



*Master of Science in*  
**Engineering  
Management**

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**Alumni Career Report**

**Tufts**  
UNIVERSITY

Gordon Institute

# Tech Savvy Leaders Are In Demand

*Rise above with Tufts Master of Science in Engineering Management*

As the modern world grows more interconnected, you need more than technical skills to be a successful leader influencing the future of technology-driven businesses. You also need what *Fortune* calls, “specialized skills that matter more than ever”:

- » Leadership and communication skills.
- » Creative problem solving.
- » Strategic thinking.

Ready to take the next step in your career? Put your best foot forward with the Tufts MS in Engineering Management. Our re-envisioned, transformative MSEM experience focuses on relevant content and practical skills you need to thrive in an increasingly complex and

rapidly changing world, including product development, data science, marketing, finance and strategy — so you stand out as a well-rounded, 360° leader.

We surveyed alumni from the last five years to find out how the MSEM program delivers professional and personal impact, and the data is impressive: 95% said they’d recommend the program to colleagues looking to take their careers to the next level.

Why? Career acceleration. Strong earnings growth. Enhanced career mobility. Altogether, the Tufts MSEM program develops a unique combination of business acumen and leadership skills specifically for technology professionals.

“It’s the trifecta of technical curriculum, business strategy and leadership. That combination pulls together your core passion for engineering with strategic vision and executive presence.”

— LISA WYMAN, MSEM '08

Senior Vice President, Technical Operations & Quality | Acceleron Pharma



95%

OF MSEM ALUMNI SAID THEY'D RECOMMEND THE PROGRAM TO COLLEAGUES LOOKING TO TAKE THEIR CAREERS TO THE NEXT LEVEL.

Learn more about the MSEM program »

\* Source: Data collected from 2014 - 2019 MSEM graduates

# Education That Pays Off As Soon As You Enter The Classroom

Whether you pursue your MSEM 100% online or through a hybrid experience, you don't need to wait until graduation to experience career advancement. From day one, you can take what you learn hands-on in class and apply those skills in your workplace. And management notices - many MSEM students receive promotions, raises, & increased responsibility before they even graduate.

**1.8 years**

after graduation - the projected time to recoup their investment\*

**59%**

promoted while enrolled in the program

**\$14,537**

the average increase in salary while enrolled in the program

**98%**

believe the MSEM was worth its cost in time & tuition

\* The average return on investment was calculated after accounting for tuition reimbursement and scholarship funding received.



“ Halfway through the program, I was promoted from an individual contributor to an engineering manager. A year after graduating, I made the leap into a program management role, where there's a lot of opportunity for growth. I'm now on the path that I've always envisioned for myself.

”

— **CHRIS RAFFERTY, MSEM '18**  
Program Manager | Raytheon

# New Skills. New Heights. New Career Paths.

Over half of MSEM students are promoted before they even graduate, and that success only continues to grow after graduation. Alumni from the last five years report significant enhancement of their key leadership and management competencies. As a result, graduates continue on the career fast track - earning promotions and rising to higher levels of leadership. Some seize opportunities in new industries and job functions, while others take the leap to start their own company. Whatever path you choose, as an MSEM alumnus you'll see a sustained return on your educational investment.

## ENHANCED SKILLSET

97%

increased their business and financial knowledge

96%

strengthened their leadership preparedness

## CAREER ADVANCEMENT

32%

changed industries

24%

worked at start-up or started own business



“Tufts gave me the confidence to take a seat at the table, and it’s really shaped me into the leader I want to be. I wanted to learn something different, to learn how to stand out. [The MSEM program] teaches you problem-solving skills that you can apply for the rest of your life.”

— MARTA ASACK, MSEM '10

*Vice President of Industrialization*  
| Schneider Electric

# MSEM Student Profile

Classes of Fall 2017 - Spring 2020

## Job Function

Engineering/R&D/Product Design & Development	56%
Operations/Manufacturing	11%
Quality Assurance/Regulatory	8%
Project/Program Management	7%
IT	6%
Product Management	2%
Consulting	2%
Marketing & Sales	1%
Other	8%

**30** average age

**32%** women

**11%** international students

## Company Size

1-200 employees	24%
200 - 1,000 employees	25%
1,001 - 5,000 employees	18%
5,001 - 10,000 employees	9%
10,000+ employees	25%

## Industry Breakout

Defense and Space	28%
Pharma & Life Science	21%
Medical Devices	10%
Electronics/Instrumentation/Robotics	9%
Computer & Communication Hardware/Software	8%
Non-Profit & Public Sector	5%
Manufacturing/Automation	5%
Civil/Environmental & Energy	3%
Chemicals & Materials	3%
Other	6%

## Educational Background

Mechanical	19%
Chemical & Biological	18%
Science	14%
Electrical	14%
Non-technical	11%
Computer Science & Engineering	7%
Other Engineering	7%
Civil & Environmental	4%
Industrial & Engineering Management	3%
IT/Media	3%





“ I learned how to be comfortable in uncomfortable situations. This skill was essential in my transition from a well-established multinational pharmaceutical company like Pfizer to a small biotech start-up with an ambiguously complex and dynamic environment. ”

— **GEORGE LEE, MSEM '14**  
*Senior Director, Development Program Leadership | Xilio Therapeutics*

“ I used to understand only one piece of the puzzle, but now I can see beyond the technical. The MSEM program really elevated my thinking, giving me executive presence and an understanding of the language of business. My return on investment has been 6x, and I'm ready to seize opportunities. ”

— **SYRA ARIF, MSEM '17**  
*Manager, Solution Consulting; Integrated Risk Management | ServiceNow*



# Career Success. Life Long Connections.

The Tufts MS in Engineering Management degree positions you for long-term career success and provides you with access to both a rapidly growing network of technology professionals and the Tufts University global alumni community. And, as our network continues to grow so does its power. Just take a look at where some of our alumni are now.

