

NJIT

New Jersey's Science &
Technology University

THE EDGE IN KNOWLEDGE

The Master of Science Program in Engineering Management



Department of Mechanical and Industrial Engineering

Newark College of Engineering

New Jersey Institute of Technology

WHY PURSUE A MASTER'S DEGREE IN ENGINEERING MANAGEMENT? A recent study of leadership at Standard and Poors 500 companies shows that the most common educational background for corporate Chief Executive Officers is engineering. Some 22 percent of the CEOs at the nation's largest companies earned engineering degrees, with far higher percentages in fields such as the chemical and pharmaceutical industries, transportation, and electronics manufacturing. According to the American Association of Engineering Societies, more than half of engineers find themselves in management roles within ten years of the start of their careers, often without the benefit of formal training in management. A graduate program in engineering management provides a technically-educated individual with skills in such areas as project management and control, cost estimating, financial analysis, total quality management and human resources management that are needed to make a successful transition into a managerial role.

WHY STUDY ENGINEERING MANAGEMENT AT NJIT? One of the first such programs in the nation, NJIT's MS in Engineering Management combines the unique capabilities of Newark College of Engineering and the School of Management in a course of study that prepares engineers and other technically trained individuals for leadership roles in a technologically-based, project-oriented enterprise. Although the program has been awarding degrees since 1950, the curriculum evolves continuously to fulfill the current needs of its students and the industries that employ them. The program prepares students with an advanced background in both the theoretical and practical aspects of managing technical/engineering projects and programs via case studies, role playing, and course work. The participation of students from diverse industries affords everyone the opportunity to learn from the experiences gained in industries other than their own. The engineering management program faculty bring to the classroom a critical blend of practical and academic experience.

WHAT DO THE GRADUATES SAY?

- "...the material has been so relevant to my work experience – I am very impressed"
- "I wanted to let you know how pleased I am with the NJIT Distance Learning program"
- "I never thought I would get so much from any one course"
- "I will be able to strategically and effectively operate in a facilities services based industry"

WHO TEACHES THE COURSES?

Distinguished faculty of the Department of Mechanical and Industrial Engineering and PMI-certified practicing professionals current in the dynamically changing industry trends. http://industrial.njit.edu/people/faculty_2.php

WHO SHOULD APPLY?

The program is particularly valuable to individuals who have a number of years of experience in industry, government, and service organizations, or those who have been entrepreneurs. It provides these professionals with broad-based knowledge and skills to succeed as organizational managers and project managers, from conceptualization through implementation.

IS PART TIME STUDY AVAILABLE?

Evening and weekend course offerings accommodate working professionals, who may pursue the degree part time.

WHERE IS THE PROGRAM OFFERED?

- NJIT's campus in Newark, NJ
- Extension sites in Cherry Hill, NJ as well as at several corporate sites
- Via distance learning mode

In addition, 12-credit graduate certificates in Construction Management, Operations Productivity, Pharmaceutical Management or Project Management, are available as a step toward this degree.

PROGRAM SUMMARY

Degree Awarded: Master of Science in Engineering Management
Credits Required: 30

Program Objective: To develop engineers and other technically-trained individuals for leadership roles in a technologically-based, project-oriented enterprise.

ADMISSIONS REQUIREMENTS

BS in engineering, the sciences or other closely-related areas
GPA of 2.8 on a 4.0 scale required.

Core Courses (18 Credits):

Acct 615	Management Accounting (3 credits)
EM 602	Management Science (3 credits)
EM 636	Project Management (3 credits)
HRM 601	Organizational Behavior (3 credits)
IE 673	Total Quality Management (3 credits)
MIS 648	Decision Support Systems for Managers (3 credits)

Project or thesis optional

Specializations

The range of possible specializations is broad, including:

- Project Management
- Cost Engineering
- Technical Marketing
- Technological Entrepreneurship
- Quality
- Facility Management
- Manufacturing Systems Management
- Management Information Systems
- Engineering Management
- Supply Chain Engineering

For program and course details, please see
<http://catalog.njit.edu/graduate/programs/engineeringmgmt.php>

FOR FURTHER INFORMATION, CONTACT:

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TO APPLY, CONTACT

Graduate Admissions
800-925-NJIT
www.njit.edu/admissions/graduate/howtoapply