

## Master of Science in Health Systems Management Engineering

The U.S. Healthcare System is facing huge challenges from pandemics; staffing shortages and resignations; a supply chain crisis; health disparities and access to care inequities; digital and other technological advances; rising costs; value-based reimbursement models; and more. Highly skilled health care professionals are critically needed and essential to developing innovative solutions to these problems and transforming how health care services are delivered.

### PROGRAM OVERVIEW

The Master of Science in Health Systems Management Engineering (HSME) Program, offered by the USC Viterbi School of Engineering, in conjunction with the Keck School of Medicine, and Price School of Public Policy teaches these skills to Physicians, Nurses, Data & Information Technology Professionals, Quality Improvement & Patient Safety Specialists, and other Administrative and Operations Staff interested in leading this transformation. The program moves graduates to the forefront of healthcare innovation, re-imagining or re-engineering how health care can be more efficiently delivered, and better patient outcomes achieved.

The program can be customized to most student interests and allows for interdisciplinary studies.

### SKILLS & KNOWLEDGE ACQUIRED

- Advances in Digital and Mobile Health and Other Technology Developments
- Clinical Informatics, Artificial Intelligence, and Applied Health Care Data Science
- Industrial Engineering Problem-Solving Framework and Tools
- Operations and Process Redesign
- Supply Chain Analytics and Methods
- Quality Assurance and Performance Improvement Skills
- Project Management and Change Management Theory

This interdisciplinary skill set empowers healthcare professionals to become change agents and make impactful contributions to any health care problem, and in any health care setting.

Courses are taught by faculty members from different USC schools which provides students with instructors with expertise in multiple fields including: Industrial Engineering, Applied Data Science, Medicine & Healthcare, Public Policy & Administration, and Business Management.

### WORKING PROFESSIONALS

#### Enhance Current Value or Career Transition

The skills acquired in this MS program can be immediately used in an employee's current position to enhance their value or to help them transition into a new career path such as: Operations Redesign, Performance Improvement, Organizational Development, Innovative Start-up Companies, and Management Consulting.

### Flexibility

The MS in HSME has been designed with the working professional in mind, and has the flexibility that they need to excel. It can be done on a full-time or part-time basis; as an online, in-person or hybrid student; with both a full Master's or a Graduate Certificate available.

### APPLICATION DETAILS

Any bachelor's degree is an acceptable prerequisite, and a college-level statistics course meets the math requirement.

A generous grant from a donor has made scholarship funds available to attract strong candidates from the healthcare industry. Applications for the first round of scholarships are due by September 15, 2022, and for the second round they are due on March 1, 2023.

This program is eligible for federal FAFSA funding and Stafford loans.

### CONTACT INFORMATION

For more program information, please visit: [ise.usc.edu/healthcare-performance-improvement-program-at-usc](http://ise.usc.edu/healthcare-performance-improvement-program-at-usc)

For questions regarding the program, contact Professor David Belson at [belson@usc.edu](mailto:belson@usc.edu).



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