Innovation, in today’s competitive world, often requires leveraging new, unfamiliar technologies to create value. All too often, key business roles lack understanding of technology, and important technical roles are missing a grasp of the business and commercial facets.

At Carnegie Mellon University, we prepare technical professionals to be leaders of innovation and value creation with our unique MS in Engineering & Technology Innovation Management.
The E&TIM master’s program, established in 2007, is for professionals with strong engineering and science backgrounds who want to lead, foster and manage technical innovation and realize the value associated with technical opportunities.

E&TIM equips students with an understanding of innovation management fundamentals, perspectives of different roles in innovation, and real-world implications, building upon a first-rate engineering and technology foundation.

The design of the E&TIM program allows students to draw upon Carnegie Mellon’s strengths to develop their capabilities with highly individualized curriculums. E&TIM is offered by Carnegie Mellon’s highly rated College of Engineering with collaboration from the Heinz School of Public Policy, the Tepper School of Business, and the research program on Strategy, Entrepreneurship & Technological Change (SETChange). It is coordinated by the Department of Engineering and Public Policy.

The E&TIM program provides students with multiple ways to individualize their E&TIM curriculum to effectively satisfy their needs and objectives. Their program of study can be:

- One Year, Accelerated Full-Time Option
- Two-Year Part-Time Option
- Dual Degree Option w/ Traditional Engineering Departments
- Silicon Valley Option

The core of the E&TIM program emphasizes the fundamentals of innovation management in theory and practice. Electives, chosen in conjunction with an academic advisor, enable students to focus the program to their technical interests and to specific topics in technology innovation management. Industry participation in project courses, capstone projects and a required summer internship project provide hands-on, real-world experiential learning. Seminar courses, featuring speakers from the practice, offer opportunities for understanding the innovation ecosystems from multiple perspectives.
Fundamental Courses*
- Strategy & Management of Technological Innovation
- Managerial & Engineering Economics
- Finance for Innovation
- Leadership for Engineers
- R&D Management
- Marketing for Innovation
- Product Management
- Organizational Management

Innovation Management Courses*
- Commercialization & Innovation Strategy
- Entrepreneurship
- Designing & Leading a Business
- Open Innovation
- Ethnography
- Human Factors
- Human Computer Interaction
- Policy for Innovation
- Sustainable Engineering

Technical Courses*
- Students choose from many courses in the College of Engineering, School of Computer Science and Mellon College of Science to enhance their technical strength.

Innovation Leaders
After completion of the E&TIM program, students move to industry in key roles in innovation, leading product and technology development and engineering; developing business technology strategies; creating new technology ventures; and designing policies to encourage technological innovation.

Summer Internship Projects
- Required internship project provides hands-on experience with an organization leveraging technology

Capstone Projects
- Student teams synthesize and apply their education to create a business case for a technological innovation

* This is a sample list of required and elective courses. We add new courses and revise existing courses every year to respond to changes in the business environment and students’ interests.
Alumni

While some of our graduates stay in engineering to contribute to innovation, many others have used the versatility provided by the M.S. in Engineering & Technology Innovation Management degree to make significant contributions to innovation in a range of other roles and industries.

CONSULTING and PROFESSIONAL SERVICES
Accenture, Technology Analyst
Altran Europe, Innovation Consultant
Booz Allen Hamilton, Consultant
Deloitte Consulting, Consultant
HCL America, Associate Business Development Manager
IHS Group, Sr. Research Analyst
Kalypso, Sr. Consultant
Kern Communications, User Experience Researcher
Navigant, Management Consultant
PriceWaterhouse Coopers, Security Advisor
RAND, Project Associate
Syntel, Business Architect
Treacy and Co., Sr. Analyst

MANUFACTURING, MATERIALS & ENERGY
Aquion Energy, Technical Engineering Manager
Bayer MaterialScience, Innovation Manager
Beacon Power Corp., Power Systems Analyst
Corning, Optical R&D Engineer
Eaton, Engineering & Technology Leadership Program
Juno Lighting Group, Optical Engineer
Plextronics, Strategic Planning Manager
PPG, Technical Market Analyst
Raytheon, Systems Engineer
Robert Bosch, User Experience Researcher
Siemens, Market Analyst
Zodiac Aerospace, Program Manager

INFORMATION TECHNOLOGY
Abercrombie & Fitch, IT Leadership Development
Black Box, Associate Product Managers
Cadence Design Systems, Principal Product Engineer
Clarabridge, Associate Product Manager
Garmin, Software Engineer
HP, Project Manager – Customer Intelligence
Intel, Software Engineer
Microsoft, Program Manager
Mobiquity, Sr. Product Manager
Model N, Sr. Product Manager
Nativo, Project Manager
Qualcomm, Sr. Engineer
Sandisk, Program Analyst
Syniverse Technologies, Leadership Development Rotational Engineer

“"In the beginning, I wanted to ride the 'next big wave.' Now, I want to create it.” - E&TIM Alumnus

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