

## Graduate Student Position NC State University

Direct Link: <a href="https://www.AcademicKeys.com/r?job=260267">https://www.AcademicKeys.com/r?job=260267</a>
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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 <a href="https://www.mae.ncsu.edu/pmmf/">https://www.mae.ncsu.edu/pmmf/</a>

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

NC State University

Department of Mechanical and Aerospace

Engineering

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Raleigh, NC 27606

**Phone Number** 9195156151

Contact E-mail hvtafres@ncsu.edu