

R & D Engineer 2 (7119U) Job 2586 - NanoLab - 2586
University of California Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=132864>

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Posted Nov. 4, 2019, removed Jan. 16, 2020

Job Title	R & D Engineer 2 (7119U) Job 2586 - NanoLab - 2586
Department	N/A
Institution	University of California Berkeley Berkeley, California
Date Posted	Nov. 4, 2019
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Research/Technical/Laboratory Facilities/Maintenance/Transportation
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Apply By Email	

Job Description

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About Berkeley

The University of California, Berkeley, is one of the world's most iconic teaching and research institutions. Since 1868, Berkeley has fueled a perpetual renaissance, generating unparalleled intellectual, economic and social value in California, the United States and the world. Berkeley's culture of openness, freedom and acceptance academic and artistic, political and cultural make it a very special place for students, faculty and staff.

Berkeley is committed to hiring and developing staff who want to work in a high performing culture that supports the outstanding work of our faculty and students. In deciding whether to apply for a staff position at Berkeley, candidates are strongly encouraged to consider the alignment of the Berkeley

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Workplace Culture with their potential for success at
[url=https://apptrkr.com/get_redirect.php?id=1693929&targetURL=http://jobs.berkeley.edu/why-berkeley.html]http://jobs.berkeley.edu/why-berkeley.html.

Application Review Date

The First Review Date for this job is: 11/14/19

Departmental Overview

This position exists to provide professional engineering development and maintenance support of the facilities and equipment for the Marvell Nanofabrication Laboratory. The laboratory is a unique 15,000 sq. ft. ultra-clean, particle-free facility that houses over 170 pieces of semiconductor process equipment which serve the research needs of more than 500 researchers.

This role involves professional engineering and engineering technician support as part of academic instructional lab and/or research projects and programs. Engineering activities include the design, construction, testing of experimental systems, operation of analytical systems, establishment of performance specifications, and documentation. Engineering Technicians may be assigned duties within a single discipline (e.g., electrical) or span a range of disciplines.

Responsibilities

60% Under general supervision, Maintains, troubleshoots, and fixes semi-conductor processing machines to successfully perform repeatable standard processes to ensure lab member research can be completed.

20% Under general supervision, Designs, builds, tests and validates innovative modifications to complex semi-conductor processing machines to perform unprecedented research primarily in the area of atmospheric and low pressure chemical vapor deposition, plasma enhanced chemical vapor deposition; and secondarily, reactive ion etch, inductively coupled plasma etch.

10% Organize and maintain lab spaces to optimally support lab equipment, process, and inventory needs. Maintain spare parts inventory.

10% Assist in the development of, and follow standard operating procedures and best known methods for safety and to prevent injuries. Practice and comply with safe working practices to assure personal safety and safety to the lab environment for colleagues and researchers. Understand and work within

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guidelines to protect the environment. Writes annual reports, detailed web-based instruction manuals, and creates CAD drawings.

Required Qualifications

This is a one-year contract

- * Working knowledge of engineering principles and methods in order to independently perform professional 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.
- * Ability to work in a collaborative manner, to assist in identifying any challenges or barriers.
- * Strong familiarity with a range of computer systems and programs, from Windows and MS Office to PLCs and ladder programming.
- * A good understanding of basic electronics and signals.
- * A basic understanding of chemistry and chemical safety.

Preferred Qualifications

- * A working understanding of vacuum science and systems -pumps, vacuum gauging, specialized seals and plumbing components, leak detection.
- * A working understanding of high-purity gas delivery and gas control systems - gas manifolds, mass flow controllers, specialized seals and plumbing components.
- * Familiarity with broad range of micro/nanofabrication and semiconductor processing equipment.
- * Hands on experience with APCVD, LPCVD, PECVD thin film deposition equipment.
- * Hands on experience with RIE, DRIE, ICP, thin film etch equipment.
- * Bachelors degree in related area (Mechanical Engineering, Electrical Engineering, Chemical Engineering, Materials Science Engineering, Physics, Applied Physics.) or equivalent experience.

Salary & Benefits

For information on the comprehensive benefits package offered by the University visit:

[url=https://apptrkr.com/get_redirect.php?id=1693929&targetURL=http://ucnet.universityofcalifornia.edu/comp

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[and-benefits/index.html](http://ucnet.universityofcalifornia.edu/compensation-and-benefits/index.html)]<http://ucnet.universityofcalifornia.edu/compensation-and-benefits/index.html>

* Starting salary commensurate with experience.

* This is a one-year contract position. Contract positions may be extended based on operational demand. Contract positions are eligible to participate in the health and welfare programs offered by UC Berkeley.

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=1693929&targetURL=http://www.eeoc.gov/employers/upload/pos

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

[url=https://apptrkr.com/get_redirect.php?id=1693929&targetURL=http://policy.ucop.edu/doc/4000376/Nondis

To apply, visit

[url=https://apptrkr.com/1693929]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

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