

Fully Funded Ph.D. Positions in Mass Spectrometry /
Indoor Air Chemistry
University of Cincinnati

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Job Title	Fully Funded Ph.D. Positions in Mass Spectrometry / Indoor Air Chemistry
Department	Civil and Environmental Engineering
Institution	University of Cincinnati Cincinnati, Ohio
Date Posted	Jan. 16, 2025
Application Deadline	Open until filled
Position Start Date	Fall 2025
Job Categories	Graduate Student
Academic Field(s)	Water Resources Engineering Ecological and Environmental Civil Engineering Chemical/Petroleum

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 one highly motivated Ph.D. student to characterize an advanced high-resolution mass spectrometer and work on indoor air chemistry research projects, beginning Fall of 2025.

Research Projects:

The successful candidate will work on the characterization of the online multi-scheme chemical ionization inlet Orbitrap mass spectrometer (MION-Orbitrap) and use it in indoor air chemistry studies.

Potential projects include:

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

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indoor aquatic center.

Project 2: Formation of airborne highly oxygenated organic molecules (HOMs) and aerosol from indoor 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.
- (6) TOFEL/IELTS test results.

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".

About the IAQ Lab at U Cincinnati

Dr. Tianren Wu is currently an Assistant Professor in the Department of Civil and Architectural Engineering and Construction Management at the University of Cincinnati (<https://researchdirectory.uc.edu/p/wutr>). His research aims to establish new frontiers in Indoor Air Quality (IAQ) research, provide novel fundamental insights into indoor air pollution, human exposure, and health effects, and develop solutions to secure a comfortable and healthy living environment. The Lab focuses on characterizing the fate and transport of indoor air pollutants, improving IAQ sensing technology, and advancing engineering control and mitigation strategies.

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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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