Dual MBA/Executive MS in Engineering and Applied Science
An **MBAxMS** in Engineering and Applied Science:

- Growing need for business leaders with technical skills
- 2 degrees from 2 top-ranked schools in < 2 years
- Amazing faculty + unique curriculum design
- Dynamic and diverse community of students
- Incredible resources for academic and career support
- Unmatched location in New York City
World-class knowledge
"We recognize how important it is to provide students with broad exposures to emerging technology breakthroughs."

"This program allows students to move seamlessly from the classroom, to product development, to large-scale innovation."
Program Directors

Daniel Guetta
Program Director
Associate Professor of Professional Practice
Columbia Business School

Harry West
Program Director
Professor of Professional Practice in Industrial Engineering and Operations Research
Fu Foundation School of Engineering and Applied Science

Daniel Guetta
Program Director
Associate Professor of Professional Practice
Columbia Business School
Garud Iyengar  
Prof. in Industrial Engineering and Operations Research  
Teaches “OPT Models & Methods for FE”

Lydia Chilton  
Assistant Professor of Computer Science  
Teaches “Design of UI/UX for connected systems”

Sam Sia  
Professor of Biomedical Engineering  
Teaches “Frontiers of Tough Tech”

Dan Wang  
Associate Prof. of Business  
Teaches “Technology Strategy”

Sheena S. Iyengar  
S.T. Lee Prof. of Business  
Teaches “Think Bigger”

Jorge A. Guzman  
Associate Prof. of Business  
Teaches “Entrepreneurial Strategy”

Program Faculty

75+ Faculty Members

14 Areas of Study
Fall Semester

Human-Centered Design & Innovation •
Design of UI/UX for Connected Systems •
Frontiers of Tough Tech •
Fundamental Design Tools •
Foundations of Entrepreneurship *
Statistics + Business Analytics *

Spring Semester

Lead: People, Teams, Organizations *
Strategy Formulation *
Managerial Economics *
Global Economic Environment *
Marketing *
Financial Accounting *
Foundations of Valuation *
Corporate Finance *
Operations Management •
Analytics in Python •

First Year Curriculum

*CBS  • SEAS
Entrepreneurship Concentration
Work on your startup with funding provided by the program

Summer Term

Enterprise Concentration
Take a paid internship with a startup or an established technology company
Entrepreneurship Concentration
Classes include: Entrepreneurial Strategy; Entrepreneurial Finance; Launch Your Startup; Entrepreneurial Law for Startups; Entrepreneurship Through Acquisition…

Enterprise Concentration
Classes include: Product Management; Technology Strategy; Operations Strategy; Economics of Organizational Strategy; Financial Planning and Analysis; Managerial Decision-Making, ...
Complete an Engineering Concentration

Medical Device Design
AI and Machine Learning
Software Systems
Robotics and Smart Machines
Climate, Energy, and Sustainability
Supply Chain, Retail and Service Systems
Advanced Materials and Nanotechnology
Unmatched opportunities
Opportunities in
New York City

Gain access to one of the most vibrant, expansive, and innovative business and entrepreneurial ecosystems in the world.
Distinguished Speakers and Conferences

Robert Smith
CEO of Vista Equity
MBA ’94

Arianna Huffington
Co-founder of The Huffington Post, the founder and CEO of Thrive Global

Rocco Comisso
Chairman and CEO of Mediacom
BS ’71, MBA ’75

Sunita Williams
American Astronaut and United States Navy Officer

Asahi Pompey
Partner, Global Head of Corporate Engagement, Goldman Sachs
World-Class Resources

- Graduate Career Placement Team
- One-on-One Career Coaching
- Global Alumni Connections
- Innovative Professional Development Opportunities
- Student-Employer Engagements
- Professional Development and Leadership Fellows Program
- Career Management Center
- CMC Coaches / CMC Fellows
- Executives in Residence
- Columbia Build Lab
- Columbia Startup Lab
- Alumni Edge Program
- Columbia Alumni Virtual Accelerator
Successful Entrepreneurs
Recruitment by Top Employers

Amazon
Spotify
eBay
Adobe
Meta
Microsoft
Tencent
IBM
Google
LinkedIn
Salesforce
Wayfair
Hulu
Worldwide alumni network

50,000+ Columbia Business School Alumni
45,000+ Columbia Engineering Alumni
95,000+ Alumni Worldwide
Notable Alumni

Ursula Burns
MS ’81
Former CEO of Xerox

Bob Bakish
BS ’85, MBA ’89
President and CEO of Paramount Global

Cyrus Massoumi
MBA ’03
Founder of Zocdoc

Jon Stein
MBA ’09
Founder and CEO of Betterment

Alicia Abella
PhD, Computer Science ’95
Managing Director, Google Cloud

Ethan Brown
MBA ’08
Founder, president and CEO of Beyond Meat
Next steps
What We Look For

Academic History
- Undergraduate STEM degree
- Work experience (min. 2 yrs.)
- GMAT / GRE scores

Alignment with Your Professional Goals
- Interested in creating or joining a startup company
- Seeking an enhanced role at an established technology firm
- Expanding opportunities as a technical product manager

Personal Characteristics
- Recommendations
- Essay
- Interview
Application Requirements

- Online Application
- Résumé
- 1 Essay
- Post MBAxMS Goal
- 2 Letters of Recommendation
- Transcripts
- GRE or GMAT Scores
- Interviews by Invitation
- Application Fee
# Application Deadlines

<table>
<thead>
<tr>
<th>Round</th>
<th>Application Due</th>
<th>Decision</th>
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<tbody>
<tr>
<td>Round 1</td>
<td>October 4, 2023*</td>
<td>Final decision expected by mid-December 2023</td>
</tr>
<tr>
<td>Round 2</td>
<td>January 5, 2024*</td>
<td>Final decision expected by late March 2024</td>
</tr>
<tr>
<td>Round 3</td>
<td>April 3, 2024*</td>
<td>Final decision expected by early May 2024</td>
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*Applications are due by 11:59pm EST on the deadline.

