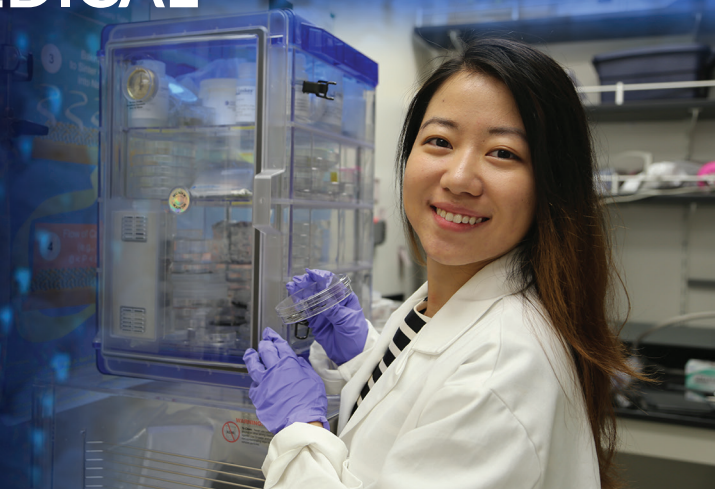


GRADUATE PROGRAM ANDREW & PEGGY CHERNG DEPARTMENT OF MEDICAL ENGINEERING



The Andrew and Peggy Cherng Department of Medical Engineering at Caltech applies engineering principles in the health sphere. Our goal is to design and fabricate devices and systems for translational medicine—including imaging, diagnostics, therapeutics, and implants—that will lead to cheaper, more effective, and more accessible health care.

In light of the increasing complexity and prevalence of engineering in medicine, the department brings together experts in the fields of aerospace engineering, applied physics, biological engineering, chemical engineering, computer science, electrical engineering, materials science, and mechanical engineering.

www.mede.caltech.edu

GRADUATE DEGREE PROGRAM

Medical Engineering

Ph.D. Degree (M.S. included)

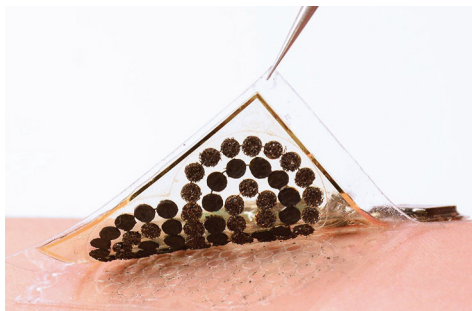
ADMISSIONS INFORMATION

www.gradoffice.caltech.edu

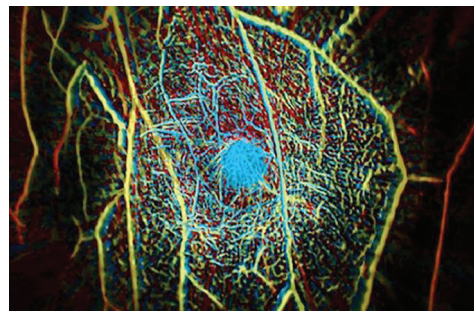
All applications must be submitted online through the Graduate Admissions website. The Cherng Department of Medical Engineering focuses on PhD-level research and does not accept students for a Master's-only program. All qualified applicants will be considered. Women and members of minority groups are especially encouraged to apply. Financial assistance for application fees is available for those who qualify.



Glowing Contact Lens to treat diabetic retinopathy.



Electronic skin fully powered by sweat can monitor health, serve as human-machine interface.



Depth-encoded angiogram of a healthy human breast acquired using Photoacoustic Computed Tomography.

OUR FOCUS

The Medical Engineering graduate program at Caltech is designed for students with an engineering background who are interested in applications of micro-/nanoscale science and technology in medicine. The program's goal is to close the gap between engineering and medicine.

Our graduate program leverages Caltech's strengths in engineering, applied science, and other fundamental fields to apply emerging technological advances to medicine. Students benefit from an innovative, interdisciplinary environment as well as access to collaborations with leading medical institutions including the Keck School of Medicine at USC, the Geffen School of Medicine at UCLA, City of Hope, UCSF School of Medicine, Huntington Memorial Hospital, and Huntington Memorial Research Institutes.

RESEARCH AREAS

- Affordable Medical Devices and Technologies
- Artificial Intelligence
- Biomaterials
- Biomechanics & Bio-Inspired Design
- Biomolecular, Cellular and Gene Therapies
- Medical Diagnostic, Monitoring, and Therapeutic Implants
- Medical Diagnostic and Monitoring On-Chip Devices
- Medical Imaging and Sensing
- Medical Nanoelectronics
- Micro/Nano Medical Technologies and Devices
- Molecular and Cellular Imaging and Theranostics
- Nano & Micro Fluidics
- Prosthetics
- Quantum Imaging and Physics
- Wireless Medical Technologies

OPTION MANAGER

Christine Garske
ccgarske@caltech.edu

www.mede.caltech.edu