



“The MS-MPE program is quick and intensive; it’s not a traditional research program. If you want to understand how companies work and what it really takes to bring a medical product to the people who need it, this is a fantastic program.”

Medical Product Engineering (MPE)

Professional Master of Science and Graduate Certificate

Offered on-campus with a distinct focus on the healthcare industry

WHY STUDY MPE AT THE UNIVERSITY OF PITTSBURGH?

Pitt’s **Professional MS in Medical Product Engineering** (MS-MPE) program applies engineering innovation to the identification of and solution to challenges in health care delivery in the medical industry. Students have the opportunity to work with the renowned University of Pittsburgh Medical Center in a city that has been named a U.S. tech hub to watch.

The program is offered by Pitt’s nationally ranked Department of Bioengineering (#12, *U.S. News and World Report*) in conjunction with the University of Pittsburgh Center for Medical Innovation (CMI). We offer hands-on, practical experience in medical product design and development that will prepare you for an industrial or academic career in the medical product engineering sector, which is expected to see a **23 percent growth in the next ten years**, according to the Bureau of Labor Statistics.

The 30-credit MS-MPE program leads student teams through all the steps to developing new products for the clinical marketplace. Through lectures, industry workshops, and real-world projects guided by highly-supportive clinical mentors, our students learn to apply methods of problem discovery and structured ideation to develop innovative solutions.

Upon graduation, 77 percent of our students enter industry careers with the remainder going to further graduate work, medical school, and other related fields. **Within 6 months of graduation, 95 percent of the MS-MPE students wishing to join industry found employment at a mean starting annual salary of \$85,000.**

HOW CAN THE CENTER FOR MEDICAL INNOVATION BENEFIT YOU?

The Center for Medical Innovation (CMI) can help launch the careers of MS-MPE students. The CMI aims to stimulate, guide, and promote the development and commercialization of technological innovation to improve healthcare. As of 2019, 70 early-stage projects have received seed funds totaling more than \$1,350,000 from the CMI out of 270 competitive proposals considered since the program’s inception in 2012. The MS-MPE program is a part of the educational mission of the CMI to train the next generation of medical product innovators, managers, and developers.

ADMISSIONS REQUIREMENTS

BS in bioengineering/biomedical engineering

OR

BS in any other engineering field.

NOTE: *Candidates with other educational and professional backgrounds will be considered on an individual basis with strong emphasis given to academic promise, career orientation, work experience, and preparation in engineering and related disciplines.*

If you would like to apply for financial assistance, please submit your application by December 1.

FOR MORE INFORMATION AND TO APPLY

engineering.pitt.edu/graduate



“The MS-MPE program taught me to think like an entrepreneur without losing my scientific mind.”

Medical Product Engineering (MPE)

Professional Master of Science and Graduate Certificate *(continued)*

Required for professional MS-MPE (30 credits)

- Four courses in Medical Product Engineering/Innovation (12 credits)
- Medical Ethics (3 credits)
- Graduate Engineering Mathematics or Statistics (3 credits)
- Graduate Engineering/Science Electives (12 credits)

Full-time students are required to complete part-time internship (paid, unpaid, or for credit) with an industry partner or related entity. The schedule of classes currently offered are listed on our website at engineering.pitt.edu/courses.

The 30-credit MS-MPE program (including internship/co-op) can be completed in 16 months as a full-time student.

Dual Degree – MBA/MS-MPE

Take your MS-MPE degree to the next level through Pitt’s **Dual MBA/MS-Engineering Joint-Degree Program** offered by the Joseph M. Katz Graduate School of Business and the Swanson School of Engineering. Contact persons listed to the right or visit katz.business.pitt.edu/mba/joint-and-dual/engineering for more information about this program’s application requirements.

Graduate Certificate in Medical Product Innovation (C-MPI)

For those seeking a shorter alternative to the MS-MPE program, we offer a 15-credit Graduate Certificate in Medical Product Innovation (C-MPI) program. Anyone who holds at least a 4-year baccalaureate degree is eligible to apply. This is a great option for working professionals in the healthcare industry looking to enrich their career.

Required for Graduate Certificate in Medical Product Innovation (15 credits)

- Two courses in Medical Product Innovation (6 credits)
- Medical Ethics (3 credits)
- Entrepreneurship/Engineering Management (3 credits)
- Legal Aspects of Medical Product Innovation (3 credits)

DELIVERY	TOTAL CREDITS	ENTRANCE EXAM	ADDITIONAL ADMISSIONS REQUIREMENTS
<ul style="list-style-type: none"> • On-Campus 	<ul style="list-style-type: none"> • MS-MPE – 30 • C-MPI – 15 	<ul style="list-style-type: none"> • GRE (<i>not required for C-MPI</i>) • TOEFL (<i>required for international students</i>) 	<ul style="list-style-type: none"> • Minimum two letters of recommendation • Unofficial transcripts

For more information, please contact:

KILICHAN GURLEYIK, DSc

*Education Director, CMI
Assistant Professor of Bioengineering*

412-648-8071 | gurleyik@pitt.edu

STEPHANIE OPALINSKI, MBA

*Senior Manager of Graduate Engineering
Program Recruitment*

412-383-7027 | stephanie.opalinski@pitt.edu

University of Pittsburgh

Swanson School of Engineering
Department of Bioengineering
Benedum Hall | 3700 O’Hara Street
Pittsburgh, PA 15261



engineering.pitt.edu/bioengineering



UNIVERSITY OF PITTSBURGH
CENTER FOR MEDICAL
INNOVATION

engineering.pitt.edu/cmi

The information printed in this document was accurate to the best of our knowledge at the time of printing and is subject to change at any time at the University’s sole discretion.

The University of Pittsburgh is an affirmative action, equal opportunity institution.
07/19