The Master of Science in Engineering Management offers graduate students an opportunity to develop the technical expertise and the business competence that is in high demand among prospective technology-based employers. Industry leaders are seeking qualified and talented individuals who are able to direct and supervise development and production processes. The combination of technical proficiency and business skills fostered in the Engineering Management program provides a competitive edge for graduates seeking a wide range of positions in technology-based product or service industries, as well as in comparable local, state and federal programs.

Expanding Your Future
The program was designed by experienced high level managers and academic leaders as an option for engineers and scientists to broaden their skill sets to include management tools and techniques that are applicable to technology-based industries. Graduates of the Engineering Management program work as project managers, product managers, or leaders of teams in technical industries. Upon completion of the program, students find that their acquired skills are applicable to a wide range of industries primarily those focused upon the development of technical products and the management of technical projects. Graduates may assist companies in bringing a product from an idea through its development phases to its introduction to the marketplace. They may also be involved in forming and managing teams for assessing cost efficiencies, formulating strategies to improve production, or analyzing a company’s supply chain. Few of these projects can be successfully completed without the skills of those possessing a background in management decision making and engineering expertise; therefore, the Engineering Management graduate is often a technical liaison to management. As a result, many of these assignments have proven to be a gateway to upper level management positions.

Course Requirements
The program of study can be taken on a part time or full time basis. Four required core courses have been formulated to satisfy the foundation requirements. In addition the curriculum consists of electives which allow students to choose either a broad based program of study or one centered on a particular concentration. Some students may elect to enhance their technical skills in engineering-based subjects; other students may prefer to broaden their knowledge base by selecting coursework in management subjects such as engineering organizational psychology and financial management.

“Northeastern’s Engineering Management program provides a solid balance of engineering principles, leadership, and project management skills. With my MSEM degree, I have the ability and the confidence to get out of my comfort zone at work and successfully take on a broad range of assignments. This has laid the foundation for an eye-catching resume: the versatile engineering manager that the job market values highly.”

Yeliz Ozalp, MSEM’99, Associate Director, Supply Chain Development Group, at a large pharmaceutical company

For more information about this program: northeastern.edu/coe/gse/programs/EM