

**Postdoctoral Position**  
**University of Massachusetts Amherst**

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Posted Sep. 25, 2025, set to expire Jan. 25, 2026

<b>Job Title</b>	Postdoctoral Position
<b>Department</b>	Department of Biomedical Engineering
<b>Institution</b>	University of Massachusetts Amherst Amherst, Massachusetts
<b>Date Posted</b>	Sep. 25, 2025
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Mechanical Engineering Engineering Physics Electrical and/or Electronics Biomedical Engineering & Bioengineering

**Apply By Email**

**Job Description**

**Position Title:**

Postdoctoral Position in Biomedical Ultrasound Research Lab

**Location:**

Appointment: Department of Biomedical Engineering, University of Massachusetts Amherst

Laboratory location: UMass Chan Medical School, Worcester, MA

**Overview:**

The Biomedical Ultrasound Research Lab, led by Dr. Hsiao-Chuan Liu (Assistant Professor, UMass Amherst BME), is seeking a highly motivated Postdoctoral Research Associate. The lab is physically based at UMass Chan Medical School and focuses on developing and translating advanced ultrasound imaging technologies to quantify tissue biomechanics. Current research emphasizes **ultrasound shear wave elastography**

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, **wearable ultrasound imaging systems**, and **optical coherence elastography (OCE)**. The position encourages interdisciplinary collaboration between engineering, fundamental science and clinical domains.

**Responsibilities:**

- Develop and implement research in ultrasound elastography, shear wave imaging, OCE, and wearable ultrasound systems
- Design and execute experimental protocols; analyze data and publish results in peer-reviewed journals
- Present findings at appropriate conferences or seminars
- Mentor graduate and undergraduate trainees as needed

**Required Qualifications:**

- Ph.D. in Biomedical Engineering, Electrical Engineering, Mechanical Engineering, Physics, Seismology or a closely related discipline
- Demonstrated strong background in hands-on experience in ultrasound imaging, shear wave elastography or OCE
- Familiar with the **Verasonics ultrasound system**
- Technical proficiency in signal and image processing, MATLAB, and hardware prototyping
- Proven publication record in peer-reviewed journals
- Highly enthusiasm in research

**Preferred Qualifications:**

- Familiar with numerical simulations in elastic waves or acoustic waves
- Familiar with soft material or meta material designs

**Compensation:**

Salary will follow the NIH Postdoctoral Fellow stipend scale, commensurate with experience.

**Application Instructions:**

Applicants must submit the following materials via email to [hcliu@umass.edu](mailto:hcliu@umass.edu).

1. Cover letter outlining scientific interests and career objectives
2. Curriculum vitae, including a comprehensive list of publications
3. Contact details for three professional references

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Review of applications will begin immediately and continue on a rolling basis until the position is filled.

**Contact Information**

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

**Contact**

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