

Post-Doctoral Scholar (working with Dean and Professor Richard L. Corsi)

Position Description: This position will involve a combination of laboratory and field experiments related to effective and cost-accessible indoor air cleaning devices for reduction of inhalation dose of virus-laden aerosol particles, wildfire smoke, and aerosol particles from other sources, as well as select gaseous pollutants. Laboratory chamber and field testing of related technologies and new space and personal air cleaning devices will be completed to determine and improve on several measures of system effectiveness. Modeling will involve estimates of the reduction of inhalation dose of indoor pollutants given competing sinks, potential health benefits, and the energy costs associated with various control strategies for different types of buildings and climates.

Qualifications:

The successful applicant should have:

- appropriate research experience and a PhD in Architectural, Environmental, or Mechanical Engineering, Applied Physics or Chemistry;
- ability to design and conduct experiments independently;
- ability to troubleshoot experimental systems and measurement instruments;
- ability to analyze data, interpret and present experimental and modeling results with excellent oral and written communication skills;
- ability to work closely with others and to mentor students;
- a deep commitment to and understanding of laboratory safety; and
- a deep commitment to a diverse and inclusive work environment.

More: The University of California at Davis is ranked amongst the top 10 public universities in the United States, including recent rankings as #1 in the US for Diversity, Inclusion and Internationalization, #1 in the US for Campus Sustainability, and #2 for Affordable Elite Colleges in the US. The College of Engineering has an exciting new Ne^xt Level Strategic Research Vision, and this position is aligned with the “Advancing Human Health” challenge and “Technology for the Greater Good” cross-cutting theme of the vision. More on the vision is available here: <https://engineering.ucdavis.edu/engineering-research>

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, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see:

<https://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct>. Under Federal law, the University of California may employ only individuals who are legally able to work in the United States.

Questions about this position can be directed to rlcorsi@ucdavis.edu. Applications should be submitted to the same address with a letter of intent, curriculum vita (including list of publications), and the names and contact information (email address and phone number) of two references, including PhD advisor. The start date for this position should be prior to January 15th 2023. The position is open until filled.