## ENGINEERING/R&D/PRODUCT DESIGN & DEVELOPMENT

Amazon Robotics, Senior Manager, Systems Architecture  
Axcelis Technologies, Inc., Senior Director of Engineering  
BAE Systems, Director of Technology Solutions Software Engineering  
DellEMC, Technical Director  
Draper, Director of Corporate R&D  
Draper, Director, Space Systems  
Entegris Inc., Senior Director of Engineering  
Facebook, Engineering Manager  
General Motors, Engineering Manager of Connected and Autonomous Vehicle Systems  
Google, Engineering Director  
Hewlett Packard, Director, R&D, Head of Development, Chief Technologist  
HighRes Biosolutions, Vice President of Engineering  
Medrobotics, Director of R&D  
Merck, Head of Advanced Product Development  
Micron Products, Inc., Vice President, Quality and Regulatory  
Raytheon, Chief Engineer Staff, MENA & Asia Pacific Programs  
ZOLL Medical Corporation, Senior Director of R&D

## OPERATIONS/MANUFACTURING

Accelaron Pharma, Vice President of Technical Operations & Quality  
Bristol Myers Squibb, Global Quality & Compliance Leader  
Cabot Corporation, Global Quality Director  
Care.com, Senior Director Production Operations Engineering  
Corning, Director of Corporate Quality  
ImmunoGen, Director, External Manufacturing  
Pfizer, Senior Director of Bioprocess R&D Development  
Sanofi, Head of Supply Chain  
Sarepta Therapeutics, Senior Manager, Manufacturing Sciences and Technology  
Scrum Inc., Chief Operating Officer  
Takeda, Head of Business Excellence  
Takeda, Senior Vice President Strategy and Business Excellence  
Vertex Pharmaceuticals, Senior Director of Operations

## GENERAL MANAGEMENT

Analog Devices, General Manager  
LG Electronics, Inc., General Manager  
Moore Nanotechnology Systems, LLC, President  
Orange Photonics, Inc., Founder & CTO  
Owl Labs, Co-Founder  
Scrum Inc., Chief Operating Officer  
The Knot Worldwide, Chief Executive Officer

## PROGRAM MANAGEMENT

Google, Technical Program Manager  
IDEMIA, General Manager, Southeast US Region  
iRobot, Program Manager  
MITRE, Portfolio Manager  
Mustang Bio, Director, Program Management - Gene Therapy  
Raytheon, Senior Program Manager  
Schneider Electric, Director of Program Management  
Sensata Technologies, Global Director of Program Management & Business Operations  
Shire, Senior Program Manager, Strategic Projects

## PRODUCT MANAGEMENT/STRATEGY

Amazon, Senior Manager of Product Management  
CallMiner, Director of Product Strategy  
CivaTech Oncology, Inc., Director of Product Management  
Dell EMC, Senior Product Manager  
Dentsply Sirona, Global Product Manager  
GE Aviation, Director, T-X Trainer Product Management  
MathWorks, Senior Product Manager  
Philips, Senior Director, Global Product Management & Marketing  
Schneider Electric, Senior Director of Product Management  
Sonos, Inc., Principal Product Manager  
Sophos, Sr. Product Manager

## TECH MARKETING/SALES/BUSINESS DEVELOPMENT

GE Aviation, Senior Sales Director  
Liberty Mutual Insurance, Vice President, Global Retail Markets Innovation  
Microsoft Corporation, Senior Marketing Manager, US OEM Partner/Reseller Marketing  
Millipore Sigma, Sr. Director of Marketing Excellence & Operations  
SAP North America, Director of Sales Operations  
Sensata Technologies, Director of Global Marketing  
Shawmut Construction, Director, Construction Services  
Shire, Head of Marketing  
Unum Therapeutics, Vice President, Corporate Development  
Vertex Pharmaceuticals, Senior Director, BD - Transactions and Alliance Management

## IT

Fidelity Investments, Senior Technology Manager, Enterprise Infrastructure  
Franklin W. Olin College of Engineering, Chief Information Officer  
MITRE, Principal Cybersecurity Engineer  
Northeastern University, Director of IT  
Nuance Communications, Inc., Infrastructure Services Manager  
PTC, Director, Enterprise Applications Security Architecture  
Raytheon, Principal, IT Business Partner Lead  
ServiceNow, Manager, Solution Consulting, IT Transformation, Risk and Security

## CONSULTING

Deloitte, Senior Consultant  
EBI Consulting, Director of Environmental Health & Safety  
Gartner, Associate Director of Consulting  
Geosyntec Consultants, Senior Consultant  
McKinsey and Co., Senior Analyst, Pharmaceutical & Medical Products  
Navigant Consulting, Managing Consultant  
ValSource, LLC, Senior Director of Consulting Services

# RSVP for an Admissions Event

Take the first step towards becoming a leader in the new world of work by applying to the MSEM program.

Attend an admissions event and learn first-hand from alumni on how their MSEM degree made an impact on their careers.



Attend a Virtual  
Admissions Event

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[gordon.tufts.edu](http://gordon.tufts.edu)