

**STRENGTHEN YOUR TECHNICAL
EXPERTISE WITH BUSINESS INSIGHT**

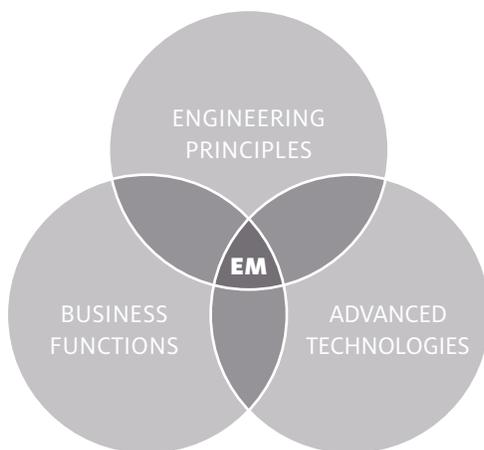
MASTER'S DEGREE PROGRAM IN

ENGINEERING MANAGEMENT

 | IE.UH.EDU

ABOUT THE MASTER'S IN ENGINEERING MANAGEMENT

Engineering Management (EM) bridges the gap between engineering and technological problem-solving abilities of engineers with administrative skills for leading the day-to-day operations of today's complex organizations within the current global economy. The scope of EM includes:



ENGINEERING MANAGEMENT PRINCIPALS

The industrial engineering department at the Cullen College of Engineering offers a 30-credit hour online Master's in Engineering Management degree.

Upon graduation, students will be well-versed in various engineering and management theories, concepts, tools, practices, and procedures essential for effective leadership and management within their organizations.

WHY THE UNIVERSITY OF HOUSTON?

The industrial engineering department at the UH Cullen College of Engineering is highly ranked, comprised of top-performing students and world-class faculty and researchers. Industrial engineering graduate students are taught by professors who actively conduct research in various areas, including healthcare, automotive and medical decision-making, homeland and port security, energy, quality, reliability and maintenance, logistics and transportation, as well as supply chains and manufacturing. Throughout their education, graduate students are exposed to professional and research opportunities.



Cullen College of Engineering
UNIVERSITY OF HOUSTON

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This program is designed for technical professionals seeking to advance into engineering leadership roles. In this online master's degree program, you will cultivate technical leadership skills through collaborative learning and teamwork. Throughout the curriculum, you will engage with theoretical frameworks and practical implementations, honing your abilities in management, collaborative problem-solving, interpersonal communication, and leadership. With these skills, you will gain the capability to challenge existing paradigms and effectively bridge technical innovations with the dynamic demands of the business environment.

- Leveraging AI to make business decisions with deep engineering expertise.
- Bridging gaps between general management and engineering management.
- Leadership in engineering amidst the dawn of digital innovation.

WHAT CAN I DO WITH AN ENGINEERING MANAGEMENT DEGREE?

The Master's in Engineering Management program meets the immediate needs of local industries by training the next generation of engineering managers. The program addresses the needs of integrating the engineering and management functions for high technology organizations. Graduates of the program will have the skills and knowledge necessary to manage functions across manufacturing, service, and technology organizations.

CORE COURSES

As part of the interdisciplinary nature of EM degree, courses within Cullen College of Engineering and Bauer College of Business are carefully selected to offer the best learning experience in the EM discipline. Students are required to enroll in six required core courses in IE Department in Cullen College of Engineering:

- ▶ **IEEM 6330** Managing Engineering Functions
- ▶ **IEEM 6331** Quantitative Methods for Engineering Management
- ▶ **INDE 6332** Engineering Project Management
- ▶ **IEEM 6335** Engineering Management of Organizations
- ▶ **IEEM 6360** Data Analytics for Engineering Managers
- ▶ **INDE 6380** Accounting for Engineering Managers

Two management selected courses from Bauer College of Business and two technical courses offered by Cullen College of Engineering in any engineering discipline selected by the student. All selected courses must be approved by the program director.



LEAD THROUGH INNOVATION AS AN END-TO-END ENGINEER

In the evolving landscape of complex organizations, there is an increasing demand for innovative leadership, offering opportunities for individuals who can merge technical proficiency with business acumen. An end-to-end engineer possesses a holistic perspective, leveraging data and interpersonal skills to make pivotal decisions and collaborate seamlessly across their organization with unparalleled zeal.

The Master of Engineering Management Degree Program at the University of Houston prepares you to steer your organization towards future success. Benefit from the guidance of seasoned faculty members with diverse industry backgrounds, as they impart real-world expertise in finance, marketing, operations, proactive problem-solving strategies, and business analysis. Through our program, you will acquire in-demand skills and practical insights, enabling you to understand how each decision you make as a leader influences your organization, its personnel, and the broader world.

Choose from our flexible online programs, meticulously crafted to elevate your work-life balance while furnishing you with the competitive advantage needed to ascend to the pinnacle of your field.



For more information on eligibility and admissions requirements, please visit www.ie.uh.edu/graduate/degree-programs/memgmt

