

Assistant Professional Researcher - Indoor Air Quality -
Center for the Built Environment
University of California Berkeley

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Posted Mar. 31, 2025, set to expire May 15, 2025

Job Title	Assistant Professional Researcher - Indoor Air Quality - Center for the Built Environment
Department	
Institution	University of California Berkeley Berkeley, California
Date Posted	Mar. 31, 2025
Application Deadline	05/15/2025
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Ecological and Environmental Civil Engineering Architectural (Building & Construction)
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Job Description

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Assistant Professional Researcher - Indoor Air Quality - Center for the Built Environment

Position overview

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/t13-b.pdf A

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reasonable estimate for this position is \$90,200 - \$117,900

Percent time: 100%

Anticipated start: Fall 2025

Position duration: 24 months with the possibility of an extension depending on performance and continuation of appropriate funding.

Application Window

Open date: March 29, 2025

Next review date: Sunday, Apr 13, 2025 at 11:59pm (Pacific Time)

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

Final date: Thursday, May 15, 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 Center for the Built Environment (CBE) at the University of California, Berkeley, is seeking an Assistant Professional Researcher to lead research on indoor air quality, heating, ventilation and air conditioning (HVAC) systems, building performance simulations, occupancy detection, and plug load management. This team member will work in collaboration with leading research and advocacy organizations to advance knowledge in this field. This research will also be done in partnership with CBE's consortium of 50 partner organizations, a diverse group of industry leaders that represent the breadth of the building sector. The Professional Research series is for career academic appointees who focus on independent and creative research activity of high quality at the equivalent to that expected of the Professor series.

The successful candidate's main duties and responsibilities will consist of:

- (1) Participating in and leading research projects in building science that include indoor air quality, laboratory experiments, field studies on the physical indoor environmental quality aspects, HVAC, and other aspects of building performance.
- (2) Developing research capabilities and directions for the indoor air quality assessment team at CBE; identifying trends in research and helping to develop the corresponding team capabilities required to take on the associated research challenges.

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- (3) Identifying funding opportunities at government agencies, industry and philanthropic organizations; leading proposals to apply to those opportunities.
- (4) Overseeing simulation or experimental design and set-up, including data acquisition systems, calibration, physical measurements, human and building performance assessments, and simulation methods.
- (5) Supervising and conducting experiments in laboratory settings, field studies, or simulation contexts.
- (6) Overseeing and conducting comprehensive data analysis, including both qualitative and quantitative data, and design tool development.
- (7) Writing technical documents and presenting research results, as well as preparing project reports for funding agencies and/or industry partners.
- (8) Writing articles for refereed academic journals, industry publications, and/or conferences.
- (9) Managing research project budgets.
- (10) Supervising and training graduate students and other team members working on research projects.
- (11) Participating in standards and code development and with professional associations, for example, ISIAQ, ASHRAE or IBPSA.

Labor Contract: <https://ucnet.universityofcalifornia.edu/resources/employment-policies-contracts/bargaining-units/academic-researchers/contract/>

Qualifications

Basic qualifications (required at time of application)

Ph.D. or equivalent International Degree

Preferred qualifications

- Ph.D or equivalent International Degree in Architecture or Engineering or related fields.
- Record of high quality publications in academic journals and other publication venues.
- Demonstrated expertise in indoor air quality
- Experience with data analysis (using R, Python or equivalent).
- At least 5 years of experience designing and conducting research and statistical analysis.
- Demonstrated ability to obtain funding to pursue their research interests and goals, or at least demonstrated proposal writing skills
- Previous graduate study, academic, industrial training or other professional experience in the building sciences or closely related fields.
- Experience in a range of research methods (e.g., lab studies, field studies, simulations, human subject experiments, equipment testing).
- End-to-end experience with all aspects of research - identification of and planning for funding opportunities, forming competitive teams and concepts for funding applications, writing proposals,

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research design, data acquisition, occupant surveys, analysis, reporting, stakeholder communication.

- Research experience in indoor air quality, HVAC systems, IEQ and building performance studies, or comparable experience in a similar field.
- Expertise in software and/or hardware development for building science applications.
- Experience in air quality measurements (e.g., CO₂, airflow, particles, NO_x, VOCs, portable air cleaners,)
- Experience with thermal comfort measurements (e.g., air speed, human subject tests, etc)
- Experience with infectious aerosol measurements and mitigations strategies
- Demonstrated ability to work effectively as part of an interdisciplinary team, including the ability to efficiently and actively cooperate with other staff members within the organization.
- Demonstrated ability to lead a research team of graduate students and visiting scholars
- Strong English writing and communication skills.
- Demonstrated expertise with visualization

Application Requirements

Document requirements

- Curriculum Vitae - Your most recently updated C.V. including links to any relevant publications.
- Cover letter - 1 page cover letter that summarizes research interests and professional goals.

Reference requirements

- 3 required (contact information only)

Apply link: <https://aprecruit.berkeley.edu/JPF04854>

Help contact: jspitzer@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

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applicable).

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

Please refer to the [University of California's Affirmative Action and Nondiscrimination in Employment 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](#)

Job location
Berkeley, CA



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To apply, visit <https://aprecruit.berkeley.edu/JPF04854>

jeid-30264874fdac2d4e8c857f8d805135fa

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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