

Associate Development Engineer (7120U) Job 70860 -
Department of Electrical Engineering and Computer
Sciences (EECS)
University of California, Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=239466>

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Posted Jul. 24, 2024, set to expire Nov. 8, 2024

Job Title Associate Development Engineer (7120U) Job
70860 - Department of Electrical Engineering and
Computer Sciences (EECS)

Department Electrical Engineering and Computer Sciences
Institution University of California, Berkeley
Berkeley, California

Date Posted Jul. 24, 2024

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Research Scientist/Associate
Professional Staff

Academic Field(s) Electrical and/or Electronics

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Job Description

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**Associate Development Engineer (7120U) Job 70860 - Department of Electrical Engineering and
Computer Sciences (EECS)**

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

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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, 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 Department of Electrical Engineering and Computer Sciences (EECS), in both the College of Engineering and the College of Computing, Data Science, and Society (CDSS) is the largest academic department on the Berkeley campus, consisting of over 130 faculty, active emeriti, professors-in-residence, and adjunct professors, 3600+ undergraduates in both Engineering and CDSS, 750+ graduate students, and 60+ staff.

EECS programs are consistently ranked in the top three by many measures, including U.S. News & World Report's national and global ranking. Annual operating budget (not including expenditures related to research, faculty start-ups, and student fellowships) for EECS is \$40+ million. The Department is actively engaged in teaching and research in the disciplines of Artificial Intelligence,

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Computational Biology, Databases, Graphics, Hardware / Architecture, Human-Computer Interaction, Operating Systems / Networking, Programming Systems / Software, Scientific Computing, Theory, Vision (in Computer Science) as well as Biosystems, Communication/Networking, Communications / Physical Layer, Control, Design, Modeling, and Analysis, Electromagnetics/Antennas, Integrated Circuits, Optics, Physical Electronics Devices, Physical Electronics/MEMS, Optoelectronics, Energy, Robotics, Signal Processing for Image & Video, Signal Processing for Speech & Audio (in Electrical Engineering).

Computer Science operates research and instructional laboratories in Soda Hall, Sutardja Dai Hall, and other off-campus sites, and Electrical Engineering operates similar facilities in Cory Hall, Sutardja Dai Hall, and other off-campus sites. EECS also has a significant technical staff support structure to provide support for research and instructional laboratories and fabrication facilities.

The Associate Development Engineer plays a crucial role in providing professional engineering and technical support across all instructional labs within the Electrical Engineering and Computer Science department. Reporting directly to the Senior Development Engineer, this position involves supporting a wide range of lab and departmental activities, from basic electronics to advanced topics in controls and robotics. Responsibilities include assisting in the design, setup, testing, and maintenance of experimental systems and equipment used in various instructional labs and anything electronics such as audio visual equipment in department spaces. The Associate Development Engineer will provide technical guidance and support to students and faculty in operating and maintaining equipment within the machine shop or maker space. The role requires proficiency in electronics, using development tools for microprocessors, CAD tools for engineering designs, PC board layout software and other technologies to develop and integrate firmware/software effectively. Moreover, the Associate Development Engineer collaborates closely with faculty, students, and staff to ensure the smooth operation of instructional labs and enhance student learning experiences through practical application and experimentation.

Application Review Date

The First Review Date for this job is: 7/27/24 - Open until filled

Responsibilities

45% - Provide high-level engineering and technical support across all instructional labs within the Electrical Engineering and Computer Science department. Collaborates with PI in the design, setup, testing, and maintenance of experimental systems and equipment used in labs covering basic

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electronics, controls, robotics, and other engineering disciplines. Integrates cutting-edge technologies or methodologies (e.g., machine learning algorithms, AI-driven systems) into experimental setups or research projects, ensuring compatibility and functionality.

20% - Collaborate with faculty, students, and staff during the planning, design, and implementation phases of lab projects, ensuring alignment with instructional goals and learning outcomes. Develop and optimize firmware/software for microprocessors and embedded systems used in lab experiments, utilizing appropriate development tools and methodologies. Facilitates collaboration and communication across diverse disciplines (e.g., engineering, biology, medicine) to address multifaceted research challenges or interdisciplinary projects requiring integrated solutions.

15% - Provide technical guidance and training to students, faculty, and lab assistants on equipment operation, safety protocols, and best practices in experimental design and execution. Collaborate with the Senior Development Engineer and other stakeholders to assess and enhance lab infrastructure, equipment, and processes to support evolving educational needs and research initiatives.

10% - Document project progress, outcomes, and technical specifications to maintain comprehensive records and facilitate project evaluation and replication. Monitor and evaluate lab equipment performance, identify issues, and implement timely solutions to ensure optimal functionality and reliability.

10% - Participate in continuous improvement initiatives to enhance lab capabilities, efficiency, and effectiveness, contributing to the department's academic and research objectives. Stay updated on emerging technologies, trends, and advancements in engineering education and instructional methodologies relevant to the role.

Required Qualifications

- Proven experience in providing engineering and technical support within educational or research environments.
- Strong proficiency in using development tools for microprocessors (e.g., ARM, AVR, PIC, Intel), CAD tools (e.g., AutoCAD, Solidworks) and other technologies relevant to electrical engineering and computer science disciplines.
- Excellent problem-solving skills and ability to analyze complex technical issues, propose solutions, and implement effective resolutions.
- Effective communication and collaboration skills, with the ability to work closely with diverse stakeholders including faculty, students, and technical staff.
- Commitment to fostering a positive and supportive learning environment, promoting hands on

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learning and experiential education.

- Prior experience with instructional labs covering electronics, controls, robotics, or related disciplines is highly desirable.
- Ability to work in a collaborative manner; identify challenges and barriers and recommend resolutions.
- 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.

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 or hourly range that the University reasonably expects to pay for this position is \$88,900 - \$126,400.

Referral Source Info

This job is part of the Employee Referral Program. If a UC Berkeley employee is referring you, please ensure you select the **Referral Source** of "UCB Employee". Then enter the employee's **Name** and **Berkeley email** address in the **Specific Referral Source** field. Please enter only one name and email.

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.

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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.

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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