

Graduate Student Position NC State University

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Posted Jul. 24, 2025, set to expire Nov. 23, 2025

Job Title	Graduate Student Position
Department	Mechanical and Aerospace Engineering Department https://mae.ncsu.edu/people/hvtafres/
Institution	NC State University Raleigh, North Carolina
Date Posted	Jul. 24, 2025
Application Deadline	Aug. 15, 2025
Position Start Date	Jan. 1, 2026
Job Categories	Graduate Student
Academic Field(s)	Mechanical Engineering
Job Website	https://www.mae.ncsu.edu/pmmf/
Apply By Email	hvtafres@ncsu.edu

Job Description

Two PhD Research Assistant positions are available in the Porous Media and Multiphase Flow (PMMF) Laboratory in the Department of Mechanical and Aerospace Engineering at NC State University. The projects are expected to start in January 2026.

The projects are Multiphysics in nature and are comprised of computational (~70%) and experimental (~30%) tasks. Project-1 is focused on developing a computational model to simulate coalescence of aerosolized droplets in porous media. Project-2 is focused on formulating electrostatic charge formation in porous media and studying its impact on capturing airborne particles.

The Mechanical and Aerospace Engineering Department at NC State University has an enrollment of over 1,300 undergraduates and 400 graduate students. NC State's location on Centennial Campus, combined with its proximity to the Research Triangle Park and neighboring universities, provides

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extensive opportunities for academic and industrial interaction and collaboration. The College of Engineering is ranked overall #24 among all engineering colleges in the nation.

The applicants must have a BS or MS degree in Mechanical or Chemical Engineering with background in Computer Programming and fluid dynamics modeling. Interested applicants are encouraged to contact Dr. Hooman Tafreshi (hvtafres@ncsu.edu) with the following information:

- 1-Complete resume in PDF format,
- 2-BS and MS transcripts,
- 3-GRE and Toefl scores if available,
- 4-Names and email address of three references.

Information regarding Dr. Tafreshi's research can be found using the links given below:

<https://www.mae.ncsu.edu/pmmf/>

Contact Information

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

Contact Hooman Tafreshi
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