PhD Position –CFD Modeling of Low Gravity Cryogenic Propellant Management
University of Memphis

Job Title	PhD Position –CFD Modeling of Low Gravity Cryogenic Propellant Management
Department	Mechanical Engineering http://www.memphis.edu/me
Institution	University of Memphis Memphis, Tennessee
Date Posted	Aug. 26, 2025
Application Deadline	Open until filled
Position Start Date	Jan. 1, 2026
Job Categories	Graduate Student
Academic Field(s)	Aerospace/Aeronautical/Astronautics Engineering Physics Mechanical Engineering
Apply By Email	
Job Description	

PhD Position –CFD Modeling of Low Gravity Cryogenic Propellant Management

University of Memphis - Department of Mechanical Engineering

The Department of Mechanical Engineering at the University of Memphis seeks exceptional PhD candidates for CFD research in the area of cryogenic propellant management in reduced gravity.

Qualifications:

- Must be a U.S. Citizen
- MS/BS in Engineering (Mechanical, Aerospace) or related fields (Applied Mathematics, Physics)

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- Strong academic record
- Interest and experience with programming
- Excellent written and verbal communication skills

Preferred Skills (Any of the Following):

- Experience with Computational Fluid Dynamics (CFD)
- Knowledge of numerical methods and high-performance computing
- Previous research or relevant project experience

The PhD Candidate Will Be Provided With:

- Competitive stipend and full research assistantship
- Access to state-of-the-art computing facilities
- Training in advanced computational methods

Start Date:

Fall 2025 or Spring 2026

How to Apply:

Please submit the following documents to jmarchtt@memphis.edu with the subject line "PhD-Application-2025". The review of applications will begin immediately and continue until the positions are filled.

1. A one-page cover letter briefly mentioning your research interests and background
2. Complete CV
3. Unofficial transcripts
4. Names and contact information of three references

EEO/AA Policy

The University of Memphis (UofM) will not discriminate against, or allow the harassment of any student, employee or applicant for employment because of race, color, religion, national origin, sex, sexual orientation, gender identity/expression, disability, age or because of his/her status as a qualified

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veteran with a disability, veteran of the Vietnam era, or other protected veteran (each a “protected class”). No student shall be discriminatorily excluded from participation or denied the benefits of any educational program on the basis of a protected class. The University will comply with all applicable laws regarding equal opportunity and affirmative action. Inquiries concerning this policy and federal and local laws and regulations concerning discrimination or harassment in education and employment programs and activities may be directed to the University’s Office for Institutional Equity.

Contact Information

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

Contact Jeff Marchetta
University of Memphis
322C Engineering Sciences Bldg
Memphis, TN 38152

Phone Number 9016783141
Contact E-mail jmarchtt@memphis.edu