

# Assistant Project Scientist - Department of Materials Sciences and Engineering

Job #JPF04699

- Materials Science & Engineering / College of Engineering / UC Berkeley

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## POSITION OVERVIEW

**Position title:** Project Scientist

**Salary range:** The UC academic salary scales set the minimum pay determined by rank and step at appointment. See the following table for the current salary scale for this position: [https://www.ucop.edu/academic-personnel-programs/\\_files/2024-25/july-2024-scales/t38-b.pdf](https://www.ucop.edu/academic-personnel-programs/_files/2024-25/july-2024-scales/t38-b.pdf). A reasonable estimate for this position is \$93,700 – \$108,600.

**Percent time:** 100%

**Anticipated start:** February 2025

**Position duration:** One year with the possibility of an extension depending on performance and continuation of appropriate funding.

## APPLICATION WINDOW

**Open date:** December 2, 2024

**Next review date:** Monday, Dec 16, 2024 at 11:59pm (Pacific Time)

Apply by this date to ensure full consideration by the committee.

**Final date:** Thursday, Jan 2, 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

Prof. Haimei Zheng's lab is in the Department of Materials Sciences and Engineering. The lab studies a variety of physical and chemical processes of materials with a focus on materials transformations and dynamic phenomena at solid-liquid and solid-liquid-gas interfaces. The current research topics include nucleation, growth and transformations of materials, solid-liquid (electrode-electrolyte), solid-liquid-gas interfaces, electrocatalysis, etc. Insights garnered from this research enable novel materials synthesis, and efficient applications of materials in catalysis, batteries and other functional devices.

The primary responsibilities for the successful candidate will be conducting cutting-edge in-situ and ex-situ transmission electron microscopy (TEM) experiments, batch synthesis of materials, data analysis, and publish the work timely.

Duties:

- Use state-of-art TEM instrumentation, in-situ apparatus, and advanced microscopy techniques towards unveiling nanoscale dynamics relevant to batch synthesis of materials.
- Design and conduct experiments systemically leading to novel synthesis of materials.
- Apply analysis methods for in-situ and ex-situ TEM experimental results.
- Communicate research progress and update status monthly to project management.
- Present research at seminars and conferences.
- Document the research findings in reports and publish in professional journals.

**Union Contract:** <https://ucnet.universityofcalifornia.edu/labor/bargaining-units/ra/contract.html>

## QUALIFICATIONS

**Basic qualifications** (required at time of application)

PhD or equivalent international degree.

**Preferred qualifications**

Ph.D. degree in Materials Science, Chemistry, Microelectronics, or other related field.

Expertise and hands-on experience on in-situ TEM experiments.

Strong background and skills on TEM characterization, including HRTEM, EDS, EELS, etc.

## Assistant Project Scientist - Department of Materials Sciences and Engineering (JPF04699)

Skilled on electron microscopy data analysis.  
Demonstrated strong problem-solving skills and creativity in the relevant areas of research.  
Experience on solution synthesis of materials.  
Knowledge on design of nanodevices, especially for in-situ TEM.  
Skills in nanofabrication.  
Experience of working with undergraduate or graduate students, and mentoring junior researchers.  
Record of peer-reviewed publications

## APPLICATION REQUIREMENTS

### Document requirements

- Curriculum Vitae - Your most recently updated C.V., including publication list, with top publications highlighted.
- Statement of Research - (1-2 pages)

### Reference requirements

- 3 required (contact information only)

**Apply link:** <https://aprecruit.berkeley.edu/JPF04699>

**Help contact:** [emartinez24@berkeley.edu](mailto:emartinez24@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.

## JOB LOCATION

Berkeley, CA