

Fully Funded Ph.D. Positions in Indoor Air Chemistry and
Environmental Contaminant
University of Cincinnati

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Posted Aug. 26, 2024, set to expire Dec. 26, 2024

Job Title	Fully Funded Ph.D. Positions in Indoor Air Chemistry and Environmental Contaminant
Department	Civil Engineering
Institution	University of Cincinnati Cincinnati, Ohio
Date Posted	Aug. 26, 2024
Application Deadline	Open until filled
Position Start Date	Spring or Fall 2025
Job Categories	Graduate Student
Academic Field(s)	Ecological and Environmental Civil Engineering Architectural (Building & Construction)
Apply By Email	
Job Description	

Job Description

The Indoor Air Quality (IAQ) Lab (www.tianrenwu.com) led by Dr. Tianren Wu at the University of Cincinnati is looking for two highly motivated Ph.D. students to work on indoor air chemistry research projects, beginning Spring or Fall of 2025.

Research Projects:

The successful candidate will work on the characterization of indoor air pollutants by using an online high-resolution chemical ionization mass spectrometer (CIMS).

Project 1: Airborne volatile organic compound (VOC) dynamics and chemical transformations in an indoor aquatic center.

Project 2: Formation of airborne highly oxygenated organic molecules (HOMs) and aerosol from indoor

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ozonolysis reactions.

Qualifications:

- (1) The candidates must hold an undergraduate degree in environmental engineering, environmental science, chemical engineering, chemistry, atmospheric chemistry, civil engineering, or related fields.
- (2) A master's degree in relevant fields is highly desirable but not required.
- (3) Previous experience with mass spectrometry, aerosol measurements, or ambient air trace gas analysis is desirable.
- (4) Proficiency with Matlab, or other programming and numeric computing languages, such as IGOR, Python, and R.
- (5) A cumulative GPA of at least 3.0;
- (6) Good written and verbal communication skills.

Application Documents:

- (1) Resume/Vitae.
- (2) A letter describing the candidate's qualifications, research experience, and research interests (max. 2 pages).
- (3) A sample of technical writing (e.g. journal publication, thesis, research report, or course project).
- (4) A copy of unofficial transcripts.
- (5) Contact information for two references.

Interested candidates could reach out to Dr. Tianren Wu via email for more information. To apply, please combine the application documents into a single PDF file and send it to Dr. Tianren Wu (wutr@ucmail.uc.edu) with the subject line "PhD Student Application_Your Name"

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact