Executive Master in Science and Technology Leadership

Go Beyond a Traditional MBA

Decisions based solely on technology and financial factors have broken customer trust, decreased employee engagement, provoked punitive regulatory actions, and destroyed shareholder value.

Technology is driving change for customers, employees, governments, and financial markets at an unprecedented scale, creating never-before-seen business models along the way. This rapidly evolving climate requires a new type of leadership.

In this dynamic environment of seismic technological shifts, there is not typically one right answer, there are just different shades of how correct you might be. The more correct answer will emerge as you bring new perspectives or lenses to shed light on the critical questions and issues. This broader perspective adds insight from customers, governments, regulators and system constraints that will provoke discussions about ethical decision-making, data privacy, climate change, human-centered designs and artificial intelligence's impact on humans.

This complex world requires a unique master's degree for technology leadership that goes beyond a traditional MBA.

Participant Profile

EMSTL is an intensive masters program for mid-career technology professionals who want a larger leadership role. Participants demonstrate a strong track record of achievement. They have diverse backgrounds (e.g., technical/non-technical undergraduate degree, senior managers to the C-suite) and come from many industries.

This 16-month program is delivered in a global classroom that combines online learning with four face-to-face residential sessions and one international immersion session.

EMSTL delivers real outcomes.

- 84% of alumni promoted within a year of graduation
- 48% of students promoted while still in the program
- 24% of alumni promoted to VP or C-suite

ALUMNI TYPICALLY SEE A 2-3 YEAR PAYBACK ON THEIR INVESTMENT
Brown University has designed the Executive Master in Science and Technology Leadership (EMSTL) to deliver a transformational experience with courses in:

**Persuasive Communication**
Technology professionals that impact industry don’t just need good ideas. They need the ability to sell them. This course provides students with theory and individualized coaching to help them enhance their oral, written, and nonverbal persuasive communication skills.

**Effective Leadership: Theory and Practice**
Leadership is not a science. It is a craft honed through practice and study. In this course, students explore how leadership and strategy intersect and how leaders engage followers to create impact.

**Entrepreneurial Leadership in Innovative Firms**
In the context of global competition, developing entrepreneurial leadership skills enable individuals and organizations to create new innovations and identify growth opportunities. In this course, students learn how to form a strong entrepreneurial mindset that includes being persuasive, thriving under conditions of uncertainty and having a propensity to seek creative, learning opportunities.

**Psychological Perspectives on Strategic Decision Making**
This course introduces students to elements of social and cognitive psychology related to business, leadership and entrepreneurship. Students review two major perspectives on judgment and decision-making— trust and power—which distinguish riskless, risky and uncertain contexts for making decisions.

**Unlocking Value Globally**
If you’re a business professional in today's globalized economy, then the world is your oyster. This course examines how firms can mobilize worldwide knowledge to create commercial value and promote technological leadership.

**Technology Leadership in a Changing Environment**
This course takes a broad look at the factors that contribute to successful technology leadership in today’s fast-paced and ever-evolving environment. Through the lens of organizational effectiveness, value creation, addressing market needs and meeting customer expectations, students will discuss and examine best practices.

**Economic Perspectives on Strategic Decision Making**
Business leaders must make decisions in complex situations and often under tight deadlines. This course engages economists’ study of game theory as a tool for recognizing the rules of the game and honing in on determinant factors to train students in the art of strategic decision-making.

**Finance and Business Strategy**
The business strategy “shelf life” is decreasing as new technologies and externalities (e.g., data privacy) create a strong case for change. In this course, students will learn to merge the language of finance with a deep understanding of business strategy. Students explore concepts around the innovator’s dilemma and digital transformations for incumbent companies.

**Big Data and Machine Learning**
Companies are generating 10-1000 times more data every 12 months as the Internet of Things (IoT) explodes. Students will explore what elements surrounding data collection and decision making are crucial in the equation for machine learning potential, and appropriate machine learning techniques.

**Critical Challenge Project**
The Critical Challenge Project (CCP) is central to the Executive Master in Science and Technology Leadership. Under the direction of a faculty member, the student identifies and analyzes a critical challenge respective to their organization from multiple perspectives and develops a comprehensive plan for addressing it. The CCP draws upon the knowledge and skills gained from each EMSTL course, with particular emphasis on integrating technology, policy, and human factor aspects.

**International Experience**
Technology leaders must acquire an understanding of international business practices and global technologies. EMSTL addresses this need through an innovative and structured global immersion opportunity designed for working professionals. We partner with technology leaders (e.g., SAP, Samsung) to tackle their greatest technology challenge through a one-week project in their corporate headquarters.