

Electrician (8195C) - NanoLab  
University of California, Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=263835>

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Posted Oct. 13, 2025, set to expire Jun. 30, 2026

**Job Title** Electrician (8195C) - NanoLab  
**Department** NanoLab  
**Institution** University of California, Berkeley  
Berkeley, California

**Date Posted** Oct. 13, 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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**Electrician (8195C) - NanoLab**

### 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) on the UC Berkeley campus features over 15,000 square feet of Class 100 and 1000 cleanroom space. It offers academic and industrial researchers comprehensive micro- and nanofabrication capabilities supported by expert equipment and process engineering staff. Complementing this, the NanoLab Machine Shop at Cory Hall delivers specialized engineering, design, and precision fabrication services for custom instrumentation and fixturing.

This purpose of this position is to provide professional technical, mechanical, and engineering development and maintenance support of the facilities, equipment, and processes of the Marvell Nanofabrication Laboratory (NanoLab) and for faculty research laboratories and support spaces within College of Engineering and for other campus and inter-campus departments.

Under the general supervision of the Cory Hall Machine Shop Engineering Technical Supervisor, the Electrician is responsible to provide professional electrical services and engineering development and maintenance support of the facilities and equipment of the Berkeley Marvell NanoLab and for faculty research and instructional laboratories and support spaces within the College of Engineering and for other campus and inter-campus departments and College of Engineering faculty research and instructional laboratories and support spaces. The machine shop electrician provides the electrical service, equipment connections and equipment/computer cabling of semiconductor processing, micro/nanofabrication, and a wide range of specialized laboratory research and instructional equipment. The NanoLab is a unique 15,000 sq. ft. ultra-clean, particle-free facility that provides access to and supports over 170 pieces of micro/nanofabrication equipment which serve the research needs of more than 500 researchers. The College of Engineering supports over 230 active faculty and more than 1900 graduate researchers in more than one hundred custom faculty research laboratories.

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In addition, the machine shop electrician provides electrical support of various specialized laboratory utilities, such as deionized water, compressed specialty gases, building wide nitrogen, oxygen, and argon distribution, heating ventilating and air conditioning, cooling water and waste process systems. Coordination of all utility requirements to prevent conflict is key. Since electrical services often have the most stringent code compliance requirements, the machine shop electrician often provides oversight and coordination of mechanical, plumbing, electrical, and computer connections to laboratory equipment. The College of Engineering laboratories and the specialized NanoLab micro/nanofabrication facility are among the most complex, costly, and technically demanding research facilities. Included in the mission of the Cory Hall Machine Shop is supporting these operations.

### **Application Review Date**

The First Review Date for this job is: October 22, 2025 - Open Until Filled

### **Responsibilities**

#### **30% Equipment Support**

- Plan, coordinate, and carry out electrical connections for semiconductor processing, micro/nanofabrication, and other specialized laboratory equipment. Requires close coordination with graduate researchers, faculty principal investigator, building manager, inspectors, and campus and outside service providers. Specialized equipment includes thin film deposition and etch systems; thermal processing furnaces; photolithography coat, develop, and exposure tools; analytical systems for measuring thin films and material properties; packaging tools including dicing saws, wire, wafer and flipchip bonders; and, ancillary support equipment such as chillers, vacuum pumps and point of use treatment systems. Research and instructional equipment includes electrical service and connection for research and instructional computers, servers and data storage systems. These systems often also have emergency power support requirements pending scope defined by Project Manager.
- Equipment electrical connections includes cabling and wiring (e.g., CAT5, CAT5E CAT6, or audio-visual cabling) between various equipment and computer support and monitoring systems and between labs and computer rooms and machine rooms.

#### **25% Specialty Systems**

- Plan, coordinate, and carry out electrical service and connections for wide range of specialty wiring systems such as building utility monitoring, card key access control, material monitoring, and fire alarm systems.
- Specialty systems work is in coordination with Project Manager and appropriate authority having

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jurisdiction. For example, card key control in coordination with UCPD and Fire Alarm systems in coordination with campus fire alarm technicians and subject to pre-review, inspection, and approval by campus fire marshal.

### **20% Facilities Support**

- Plan, coordinate, and carry out installation of electrical services to meet the needs of laboratory, instructional, and research support spaces. Responsible for repair and maintenance of electrical services in laboratory, instructional, and research support spaces. All tasks coordinated with shop supervisor and campus approved Project Managers. Perform electrical load analysis and verify utility conditions insure compatibility with design intent as defined by Project Manager. Update panel schedules and label all devices in field. Coordinate with Project Manager to insure completion of all inspections as required by Berkeley campus inspection office. Work to comply with mandated Berkeley campus and State code compliance as defined by campus electrical inspectors.

### **15% Design, Planning, and Documentation**

- Using CAD tools and hand drawings design and develop schematic diagrams and working drawings for electrical services and connections as required. Provide information and schematics to permit office for campus update and maintenance of building plans.
- All tasks coordinated with shop supervisor, project manager, and any impacted academic units to insure work does not interfere with instructional schedules. Coordinate with shop supervisor to develop time and material estimates for projects and assignments. Use the Machine Shop Jobs Management System to maintain up-to-date records of projects and assignments, track and document job status, and record service time and material costs associated with tasks.

### **10% Machine Shop Support and Maintenance**

- Machine shop electrical support includes the coordination and installation of electrical connections for all machine shop equipment, such as but not limited to, computer numerically controlled (CNC) milling machines and lathes, saws, grinders, drill presses, welding machines, and dust collectors. In coordination with shop supervisor and other shop personnel, design and support fabrication of hardware modifications and custom parts for electrical services and tool installations.
- Develop, monitor, and maintain electrical parts inventory, storage area, and machine work areas.

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The machine shop is a shared work environment that requires that all employees do their part to help maintain a clean and organized workspace. 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 of colleagues and researchers. Understand and work within guidelines to protect the environment. Participate in training and development as defined by shop supervisor for safe and improved work performance.

### Required Qualifications

- Applicants for positions in the Electrician series are expected to possess the skills, knowledge, and abilities essential to the successful performance of the duties assigned to the position.
- Journeyman level Electrician with 5 years' experience.
- Low voltage cable connection experience.
- Estimating skills for materials and labor for electrical services and equipment connections.
- Communication skills.
- Design, documentation, drawing, and layout skills.
- Electronic and mechanical skills.
- Troubleshooting skills.
- State of CA Electrician License

### Preferred Qualifications

- Experience in semiconductor processing and nanotechnology equipment support.
- Experience with heating/ventilation/air conditioning, facilities and utilities support.
- Demonstrated knowledge of the interrelationship of building wide systems.
- Ability to operate numerically controlled milling machines, lathes, saws, hand tools.
- Ability to design and make working drawings using CAD software.
- Demonstrated knowledge of MSDS corrosive/toxic chemicals and gases.
- Working knowledge of OSHA regulations.

### 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

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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 \$68.34 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**

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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.

**To apply, visit**

[https://careerspub.universityofcalifornia.edu/psc/ucb/EMPLOYEE/HRMS/c/HRS\\_HRAM\\_FL.HRS\\_CG\\_S](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**

N/A

University of California, Berkeley

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