

Postdoctoral Fellow – Materials Characterization

Applications are invited for a Postdoctoral Fellow in the Department of Mechanical Engineering at the University of Memphis in the area of materials characterization with applications to cavitation erosion. The candidate will have the opportunity to work in a large collaborative study on cavitation erosion with NSWC Carderock Division and the University of Michigan. The research effort is funded by the Office of Naval Research to conduct experimental cavitation erosion studies and materials characterization to better understand, predict, and address cavitation erosion. The team will employ facilities that range from the model scale to full scale tests in the US Navy's William B. Morgan Large Cavitation Channel.

Minimum Qualifications:

- PhD in Materials Science and Engineering, Metallurgy, or another relevant field
- A strong academic record as evidenced by publications in peer-reviewed journals
- Excellent written and oral communication skills
- Research experience in one or more of the following areas: microstructural characterization (SEM, EBSD, TEM) and mechanical characterization (quasi-static and high-strain rate mechanical testing, microhardness, nano-indentation)
- Good skills in project planning, project management, and documentation
- Currently authorized to work in the United States at the time of employment

This is a 12-month research position in the Department of Mechanical Engineering in Dr. Amir Hadadzadeh's research lab. Further appointment will be contingent upon performance and availability of funding. Send any questions about the position to Dr. Amir Hadadzadeh at amir.hadadzadeh@memphis.edu

Applications are to be submitted via <https://workforum.memphis.edu>. Click on the faculty box to find the posting for the Post-Doctoral position in Mechanical Engineering. Applications must include a single PDF document which includes a cover letter with areas of research interest that align with this position; CV with list of publications; and names and contact information for three references. Review of candidates will begin immediately and continue until the position is filled.

The University of Memphis is a Carnegie R1 institution with very high research activity.

The University of Memphis is an Equal Opportunity/Affirmative Action employer. We urge all qualified applicants to apply for this position. Appointment will be based on qualifications as they relate to position requirements without regard to race, color, national origin, religion, sex, age, creed, sexual orientation, gender identity/expression, genetic information, disability, veteran status or any other legally protected class.