

A New, Accelerated Program to Equip Technical Professionals to Lead Innovation

In today's competitive world, business leadership often requires leveraging technology, as well as global management skills. Key roles in industry and consulting demand enhanced technical knowledge coupled with a critical understanding of innovation management. Carnegie Mellon's accelerated interdisciplinary Master's Program in Engineering and Technology Innovation Management (E&TIM) is for leaders who want to wield new technology in effective ways.

The E&TIM program is for candidates with science and engineering backgrounds who have the drive to:

- Lead technology development and engineering
- Create new technology-enabled ventures
- Develop business technology strategies
- Design policies to encourage technological innovation

E&TIM is designed to prepare technical professionals to lead innovation and manage value creation, building on a first-rate engineering and technology foundation.

The E&TIM program can be completed in one year of full-time study from January to December, including a summer internship project. Local students also have the opportunity to explore an option for part-time study over two years.

The program balances core courses with the flexibility of technical and innovation management electives. The program core equips students with the fundamentals

to understand and manage innovation. Through electives, students can tailor the program to their specific interests and needs.

Core courses of E&TIM include Managerial and Engineering Economics, The Strategy and Management of Technology Innovation, a Product or Process Innovation project, and Innovation Management in Practice seminars featuring industry speakers. A summer internship project provides a hands-on experience at a firm leveraging technology.

Electives serve two purposes. Technical electives enable students to strengthen their technical education in additional areas. Innovation management electives allow students to deepen their understanding in a variety of aspects of management that distinguish successful innovation, including business contexts and processes, policies, and organizational dynamics.

"Our vision is that the engineer of the future must be able to enable, manage, and deploy innovation in a multicultural, distributed environment."

Dean Pradeep Khosla

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ENGINEERING AND TECHNOLOGY INNOVATION MANAGEMENT MS

E&TIM is offered by Carnegie Mellon’s highly rated College of Engineering. It is coordinated by the Department of Engineering and Public Policy, with collaboration from the Heinz School of Public Policy, the Department of Social & Decision Sciences (in the College of Humanities & Social Sciences) and the Tepper School of Business. The program builds on a convergence of Carnegie Mellon strengths, including strong traditional engineering programs, the PhD and research program on Strategy, Entrepreneurship & Technological Change (SETChange), the Department of Engineering and Public Policy, the Integrated Product Development program, broad offerings in entrepreneurship education, and a history of successful educational collaborations across disciplines.

Technical focus areas include traditional technical disciplines and interdisciplinary choices. The College of Engineering includes Departments of Biomedical Engineering, Chemical Engineering, Civil and Environmental Engineering, Electrical and Computer Engineering, Engineering and Public Policy, Materials Science Engineering and Mechanical Engineering. Because of Carnegie Mellon’s broad technical strengths and interdisciplinary culture, exciting possibilities for technical focus areas in E&TIM may also be found at the intersections between disciplines. E&TIM students may also apply for dual degrees with traditional engineering programs. Contact E&TIM to learn more about the possibilities.

Innovation management electives span a range of courses in three main categories: a) Industrial R&D and Entrepreneurship, b) International Business and Science, Technology, and Innovation Policy, and c) Innovating in the Context of an Organization.

E&TIM OVERVIEW

**JANUARY
to MAY**

- ACADEMIC BLOCK 1:**
- Managerial & Engineering Economics
 - Strategy and Management of Technological Innovation
 - First Innovation Management and Technical Electives
 - Seminar on Innovation Management in Practice Featuring Industry Speakers



**MAY to
AUGUST**

- Hands-on Project-focused Internship at a Firm Leveraging Technology



**AUGUST to
DECEMBER**

- ACADEMIC BLOCK 2:**
- Product or Process Innovation Project
 - Completion of Innovation Management and Technical Electives
 - Seminar on Innovation Management in Practice

INDUSTRIAL PARTICIPATION

As a professional program, E&TIM makes multiple connections to real-world innovation issues in industry. Students in the program will have direct contact with industrial innovation through 1) the speakers of the Innovation Management in Practice seminar, 2) the industrial clients for the Product or Process Innovation Projects, and 3) the firms where they will undertake their summer internship.

E&TIM welcomes industrial supporters for the program. Supporters will benefit from the opportunity to interact with students in areas of particular interest to a firm. There are opportunities to recognize firms who provide student support scholarships or student internships.

**Explore the possibilities for your education,
your career, your company.
E&TIM at Carnegie Mellon.**