

Post-Doctoral Researcher
Arizona State University

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Posted Aug. 29, 2025, set to expire Dec. 29, 2025

Job Title	Post-Doctoral Researcher
Department	Mechanical Engineering
Institution	Arizona State University Tempe, Arizona
Date Posted	Aug. 29, 2025
Application Deadline	Open until filled
Position Start Date	Fall 2025 or Spring 2026
Job Categories	Post-Doc
Academic Field(s)	Structural Engineering Mechanical Engineering Material/Metallurgy Manufacturing & Quality Engineering Engineering Physics Engineering Mechanics Civil Engineering Aerospace/Aeronautical/Astronautics

Apply By Email

Job Description

We are seeking one postdoctoral researcher at Arizona State University (ASU) in Tempe, AZ. This position focuses on the interplay between plasma and materials under extreme conditions for semiconductor applications. We highly encourage candidates with a strong research background in plasma physics, instrumentation, processes, or related fields to apply. The position is set to begin in Fall 2025 or Spring 2026.

This project is supported by a leading semiconductor company, Applied Materials. The successful

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candidate will have unique research opportunities to collaborate with experts from universities and national laboratories, as well as from Applied Materials. The selected candidate will be co-advised by Professors Eric Nian and Wonmo Kang.

Applications will be reviewed immediately until the position is filled. Interested candidates should submit a detailed CV to Qiong.Nian@asu.edu and provide information regarding their qualifications based on the eligibility criteria below.

Eligibility Criteria

1. Self-motivated individuals with a PhD in Materials Science and Engineering (MSE), Mechanical Engineering (ME), Physics, or other relevant disciplines.
2. A research background in plasma physics, instrumentation, processes, or related fields.
3. The ability to work in the US.
4. Hands-on experience in designing and setting up plasma systems or vacuum chambers for material processing (e.g., deposition or etching) is a significant plus.

Support Offered

1. Salary will be negotiable based on the candidate's research experience.
2. Funding for conference travel will be provided.
3. Funding is available for up to three years.

Contact Information

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

Contact Qiong Nian
Mechanical Engineering
Arizona State University
Tempe, AZ