One Post-Doctoral fellow
Arizona State University

Job Title	One Post-Doctoral fellow
Department	Mechanical Engineering
Institution	Arizona State University Tempe, Arizona
Date Posted	Jul. 7, 2025
Application Deadline	Oct. 1, 2025
Position Start Date	Fall 2025
Job Categories	Post-Doc
Academic Field(s)	Mechanical Engineering Material/Metallurgy Engineering Physics Electrical and/or Electronics Civil Engineering Aerospace/Aeronautical/Astronautics
Apply By Email	wonmo.kang@asu.edu

Job Description

We are seeking one postdoctoral fellow at Arizona State University (ASU) in Tempe, AZ.

This position focuses on ***Plasma-material interplay in extreme conditions*** for semiconductor applications. Candidates with a strong research background in plasma physics, instrumentation, processes, or other relevant fields are highly encouraged to apply. The position is set to begin in Fall 2025.

This project is supported by a leading semiconductor company, Applied Materials. The successful candidate will have unique research opportunities to work with collaborators from universities, national

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laboratories, as well as Applied Materials. The selected candidate will be co-advised by Profs. Eric Nian (https://labs.engineering.asu.edu/mmmp/) and Wonmo Kang (https://wonmokang3.wixsite.com/website).

Applications will be immediately reviewed until the positions are filled. Interested candidates should submit a detailed CV to wonmo.kang@asu.edu and provide detailed information regarding the listed eligibility below.

1. Eligibility:
    1. Self-motivated individuals with a PhD degree in MSE, ME, Physics, or other relevant disciplines.
    2. A research background in plasma physics, instrumentation, processes, or relevant fields
    3. Ability to work in the US
    4. A hands-on experience on designing and setting up plasma systems or other vacuum chambers for material processing, e.g., deposition or etching, will be a big plus

2. Support:
    1. Salary will be negotiable depending on the candidate’s research experience
    2. Funding for conference travel will be provided
    3. The fund will be available up to 3 years

Contact Information

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

Contact Wonmo Kang
Mechanical Engineering/Materials Science & Engineering
Arizona State University
Tempe, AZ