Assistant/ Associate Specialist - Dept of Mechanical Engineering
University of California Berkeley

Job Title	Assistant/ Associate Specialist - Dept of Mechanical Engineering
Department	
Institution	University of California Berkeley Berkeley, California
Date Posted	Mar. 21, 2025
Application Deadline	04/21/2025
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Mechanical Engineering
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Job Description

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Position overview Position title: Assistant / Associate Specialist
Salary range: The UC academic salary scales set the minimum pay determined by rank and step at appointment. See the following table(s) for the current salary scale(s) for this position: https://www.ucop.edu/academic-personnel-programs/_files/2024-25/july-2024-scales/t24-b.pdf. The current full time base salary range for this position is $73,000 - $85,000. "Off-scale" salaries, which yield compensation that is higher than the published system-wide salary at the designated rank and

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step, are offered when necessary to meet competitive conditions.

Percent time: 100%

Anticipated start: Spring 2025

Position duration: One year, with possibility of an extension depending on performance and availability of funding.

Application Window
Open date: March 19, 2025

Next review date: Thursday, Apr 3, 2025 at 11:59pm (Pacific Time)
Apply by this date to ensure full consideration by the committee.

Final date: Monday, Apr 21, 2025 at 11:59pm (Pacific Time)
Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

Position description

The Design for Emerging and Nanoscale Manufacturing lab is based in the Mechanical Engineering Department at UC Berkeley and is led by Professor Hayden Taylor. The lab seeks to invent and demonstrate a new generation of manufacturing processes to accelerate industrial decarbonization through more efficient use of materials and energy. Themes of research include multi-scale additive manufacturing, contact-mechanical considerations in semiconductor manufacturing, and the processing of materials for sustainable building construction.

A particular focus area is the development of volumetric additive manufacturing processes, in which all points of a three-dimensional geometry are defined simultaneously. Central to this effort is the process of Computed Axial Lithography, which we introduced with collaborators several years ago. The lab is undertaking projects to expand the range of materials amenable to this process, to enhance its spatial resolution and accuracy, and to increase the space of printable geometries.

The position is part of a fast-paced project for the development of a volumetric method for simultaneously printing conducting and insulating microstructures in light-sensitive materials. We are looking for someone with capabilities in precision mechanical design and prototyping to facilitate the construction of apparatus for testing key system concepts.

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The job responsibilities will be as follows:

- Design, in collaboration with other team members, an optomechanical system for testing and characterizing components of an experimental advanced additive manufacturing process.
- Fabricate the mechanical components, and contribute to assembling the system.
- Assist with materials characterization experiments using the system.
- Applications of these printed structures include microsystems and packaging substrates for, e.g., advanced photonic products.
- To achieve challenging targets for spatial resolution and volumetric printing rate, someone with capabilities in precision mechanical design and prototyping to facilitate the construction of apparatus for testing key system concepts is needed.
- Document the design in sufficient detail for archival publications and assist, where needed, in the preparation of such publications.

labor: https://ucnet.universityofcalifornia.edu/resources/employment-policies-contracts/bargaining-units/academic-researchers/contract/

Qualifications
Basic qualifications (required at time of application)
Master's degree or equivalent international degree at the time of application.

Preferred qualifications
Experience with design or modification of 3D printers/additive manufacturing systems is desirable.
Experience of rapid prototyping of mechanical components is desirable.

Application Requirements

Document requirements

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter

Reference requirements

- 3 required (contact information only)

Apply link: https://aprecruit.berkeley.edu/JPF04814

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Help contact: hkt@berkeley.edu

About UC Berkeley

UC Berkeley is committed to diversity, equity, inclusion, and belonging. The excellence of the institution requires an environment in which the diverse community of faculty, students, and staff are welcome and included. Successful candidates will demonstrate knowledge and skill related to ensuring equity and inclusion in the activities of their academic position (e.g., teaching, research, and service, as applicable).

The University of California, Berkeley 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, age, or protected veteran status.

Please refer to the University of California's Affirmative Action Policy and the University of California's Anti-Discrimination Policy.

In searches when letters of reference are required all letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality prior to submitting their letter.

As a University employee, you will be required to comply with all applicable University policies and/or collective bargaining agreements, as may be amended from time to time. Federal, state, or local government directives may impose additional requirements.

As a condition of employment, the finalist will be required to disclose if they are subject to any final administrative or judicial decisions within the last seven years determining that they committed any misconduct, are currently being investigated for misconduct, left a position during an investigation for alleged misconduct, or have filed an appeal 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.
- UC Sexual Violence and Sexual Harassment Policy
- UC Anti-Discrimination Policy for Employees, Students and Third Parties
- APM - 035: Affirmative Action and Nondiscrimination in Employment

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Job location
Berkeley, CA

To apply, visit https://aprecruit.berkeley.edu/JPF04814

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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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