

We are seeking highly motivated candidates for Postdoctoral Researcher or Staff Scientist positions to develop **integrated microphysiological systems** at Dartmouth College. This interdisciplinary research integrates embedded systems, microfabrication, microfluidics, organs-on-a-chip, and systems engineering, bringing together expertise from engineering and the biological sciences. We seek researchers who thrive in collaborative, cross-disciplinary environments and are passionate about developing innovative technologies.

Qualifications

Applicants should have a Ph.D. in Electrical Engineering, Mechanical Engineering, Chemical Engineering, Biomedical Engineering, or a closely related field, with expertise in **at least two** of the following areas:

- Circuit design and embedded systems
- Microfabrication and MEMS
- Microfluidics and organs-on-a-chip
- System integration, prototyping, and packaging

Excellent communication skills, creativity, and the ability to work effectively in interdisciplinary teams are highly desirable.

Mentorship and Support

The positions are supported by federal funding and are part of Dartmouth's **Cluster for Improving Healthcare Outcomes through Sensory Technology**, an institutional research initiative led by Dr. Tam Vu. Successful candidates will be co-mentored by **Dr. Tam Vu** (HumanX Lab) and **Dr. Wei Ouyang** (Bio-integrated Microsystems Lab) and will collaborate with researchers across engineering, medicine, and the life sciences.

How to Apply

Interested candidates should email the following materials to Dr. Tam Vu (tam.n.vu@dartmouth.edu) and Dr. Wei Ouyang (wei.ouyang@dartmouth.edu):

- Curriculum vitae
- Brief statement of research interests
- Contact information for three references

The target start date is **October 1, 2026**.

HumanX Lab: <https://humanx.dartmouth.edu>

Bio-Integrated Microsystems Lab: <https://ouyanggroup.com>