

**Ph.D. Graduate Researcher
Princeton University**

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Posted Sep. 11, 2020, expired Dec. 31, 2020

Job Title	Ph.D. Graduate Researcher
Department	Civil and Environmental Engineering
Institution	Princeton University Princeton, New Jersey
Date Posted	Sep. 11, 2020
Application Deadline	Dec. 31, 2020
Position Start Date	August 2021
Job Categories	Graduate Student
Academic Field(s)	Mechanical Engineering Material/Metallurgy Civil Engineering Engineering - Other

Apply By Email

Job Description

Advanced Materials and Additive Manufacturing (AM2) Research Group
Department of Civil and Environmental Engineering
Princeton University

Two Ph.D. positions in the areas of (1) bio-inspired design and novel architected engineering materials and (2) additive and automated manufacturing processes

Advanced Materials and Additive Manufacturing (AM2) Research Group is seeking motivated candidates for two open Ph.D. positions starting Fall 2021. Interested candidates must contact Prof. Reza Moini in the Department of Civil and Environmental Engineering at Princeton University.

(1) Students with degrees in material science, civil, or mechanical engineering and backgrounds in mechanics of materials, biomimetic design, materials characterization, processing, and computational

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mechanics are encouraged to apply. Successful candidates will work on challenging research questions focused on understanding architected and bio-inspired designs of engineering materials and structures and necessary fabrications processes, including advanced and additive manufacturing techniques, and implementing them in the development of brittle and quasi-brittle materials with unique performance characteristics for civil and energy infrastructure.

(2) Students with a degree in mechanical, industrial, and civil engineering with a strong background in the fields of autonomous manufacturing, additive manufacturing of materials, and robotic fabrication and control are encouraged to apply. Successful candidates will work on the development of automated additive manufacturing technologies and the advancement of materials processing techniques for understanding and investigating fundamental processing-property relationships in new infrastructure components.

The students will work with Prof. Moini and will have the opportunity to work in state-of-the-art materials and additive manufacturing laboratories and to work in a collaborative, supportive, and inclusive interdisciplinary research environment. Candidates with a master's degree and relevant expertise and research skills are further encouraged to apply.

Interested applicants

If you are interested, please email reza.moini@princeton.edu and provide the following three documents in a single pdf, ideally well in advance of the Dec. 31 Graduate School deadline for CEE. Please title your email "Ph.D. in Materials," or "Ph.D. in Manufacturing," depending on the position of interest. Candidates with outstanding promise will be encouraged to submit a formal application to graduate school.

- 1-page Cover letter describing your research experience and interests. Please include a brief statement about your future academic or professional goals and any previous experience demonstrating working as a team.
- CV (including list of publications, academic/professional backgrounds, skills, GPA, language scores)
- Contact names and information of 3 references.

Graduate School requirements and deadlines

Please visit the Graduate School website here (<https://gradschool.princeton.edu/academics/fields-study/civil-and-environmental-engineering>) for information on application requirements and deadline. All the Graduate School deadlines and requirements must be met. Encouragement to apply does not guarantee admission; only the Graduate School is authorized to admit students. The Graduate School deadline for CEE is Dec. 31, 2020.

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Contact. Prof. Reza Moini
Department of Civil and Environmental Engineering
Princeton University
Website: <https://cee.princeton.edu/people/reza-moini>

Contact Information

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

Contact Prof. Reza Moini
Civil and Environmental Engineering
Princeton University
Princeton, NJ