



Columbia
Business
School



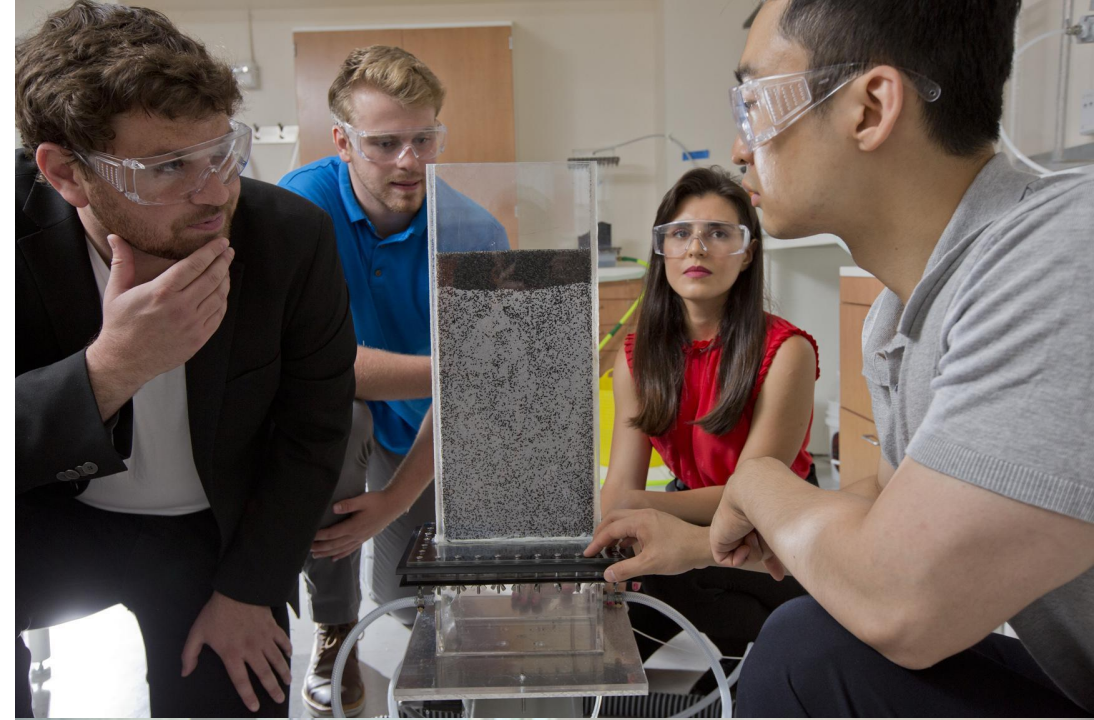
COLUMBIA
ENGINEERING

MBA^xMS

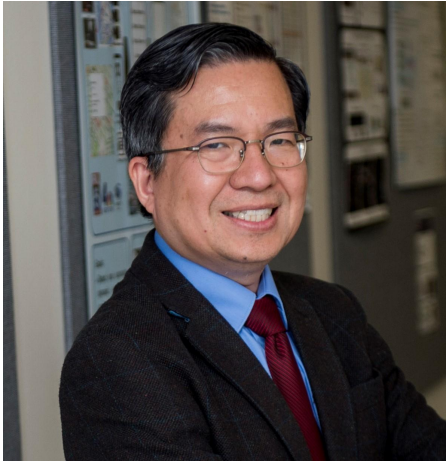
Dual MBA/Executive MS in
Engineering and Applied Science

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



Shih-Fu Chang

Dean

Fu Foundation School of Engineering and Applied Science

Morris A. and Alma Schapiro Professor

Professor of Electrical Engineering and Computer Science

“ We recognize how important it is to provide students with broad exposures to emerging technology breakthroughs.”



Costis Maglaras

Dean

Columbia Business School

David and Lyn Silfen Professor of Business

“ This program allows students to move seamlessly from the classroom, to product development, to large-scale innovation.”

Program Directors



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”



