

Graduate Research Assistant (PhD Position)
Cleveland State University

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

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| 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) | Sustainable Engineering Ocean Engineering Naval Architecture & Marine Engineering Mechanical Engineering Computer Engineering Civil Engineering Architectural (Building & Construction) Aerospace/Aeronautical/Astronautics Engineering - Other |

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

Graduate Research Assistant (PhD Position) Cleveland State University

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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:

- 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

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- Proven skills in integrated computational and experimental fluid dynamics
- U.S. citizens/green card holders preferred; international students welcome

Application Materials:

- 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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