

Postdoc Opening in Mechanics of 4D Printed Structures at Johns Hopkins University (1/1/2025 – 12/31/2025)

We are looking for a **Postdoc Fellow** in the area of **structural mechanics (4D printed morphing structures)**. The successful candidate will work with Prof. Feng Zhu (<https://fzhu.wse.jhu.edu/>) in Hopkins Extreme Materials Institute (HEMI), Johns Hopkins University on a fully funded research project.

Duties

- Design, fabricate and conduct mechanical tests and numerical simulations on **morphing structures** with **programmable materials** such as shape memory polymer or other similar materials
- Write technical reports, papers and research proposals
- Guide the graduate students in the group

Requirements

- PhD in Mechanical/Aerospace/Structure/Material Engineering or other close areas
- **Fluency in Finite element modeling techniques (e.g. LS-DYNA, ABAQUS etc.)**
- Research experience of **smart materials** is highly desired
- Basic experimental skills and experience (MTS/Instron, 3D printing)
- Basic knowledge of fluid/solid interaction (FSI) modeling
- Knowledge of optimization and machine learning is a plus
- Good communication and writing skills

Others

- Competitive salary (refer to NIH salary levels)
- World class research environment at Johns Hopkins University
- Current appointment is 12 months (**1/1/2025-12/31/2025**); Renewal is possible based on funding availability and mutual interest

Interested candidates please send me a single PDF containing CV, and name/contact information of three references to fzhu8@jhu.edu. **Email subject: “postdoc in structural mechanics at JHU”**.