The Metamaterials and Advanced Structure Lab (MAS Lab) in the Civil, Architectural, and Environmental Engineering (CAEE) at the University of Texas at Austin has two funded PhD positions in mechanical metamaterials, additive manufacturing, and deployable structures starting in Fall 2023 (apply before Dec/015/22).

Qualifications

A bachelor's or a master's degree in civil engineering, engineering mechanics, mechanical engineering, aerospace engineering, applied physics, or related fields are preferred.

Candidates with experience in the following areas will have priority (1) solid mechanics; (2) Finite Element Analysis; (3) additive manufacturing, (4) structural engineering, (5) experimental testing, and (6) machine learning.

Application instructions

Please visit https://cockrell.utexas.edu/admissions/graduate to apply for Civil Engineering (structural engineering)

Interested candidates are also encouraged to send an email with the title [Prospective PhD student]" to yunlan.zhang@austin.utexas.edu

About CAEE at UT Austin

The Department of Civil, Architectural and Environmental Engineering (CAEE) in the Cockrell School of Engineering is one of the largest, most extensive departments of its kind in the U.S. With 10 graduate specialties, over 10,000 living alumni, over 1,200 undergraduate and graduate students, over 50 faculty members and a 22:1 student/faculty ratio, Texas CAEE is a tight-knit community of likeminded civil, architectural and environmental engineers who truly believe that we can change the world through engineering.

#6 best engineering graduate program in the U.S. (U.S. News & World Report, 2023)

#6 civil engineering program in the U.S. (U.S. News & World Report, 2022)

#38 among all universities in the U.S. (U.S. News & World Report, 2022)

About MAS Lab

The mission of MAS Lab is to create mechanical metamaterials and advanced structures with innovative properties that can be used to upgrade existing structures, as well as create new structures that are more resilient to extreme demands.

About PI

I received my B.S. in Civil Engineering from The Ohio State University and then went on to pursue a PhD at Purdue University, where I studied mechanical metamaterials and bioinspired materials. Metamaterials are engineered to have novel properties not found in naturally-occurring materials. I then worked for approximately two years at the University of Oxford, applying this knowledge to the design of deployable medical devices. These experiences showed me the versatility of a civil engineering education. I enjoy working with students just as much as conducting research, and invite students interested in developing innovative structures to apply to join my lab.