

## **Post-doctoral Researcher Positions in Mechanical Engineering, Aerospace Engineering, and Physics in Dynamics&Vibrations, Metamaterials, Additive Manufacturing, and Mechanics**

Post-doctoral research associate positions are available in the Mechanical Engineering, Aerospace Engineering, and Physics Departments at the University of Michigan, Ann Arbor. The postdoctoral researchers will work with Professors Serife Tol, Ellen Arruda, Xiaoming Mao, and Anthony Waas on a new project sponsored by DARPA.

These postdoctoral researchers will be collectively mentored by the aforementioned faculty members on the team. The work spans a wide range of fundamental questions and new techniques around the central goal of vibration isolation and stabilization of novel space structures. Examples of projects involve development of new techniques and structural design concepts, validation of measurements, topological mechanical metamaterial designs, and fabrication via advanced manufacturing.

The successful candidates will be expected to contribute to the development of novel metamaterial technologies and publications, and collaborate with the partners involved in the project. There will be opportunities to work in an innovative area and present work to sponsors and at conferences to a larger audience.

The ideal candidates will have experience in one or more of the following fields: structural dynamics, mechanical vibrations, wave propagation, metamaterials, topological mechanics, phononic crystals, prototype design, experimental testing, signal processing, and advanced manufacturing. Previous experience with vibration and wave propagation testing, COMSOL (or similar Finite Element) software, metamaterials, or advanced manufacturing is a plus. A strong publication record is expected and an excellent work ethic is a must.

Review of applications will begin immediately and continue until a suitable candidate is found - while the start date is flexible, the target is as soon as possible.

### **How to apply?**

Please submit your application together with all relevant enclosures via email to [stol@umich.edu](mailto:stol@umich.edu). Please indicate "U-M Postdoc Application – Your Name" in the subject line.

The following documents must be included in your application:

1. Cover letter
2. Curriculum vitae including a list of publications
3. All transcripts
4. Three references (including last supervisor, and Ph.D. and M.S. advisors if applicable.)  
Please indicate the relationship to the references.
5. Brief (one page) research statement describing their previous research accomplishments

### **For further information, please contact**

Prof. Serife Tol

Assistant Professor

Mechanical Engineering, University of Michigan

3674 G.G. Brown Building, 2350 Hayward Street, Ann Arbor, MI 48109-2125

Email: [stol@umich.edu](mailto:stol@umich.edu)