



Job Description

Job Title: Principal Lab Mechanician (8651C) #20064
Job ID: 20064
Location: Main Campus-Berkeley
Full/Part Time: Full-Time
Regular/Temporary: Regular **Department** Coll of Chem Dean

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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 Workplace Culture with their potential for success at <http://jobs.berkeley.edu/why-berkeley.html>.

Application Review Date

The First Review Date for this job is: 7/6/2015

Departmental Overview

The College of Chemistry operates as three distinct functional units: The Department of Chemistry, The Department of Chemical Engineering, and the College itself. The College operations is diverse, including Undergraduate Affairs management, College Relations, Business and Administrative Services, Environmental Health and Safety, Information Systems, Building Services , Shops and Analytical Services.

The Machine Shop, as part of the Shops, fulfills equipment and physical infrastructure needs of College shop customers. The Pr. Lab MechanicianI design, fabricate, modify, maintain, and repair mechanical equipment, laboratory apparatus, and components utilizing all processes associated with standard mechanical and machine shop practices. Has has thorough knowledge, understanding, and application of techniques used in the fabrication and design of cryogenic, ultra high vacuum, vacuum, and high pressure equipment, including all types of plumbing utilized with in a research laboratory setting.

Responsibilities

- Work from unchecked drawings, sketches or oral instructions with responsibility for establishing or checking accuracy of dimensions and clearances. Determine and analyze project requirements and constraints in to meet customer needs.
 - Provide input on the facilitation and fabrication of projects, with attention to: design goals, utility, functionality, constructability, cost, timeliness, workmanship, application and selection of materials, finishes, geometric dimensioning, sizing and tolerancing of components.
 - Develop project details and solutions as work progresses.
- Construct, Fabricate, Modify, and Repair:
- Properly and efficiently set up and operate all tools and equipment of the machining, mechanical, plumbing, and construction trades.
 - Work efficiently with a wide variety of exotic materials, metals, metal alloys, non-metals, and plastics

in the fabrication, modification, and repair of research equipment and facilities. Work to close tolerances (.0001") as required.

- Work with equipments, not limited to cryogenic, ultra high vacuum, vacuum, high pressure, pulse valves, NMR probes, laser systems, sheet metal fabrications, small precision parts and mechanisms, large fabrications, and all types of plumbing used in a laboratory environment.

Shop Operations, EH&S, Position Controls, and Other Duties:

- Document and account for time and materials used on assignments. Adhere to shop standards of performance to ensure efficiency in scheduling, progress tracking, workload projecting, job estimating, etc.
- Communicate with shop management on assignments, policies, and procedures, to create and maintain a supportive and productive work environment.
- Participate in special projects such as equipment and facility assessment, standards drafting, policy definition, facility upgrade, procedure development, and customer education, to improve the quality of the work environment and customer service.
- Work and operate equipment within College and EH&S policies.
- Work in an interactive and cooperative manner with shop supervision, co-workers, and customers.
- Act as a resource and the lead mechanic in the Shop. Demonstrate strong individual effort.
- Independently develop project details based mainly on rough sketches and oral instructions, specifying component relationships, sizes, fits, and materials.
- Make recommendations to improve the functionality and fabrication process of projects, balancing the researchers' needs and restrictions of the equipment and environment.
- Use ingenuity in suggesting changes in design to solve problems which inhibit the functional utilization of the device.
- Facilitate cooperation within the Shop and between workgroups.
- Assist in training and cross training peers to increase the overall Shop capabilities.

Required Qualifications

- Graduation from high school or a General Education Diploma and 10 years of metal shop experience and journeyman skills in the operation of all standard machine shop equipment equivalent to that of an instrument maker; or equivalent combination of education and experience.
- Experience in closing tolerances (.0001") with a wide variety of exotic materials and working from blueprints, rough sketches, and verbal instructions.
- Experience in fabrication of cryogenic, ultra high vacuum, high pressure, and laboratory plumbing components and systems.
- Ability to perform all types of soldering and TIG welding processes.
- CNC skills.
- Ability to work productively in a fast paced and demanding environment.
- Effective communication skills.
- Strong analytical and organizational skills.
- Ability to collaboratively identify, analyze, and solve problems.
- Tig Welding skill preferred.
- In depth knowledge of standard mechanical and machine shop best practices.
- Design experience and skills equivalent to a R&D machinist.

Salary & Benefits

Hourly Range: \$ 30.68- 42.39 (Depends on years of experience, internal equity, etc.)

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

<http://ucnet.universityofcalifornia.edu/compensation-and-benefits/index.html>

How to Apply

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

Criminal Background Check

This position has been designated as sensitive and may require a Criminal Background Check. We reserve the right to make employment contingent upon successful completion of a Criminal 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 the complete University of California nondiscrimination and affirmative action policy see:

<http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct>

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