Become a leader in the field of translational medicine with a unique one-year professional master’s degree offered jointly by two of the world’s premier research universities.

Accelerate your career as you develop new skills in bioengineering, product design and development, intellectual property, entrepreneurship, clinical research, and healthcare finance.

Gain real-world experience by working on an integrative, team-based capstone project sponsored by experts from academia, industry, and clinical research organizations.

Live, work, and play in the beautiful San Francisco Bay Area, and join our expanding network of medical innovators.

Applications are open to engineers, scientists, and clinicians with a passion for healthcare technology. Those in related fields and/or with additional advanced degrees (MD, PhD, RN, JD, etc.) are also encouraged to apply.
Build the future of healthcare

Are you passionate about creating new medical technologies and improving healthcare delivery?

Successful medical innovation requires more than just exceptional science; it demands a unique interdisciplinary skill set to navigate the pathway between laboratory benchtop and patient bedside. Traditional advanced degree programs in bioengineering or clinical research offer a fraction of this knowledge, but very few programs provide complete training in the translation of new medical technologies.

The Master of Translational Medicine (MTM) program is a one-year professional degree designed specifically to teach students how to solve clinical problems using modern engineering tools and a structured approach to medical technology development.

Offered jointly by the College of Engineering at UC Berkeley and the Schools of Medicine and Pharmacy at UCSF, the MTM program gives students an unparalleled opportunity to become leaders in medical technology innovation.

Interdisciplinary curriculum

MTM students engage in coursework covering three main topic areas.

- **Bioengineering** — Learn principles of engineering design in biological systems, and deepen your technical expertise with targeted electives in your area of interest. Examples include medical devices, pharmaceuticals, molecular diagnostics, medical imaging, tissue engineering, and health IT.

- **Clinical R&D** — Discover unmet needs in medicine, and learn to navigate the complexities of the healthcare and regulatory systems. Coursework topics include medical principles, physiology and disease, clinical research methods, design of clinical trials, and healthcare economics.

- **Business, entrepreneurship, and technology** — Develop professional leadership skills with focused training in the management of medical technologies, and gain the confidence and ability to collaborate with industry experts and direct new translational ventures.

Integrative Capstone projects

The MTM program culminates with a capstone design project sponsored by a client from academia, industry, or a hospital/clinic. Student teams address various translational issues including clinical needs-finding, intellectual property, product design, R&D, cost analysis, and business and regulatory strategy. Project work seamlessly integrates with MTM coursework to create a comprehensive year-long translational experience.

Capstone projects are drawn from a broad range of focus areas such as therapeutic design and delivery, construction of medical devices, tissue engineering and regenerative medicine, health IT, medical imaging, and point-of-care diagnostics. Examples of previous projects include:

- Designing a cloud-enabled device to monitor heart failure at home
- Using a 3D imaging platform to increase intuition in medical visualization
- Testing a nanofibrous dural substitute for enhanced tissue regeneration

“This program gave me the confidence to not just be a successful bioengineering scientist, but also a knowledgeable leader in biomedical business.”

– Derek Dashti, 2011