For more information about application round, please visit: https://academics.gsb.columbia.edu/mbaxms#Admissions

Begin August 2024 and complete the program in May 2026.
Merit-Based Fellowship

- Starting from $20K and up per year; renewable and can be combined with need-based scholarship with restrictions
- Not awarded with the admissions decisions
- Apply for admission by January 5, 2024 (Round 2); No separate application needed

Need-Based Scholarship

- Multi-step application process after admission
- Range from $10K–$30K per year; renewable

U.S. / International Student Loans

- Loans available up to the full financial aid budget less other aid
- No-cosigner international loan options available for up to 80% of the cost of attendance
Thank you
The master of science program is strongly oriented to collaborative research and a well-balanced program of study.

Your work will result in a broad grounding in your selected concentration, along with in-depth knowledge in your specific area of specialization.
Students who choose the entrepreneurship concentration will be given a summer stipend to assist them while they pursue their venture idea.

Students who pursue the enterprise concentration will obtain an internship with support from both the Engineering and Business School's Career Offices.

**APPENDIX**

**Business Concentration Courses**

**Entrepreneurship Concentration**

*9 Credits*

- Entrepreneurial Strategy
- Entrepreneurial Selling
- Entrepreneurial Law for Start-Ups
- Entrepreneurial Greenhouse
- Entrepreneurial Finance
- Foundations of Venture Capital
- Launch Your Startup
- Entrepreneurship Through Acquisition

**Analytics Requirement**

*3 Credits*

- Analytics in Action
- The Analytics Advantage
- Business Analytics II
- Marketing Analytics
- Demand and Supply Analytics
- People Analytics and Strategy
- Market Intelligence: Art & the Science
- Quantitative Pricing & Revenue Analytics
- Data Science for Marketing Managers
- Modern Econometrics for Business

**Enterprise Concentration**

*9 Credits*

- Product Management
- Technology Strategy
- Operations Strategy
- Economics of Strategic Behavior
- Economics of Organizational Strategy
- Financial Planning and Analysis
- Top Management Process
- Managerial Decision-making
- Power and Influence

**Innovation Requirement**

*3 Credits*

- Foundations of Innovation
- Think Bigger
- Napoleon's Glance
- The Corporate Innovator
- Innovate Using Design Thinking
Elective Courses

- Advanced Kinematics, Dynamics, and Control in Robotics
- Alternative Energy Resources
- Artificial Intelligence
- Bioinstrumentation
- Ceramic Nanomaterials
- Ceramics & Composites
- Computational Aspects of Robotics
- Computer Vision
- Database System Implementation
- Drug and Gene Delivery
- Dynamic Pricing and Revenue Management
- Electrochemical Energy Storage Systems
- Electrochemical Materials and Devices
- Electronic and Magnetic Properties of Solids
- Energy: Sources and Conversation
- Fundamentals of Large-scale Distributed Systems
- Fundamentals of Photonics
- Healthcare Operations Management
- Infrastructure Materials
- Introduction to Atmospheric Science
- Introduction to Databases
- Lab to Market
- Machine Learning for Functional Genomics
- Machine Learning Theory
- Materials Science Laboratory
- Mechanical Properties of Structural Materials
- Micromechanics of Composite Materials
- Nanotechnology
- Natural Language Programming
- OR in Public Policy
- Principles of Device Microfabrication
- Robot Learning
- Robotics
- Service Engineering
- Solar Fuels
- Solar Thermal Engineering
- Supply Chain Analytics
- Synthesis & Processing of Materials
- Thin Films and Layers
- Transportation Analytics and Logistics
Elective Courses

• Analytics in Action
• Applying Healthcare IT and Digital Health
• Business Analytics II
• Customer Management Concepts and Models
• Data Science for Marketing Managers
• Demand and Supply Analytics
• Digital Marketing
• Economics of Strategic Behavior
• Entrepreneurial Greenhouse
• Entrepreneurial Law for Start-Ups
• Entrepreneurial Strategy
• Executive Ethics
• Financial Planning and Analysis
• Foundations of Innovation
• Foundations of Venture Capital
• Innovate Using Design Thinking
• Intro to Databases for Business Analytics
• Investing in Medical Technologies
• Launch Your Startup
• Lean Launchpad
• Managerial Decision-making
• Managerial Negotiations
• Market Intelligence: The Art and the Science
• Marketing Analytics
• Modern Econometrics for Business
• Natural Language Processing
• Operations Strategy
• People Analytics and Strategy
• Quantitative Finance: Models and Computation
• So, You Want to Be a Product Manager
• Strategic Consumer Insights
• Strategy and Competition in Pharma and Biotechnology
• Technology Strategy
• The Analytics Advantage
• The Business Of Climate Change: Investing and Managing In A Changing Environment
• The Leader’s Voice
• The New AI: The Business and Marketing of Aesthetics
• The U.S. Healthcare System: Structure and Strategies
• Think Bigger
• Virtual Reality and Artificial Intelligence
• Web App Programming in Python