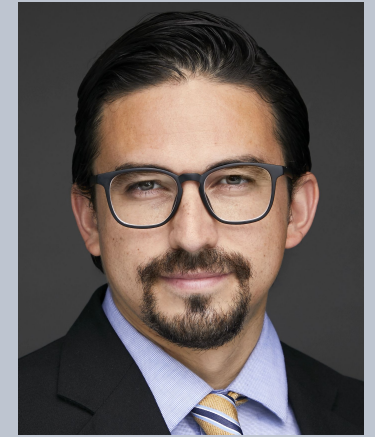
Dan Wang
Associate Prof. of Business

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 •

*CBS •SEAS



First Year Curriculum



Entrepreneurship Concentration

Work on your startup with funding provided by the program

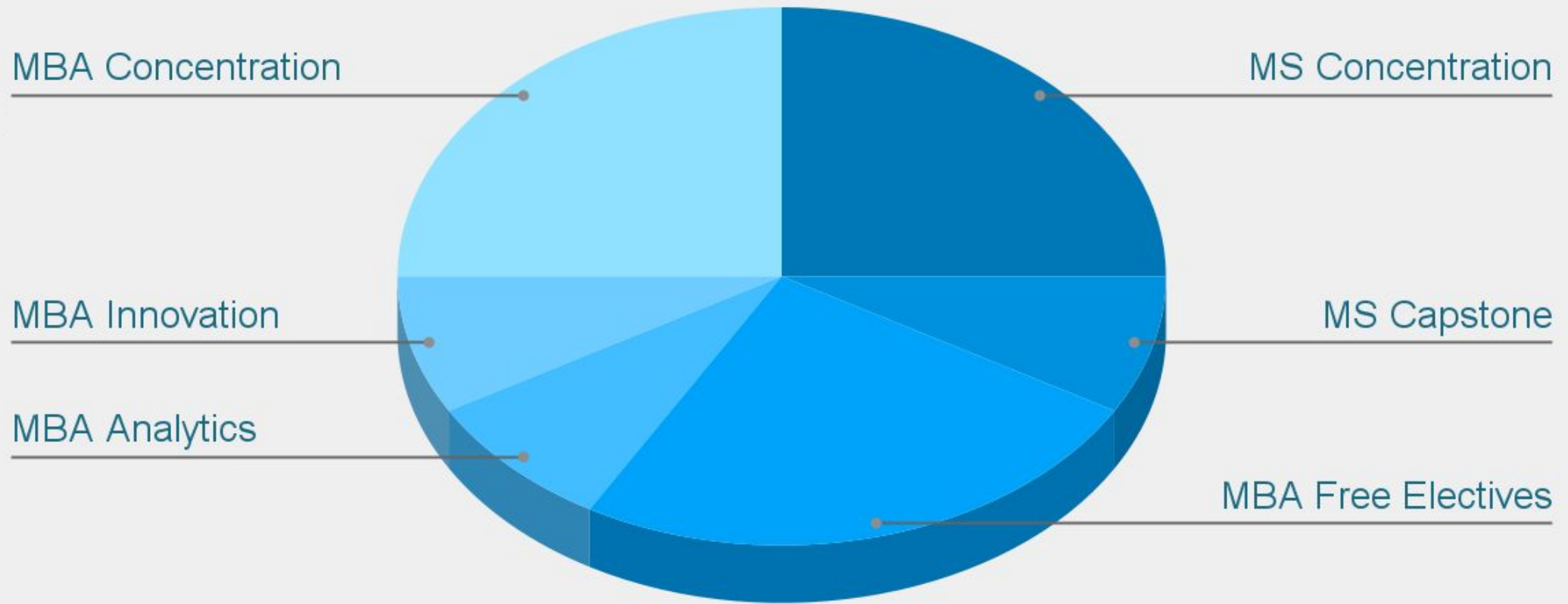
Summer Term



Enterprise Concentration

Take a paid internship with a startup or an established technology company

Second Year Curriculum





Entrepreneurship Concentration

Classes include: Entrepreneurial Strategy; Entrepreneurial Finance; Launch Your Startup; Entrepreneurial Law for Startups; Entrepreneurship Through Acquisition...

