL=https://ucnet.universityofcalifornia.edu/com]

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and-benefits/index.html]https://ucnet.universityofcalifornia.edu/compensation-and-benefits/index.html

How to Apply

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

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 see:

[url=https://apptrkr.com/get_redirect.php?id=2555520&targetURL=https://www.eeoc.gov/sites/default/files/mig

For the complete University of California nondiscrimination and affirmative action policy see:

[url=https://apptrkr.com/get_redirect.php?id=2555520&targetURL=http://policy.ucop.edu/doc/4000376/Nondis

To apply, visit

[url=https://apptrkr.com/2555520]https://careerspub.universityofcalifornia.edu/psp/ucb/EMPLOYEE/HRMS/c/H

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

N/A

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