

Master's Degrees Engineering Management



GRADUATE STUDIES

Integrate Management And Engineering Skills

Rose-Hulman's master's degrees in engineering management provide students with a program that contributes to their growth and provides increased career opportunities. Engineering management students cultivate innovation, leadership, and entrepreneurial skills in a diverse and engaging environment that encourages networking with other professionals from a broad range of engineering- and technology-related disciplines.

Faculty in our engineering management program offer students a vast range of experience and are highly credentialed—100 percent have earned PhDs.

Degrees

The **master of science in engineering management (MSEM)** degree offers rigorous management and technical coursework and an integrated project experience. The **master of engineering management (MEM)** degree is offered for students who wish to pursue a course-based plan of study without an integrated project. Both degree programs include three one-day seminars that emphasize interaction with technical business executives and other engineering management students.

Our curriculum offers the management foundations of a MBA with an added technical focus.





Master of Engineering Management (MEM) Curriculum

- 20 credits of Technical Focus*
- 20 credits of Management Focus
- 8 credits of Graduate electives**
- 3 credits of Graduate seminar (EMGT511, 512, or 513)

Master of Science in Engineering Management (MSEM) Curriculum

- 20 credits of Technical Focus*
- 20 credits of Management Focus
- 8 credits of Integrated Project experience (EMGT590)
- 3 credits of graduate seminar (EMGT511, 512, or 513)

**Technically focused graduate courses can be taken from within the department or the campus at large.*

***The full list of approved graduate courses can be viewed by department at www.rose-hulman.edu/gradstudies.*

Integrated Project

The Integrated Project, known as “Project 590,” is considered the capstone course in the MSEM degree program. Projects can range from the complicated process of developing a new product to leading new engineering efforts.

Seminars

Each quarter the department hosts a full-day, one-credit-hour seminar on topics related to the engineering management discipline. The goals of the seminar are to expand on concepts presented in class or introduce new concepts/practices currently not being taught by our faculty. Recent topics have included:

- Consulting engineering
- Innovation management
- Ethics
- Globalization

Locations for seminars are on campus and at the Indianapolis facility.



At a Glance

Rose-Hulman’s graduate programs have a strong focus on applied research involving excellent faculty, facilities, and flexibility in a student’s plan of study to meet individual goals. The graduate studies programs at Rose-Hulman offer a supportive atmosphere focused on the growth and development of each student.

Class Options

Evening or day classes at Rose-Hulman.
Evenings at locations in Indianapolis.

Satisfied Alumni

"Getting my master's in engineering management gave me the opportunity to grow both professionally and personally. The experience with management, business, and larger-scale teamwork gave me a whole new perspective on how different facets of an organization work together to accomplish projects. I also gained a greater appreciation for how important soft skills, like interpersonal communication, are key to success in engineering and other areas."

| Jon Nibert, 2013, Product Development,
Ford Motor Company, Dearborn, MI

"My graduate degree in engineering management has made all the difference in moving my career forward. I took my current position after graduation. I have more responsibility and more opportunity to apply a broad range of engineering skills, and the result is that my job is much more rewarding now."

| Shawn Waltz, 2010, Fabri-Kal, Kalamazoo, MI

"Soon after graduation, I was promoted to a supervisory position. The engineering management program bolstered my technical background with a broad range of business, administrative, and leadership skills that have proven invaluable to this new job."

| Steve Corbin, 2012,
Naval Surface Warfare Center, Crane, IN

"Obtaining a master's degree in EMGT from Rose-Hulman was one of the best career decisions of my life. This decision has helped to open the doors to many different endeavors, as well as provide me with the confidence to achieve anything that I put my mind on."

| Lance Poehler, 2007, Jama Software, Portland, OR

"Receiving my master's degree in engineering management sets me apart from other job candidates—with the communication, leadership, and organization skills I gained from the program."

"This graduate degree has given me an excellent foundation to start and develop my career as a chemical engineer and become a successful leader in all aspects of work and other group organizations in the community."

| Bridget Goergen, 2011,
GEA Process Engineering Inc., Columbia, MD

"My engineering management master's degree built on the foundation of my BS in electrical engineering and enhanced the systems engineering and management training I had received in the Navy. This degree provided me with the tools to act as a supervisor, manager, and national leader of cutting-edge engineering technologies requiring the best in people, processes, facilities, and equipment in order to deliver the systems to enable our Nation's warfighters to ensure our freedom and well-being."

| J.R. Ross, 2002, Platform and Launch Systems
Division Manager, Naval Surface Warfare Center,
Crane, IN

Faculty

- Craig G. Downing, PhD, CMfgE, Department Head
- Eva Andrijcic, PhD, Assistant Professor
- Sa'd Hamasha, PhD, Assistant Professor
- Thomas James, PhD, Professor of Entrepreneurship
- William Kline, PhD, Associate Dean of Innovation
- Terry Schumacher, PhD, Associate Professor

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

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