

## Postdoc fellow in mechanical design and digital manufacturing University of Connecticut

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Downloaded On: Nov. 24, 2025 10:46am Posted Aug. 2, 2025, set to expire Dec. 2, 2025

Job Title Postdoc fellow in mechanical design and digital

manufacturing

**Department** Mechanical Engineering **Institution** University of Connecticut

Storrs, Connecticut

Date Posted Aug. 2, 2025

**Application Deadline** Aug. 24, 2025

**Position Start Date** Available immediately

Job Categories Post-Doc

Academic Field(s) Robotics

Mechanical Engineering

**Apply By Email** 

**Job Description** 

Job Title: Postdoctoral Fellow

School of Mechanical, Aerospace, and Manufacturing Engineering, University of Connecticut

**Supervisor**: Hongyi Xu, Associate Professor (effective 8/23/2025)

## **Position description**

A Postdoctoral Fellow position is available at the Computational Engineering and Design (CEaD) Laboratory in the School of Mechanical, Aerospace, and Manufacturing Engineering, University of Connecticut. The postdoctoral fellow will work with Dr. Hongyi Xu on one or more of the following research topics: (1) generative design of architectured materials, (2) generative AI-assisted manufacturing process modeling and uncertainty quantification, and (3) resilient cyber manufacturing systems. Please submit your CV and names of at least two references to hongyi.3.xu@uconn.edu. At



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least one reference should be in your current institution.

### **Essential functions**

- 1. Develop computational design methods and deep learning models
- 2. Set up experiments and conduct tests as needed
- 3. Publish peer-reviewed journal papers and attend conferences to disseminate research
- 4. Assist the PI to advise graduate and undergraduate students

### Qualifications

- 1. PhD in mechanical engineering, computational mechanics, robotics, or related fields
- 2. Research experience in artificial intelligence and engineering design
- 3. Experience in FEA and/or multiphysics simulation
- 4. Experience in topology optimization is a plus
- 5. Experience in manufacturing process control is a plus
- 6. A green card is not required; however, green card holders may have a higher chance of securing multi-year funding for this position.

### **Contact Information**

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

Contact Hongyi Xu

University of Connecticut

Storrs, CT 06269