Development Technician 5 (7170C) - NanoLab
University of California, Berkeley

Job Title	Development Technician 5 (7170C) - NanoLab
Department	Marvell Nanofabrication Laboratory
Institution	University of California, Berkeley Berkeley, California
Date Posted	Sep. 22, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Classified Staff
Academic Field(s)	Research/Technical/Laboratory Facilities/Maintenance/Transportation
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Job Description

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About Berkeley

At the University of California, Berkeley, we are dedicated to fostering a community where everyone feels welcome and can thrive. Our culture of openness, freedom and belonging make it a special place for students, faculty and staff.

As a world-leading institution, Berkeley is known for its academic and research excellence, public mission, diverse student body, and commitment to equity and social justice. Since our founding in

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1868, we have driven innovation, creating global intellectual, economic and social value.

We are looking for applicants who reflect California's diversity and want to be part of an inclusive, equity-focused community that views education as a matter of social justice. Please consider whether your values align with our Guiding Values and Principles, Principles of Community, and Strategic Plan.

At UC Berkeley, we believe that learning is a fundamental part of working, and provide space for supportive colleague communities via numerous employee resource groups (staff organizations). 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 full-time staff employees with at least 80 hours (10 days) of paid time per year to engage in professional development activities. Find out more about how you can grow your career at UC Berkeley.

Departmental Overview

The Marvell Nanofabrication Laboratory (NanoLab) and the NanoLab Machine Sshop are independently managed recharge operations that exist within the UCB College of Engineering. The Machine Shop's primary objective is to support NanoLab mechanical and facilities requirements. The NanoLab is a 15,000 sq. ft. ultra-clean, particle free facility that houses over 150 pieces of semiconductor equipment, which serves the research needs of over 500 researchers yearly. The Machine Shop is equipped with band saws, drill press, table saw, sheet metal tooling, MIG/TIG welding, 3D printer, manual & CNC mills and lathes including a 5-axis HAAS VF2. The shop can produce precision machine work with tolerances to .001" for all types of metals, composites, plastics and woods. The shop has the capability to weld both ferrous and non-ferrous metals ranging from .020" thin stainless steel to 1" thick aluminum. The shop specializes in ultra-high vacuum system fabrication and orbital welding. The Machine Shop supports research and education facilities and equipment in the areas of integrated circuits and systems; micro/nanofabrication technologies for integrated microelectronics, optics and MEMS; and advanced materials design and development for a wide range of interdisciplinary applications. The Machine Shop provides rigging, installation, design, fabrication, modification and repair of specialized precision instruments and specialized support systems to all College of Engineering departments and other UCB departments or campuses.

Under the general supervision of the Machine Shop Engineering Technical Supervisor, the Development Technician is responsible for siting, facilitating, developing, supporting, repairing, and modifying semiconductor processing and nanotechnology equipment for the Nanofabrication Laboratory and for faculty research laboratories and support spaces. In addition, the Development Technician monitors and evaluates operation of various specialized laboratory utilities, such as air, compressed gases, nitrogen, oxygen, heating ventilating and air conditioning, cooling water and

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process waste streams. Semiconductor research facilities are among the most complex, costly, and technically demanding research facilities. Included in the mission of the NanoLab Machine Shop in Cory Hall is supporting such an operation.

Application Review Date

The First Review Date for this job is: October 2, 2025 - Open Until Filled

Responsibilities

50% Equipment and Facilities Support:

- Independently installs, facilitates, and modifies environment to accommodate semiconductor processing and nanotechnology equipment. Equipment includes analytical systems for measuring thin films and semiconductor substrate properties, bonders, chillers, dicing saws, rapid thermal processors, photolithography track and exposure tools, sputter systems, etchers, atmospheric and low-pressure chemical vapor deposition furnaces, process cooling water systems and vacuum systems.
- Respond quickly to equipment problem reports. Update status, repair and document systems using the NanoLab computer and software programs.

30% Design and Fabrication:

- Using CAD tools and hand drawings, design, and make working drawings as needed to support systems.
- Fabricate intricate devices using computer numerically controlled (CNC) and manual milling machines, lathes, saws, grinders, table saw, miter saw, drill presses, and hand tools. Selecting from a broad range of materials such as stainless steel, aluminum, brass, copper, OFHC copper, plastics, wood, etc., determine which materials are the best choice for application.

10%Documentation:

- Understand and use the Mercury database to mark equipment status, enable tools, enter comments and problem reports and add needed support documents. Write, edit and revise equipment manuals, support documents, startup and shutdown procedures, and additional reports as needed. Utilizing the Machine Shop Jobs Management System, maintain up-to-date records of assignments. Track and document job status. Maintain spare parts and a database of parts sources for assigned equipment.

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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 guidelines to protect the environment.
- Provide direction, guidance and training to less experienced engineers, staff and researchers.
- Offer instruction and training in support of staff development and equipment, support, and repair.

Required Qualifications

- Graduation from high school or a General Education Diploma and seven years of technical and craft experience, or an equivalent combination of education and experience.
- Ability to MIG & TIG Weld.
- Ability to operate machine shop equipment. Milling machines, lathes, saws, hand tools, etc.
- Ability to operate wood working equipment. Table Saws, Miter Saws, Router.
- Ability to design and make working drawings using CAD software.
- Ability to work from drawings, blueprints, sketches and verbal instructions.
- Demonstrated knowledge of MSDS corrosive/toxic chemicals and gases.
- Working knowledge of OSHA regulations.
- Design, documentation, drawing, and layout skills.

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.

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The budgeted salary or hourly range that the University reasonably expects to pay for this position is $40.64 to $53.77 hourly. This is a 100% FTE career position eligible for full benefits. This position is FLSA Non-exempt and paid biweekly.

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.

Misconduct Disclosure

As a condition of employment, the final candidate who accepts a conditional offer of employment will be required to disclose if they have been subject to any final administrative or judicial decisions within the last seven years determining that they committed any misconduct; received notice of any allegations or are currently the subject of any administrative or disciplinary proceedings involving misconduct; have left a position after receiving notice of allegations or while under investigation in an administrative or disciplinary proceeding involving misconduct; or have filed an appeal of a finding of misconduct with a previous employer.

"Misconduct" means any violation of the policies or laws governing conduct at the applicant's previous place of employment, including, but not limited to, violations of policies or laws prohibiting sexual harassment, sexual assault, or other forms of harassment, discrimination, dishonesty, or unethical conduct, as defined by the employer. For reference, below are UC's policies addressing some forms of misconduct:

UC Sexual Violence and Sexual Harassment Policy
UC Anti-Discrimination Policy
Abusive Conduct in the Workplace

Equal Employment Opportunity

The University of California is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or other protected status under state or federal law.

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To apply, visit
https://careerspub.universityofcalifornia.edu/psc/ucb/EMPLOYEE/HRMS/c/HRS_HRAM_FL.HRS_CG_S

Contact Information

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

Contact

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University of California, Berkeley
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