

Postdoctoral Associates and Ph.D. Positions

We are seeking two highly motivated postdoctoral researchers and three Ph.D. students to join our research team (<http://www.archimetalab.com/>) in the Department of Mechanical Engineering at Florida State University (<https://eng.famu.fsu.edu/>). These positions are available immediately. Our focus is on investigating the mechanics of multiphase architected materials and the multiphysics of all-solid-state batteries.

Responsibilities for Ph.D. Students

- Collaborate with a multidisciplinary team of researchers to design and fabricate multiphase architected materials using advanced manufacturing techniques.
- Conduct dynamic experiments to analyze the impact response of architected materials.
- Test the effects of external pressure and temperature on the electrochemical performance of ASSBs.

Responsibilities for Postdoc Associates

- Develop computational models to gain insights into the energy dissipation mechanisms of multiphase architected materials under high-velocity impact.
- Develop mechano-electro-chemical models to understand the relationship between external pressure and the electrochemical performance of ASSBs.

Requirements for Postdoc Associates

- A Ph.D. in mechanical or civil engineering or a related field.
- Strong background in solid mechanics, constitutive modeling, and multiphysics modeling. Experimental experience is preferred but not required.

Requirements for Ph.D. Students

- A master's degree in mechanical, civil engineering, materials science, or chemistry.
- Experience with mechanical testing and 3D printing is preferred but not required.

Duration and Remuneration

- The postdoc position is a full-time role with an initial appointment of one year, renewable based on performance and funding availability. The salary will be competitive and commensurate with qualifications and experience.
- Ph.D. students will be fully funded, including tuition, health insurance, and stipend.

Application Instructions

Interested candidates should submit the following documents to yanyu.chen@fsu.edu:

- Curriculum vitae (CV), including a list of publications.
- Contact information for at least two professional references.

Note: All applications will be treated confidentially. Only shortlisted candidates will be contacted for an interview. Please feel free to reach out if you have any further questions or require additional information.