

**Graduate Research Assistant (PhD Position)
Cleveland State University**

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Posted Jun. 3, 2025, set to expire Oct. 3, 2025

Job Title	Graduate Research Assistant (PhD Position)
Department	Mechanical Engineering https://m3tfluid-lab.github.io/
Institution	Cleveland State University Cleveland, Ohio
Date Posted	Jun. 3, 2025
Application Deadline	Open until filled
Position Start Date	Aug. 15, 2025
Job Categories	Graduate Student
Academic Field(s)	Ocean Engineering Mechanical Engineering Civil Engineering Aerospace/Aeronautical/Astronautics

Apply By Email

Job Description

GRA POSITION – Urban Microclimate, Local Turbulence Characterization, and AI-Driven Modeling

The Multiscale Multiphysics Modeling and Data-Driven Analysis of Thermofluids (M3TFluid) Lab at Cleveland State University is seeking highly motivated Ph.D. students to join a multi-year project focused on advancing climate-adaptive urban microclimate modeling using reduced-order modeling, CFD, and machine learning.

Students will work on one or a combination of the following focus areas with applications to smart city and environmental resilience:

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- AI-enhanced fluid dynamics and surrogate modeling
- Wind engineering and hazard mitigation
- Neighborhood-scale urban flow and pollution modeling
- Reduced-order modeling for flow and heat transfer analysis

Eligibility:

- BSc/MSc in mechanical, aerospace, civil, or applied mathematics
- Degree earned in 2020 or later
- At least one first-author peer-reviewed publication
- Strong coding (Python/C++) and CFD skills (ANSYS/OpenFOAM/StarCCM+)

Preferred:

- Background in thermal-fluids, smart city planning, AI/data analytics, and physics-informed modeling
- Proven skills in multifidelity and hybrid CFD modeling and data-driven analysis
- Proven skills in integrated computational and experimental fluid dynamics
- U.S. citizens/green card holders preferred; international students welcome

Application Materials:

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- CV (2 pages max)
- Cover letter (1 page; research interests, qualifications)
- Unofficial transcripts, sample publications, and relevant certifications

To apply, please email Dr. Navid Goudarzi at n.goudarzi@csuohio.edu.

Contact Information

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

Contact Dr. Navid Goudarzi
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