Fulfill a Business Concentration



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



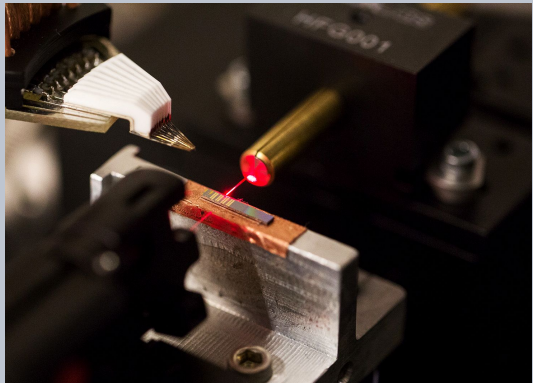
Robotics and Smart Machines



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



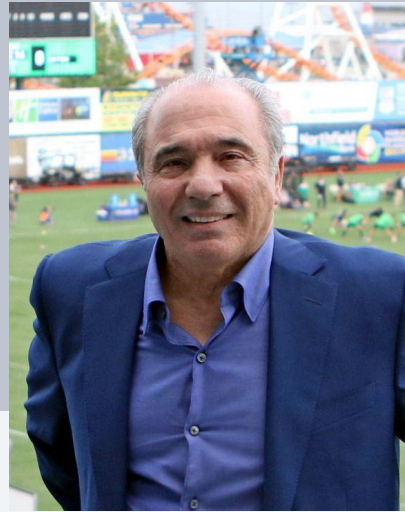
Distinguished Speakers and Conferences



Robert Smith
CEO of Vista Equity
MBA '94



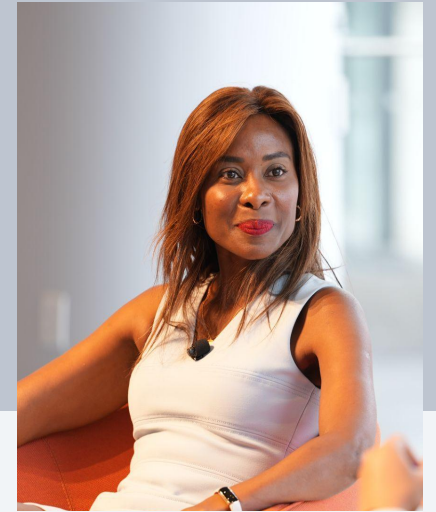
Arianna Huffington
Co-founder of
The Huffington Post,
the founder and CEO of
Thrive Global



Rocco Commisso
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

 **MEDIDATA**

 **SHOPKEEP**

flexport.

 **Stratyfy**

 **workrise™**

COMPASS

Recruitment by Top Employers



Worldwide alumni network

50,000+

Columbia Business School Alumni

45,000+

Columbia Engineering Alumni

95,000+

Alumni Worldwide



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



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

Notable Alumni



Jon Stein
MBA '09
Founder and CEO of Betterment



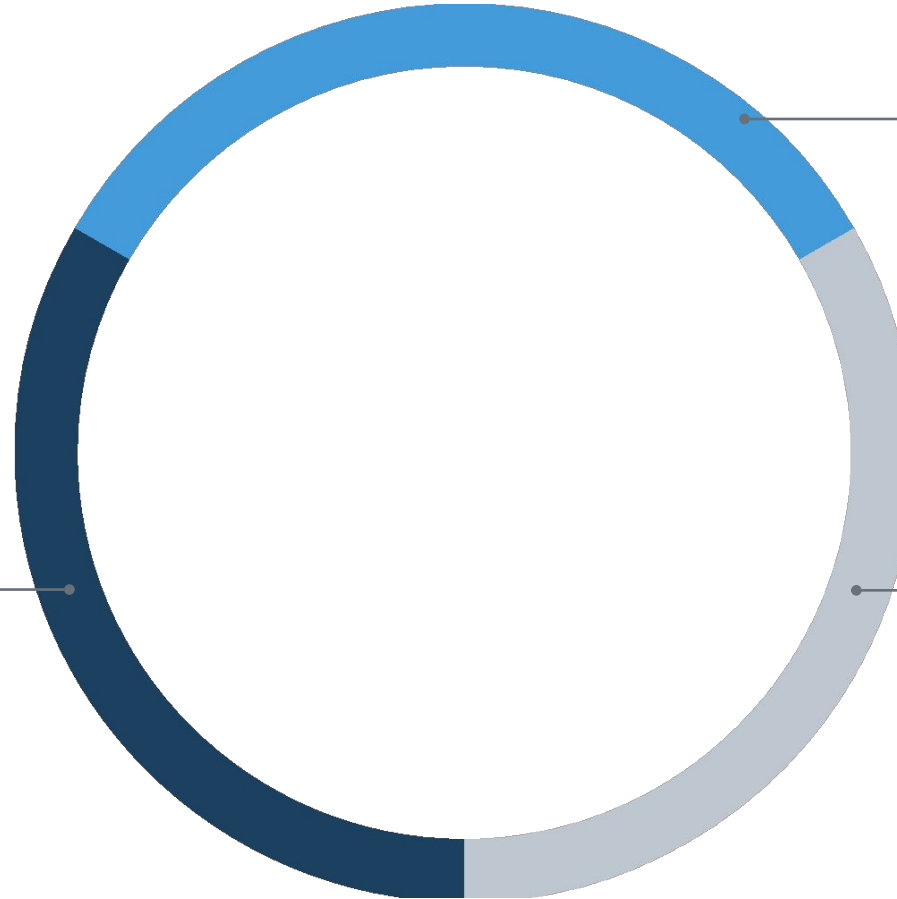
Ethan Brown
MBA '08
Founder, president and
CEO of Beyond Meat

Next steps

What We Look For

Personal Characteristics

- Recommendations
- Essay
- Interview



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

Application Requirements

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

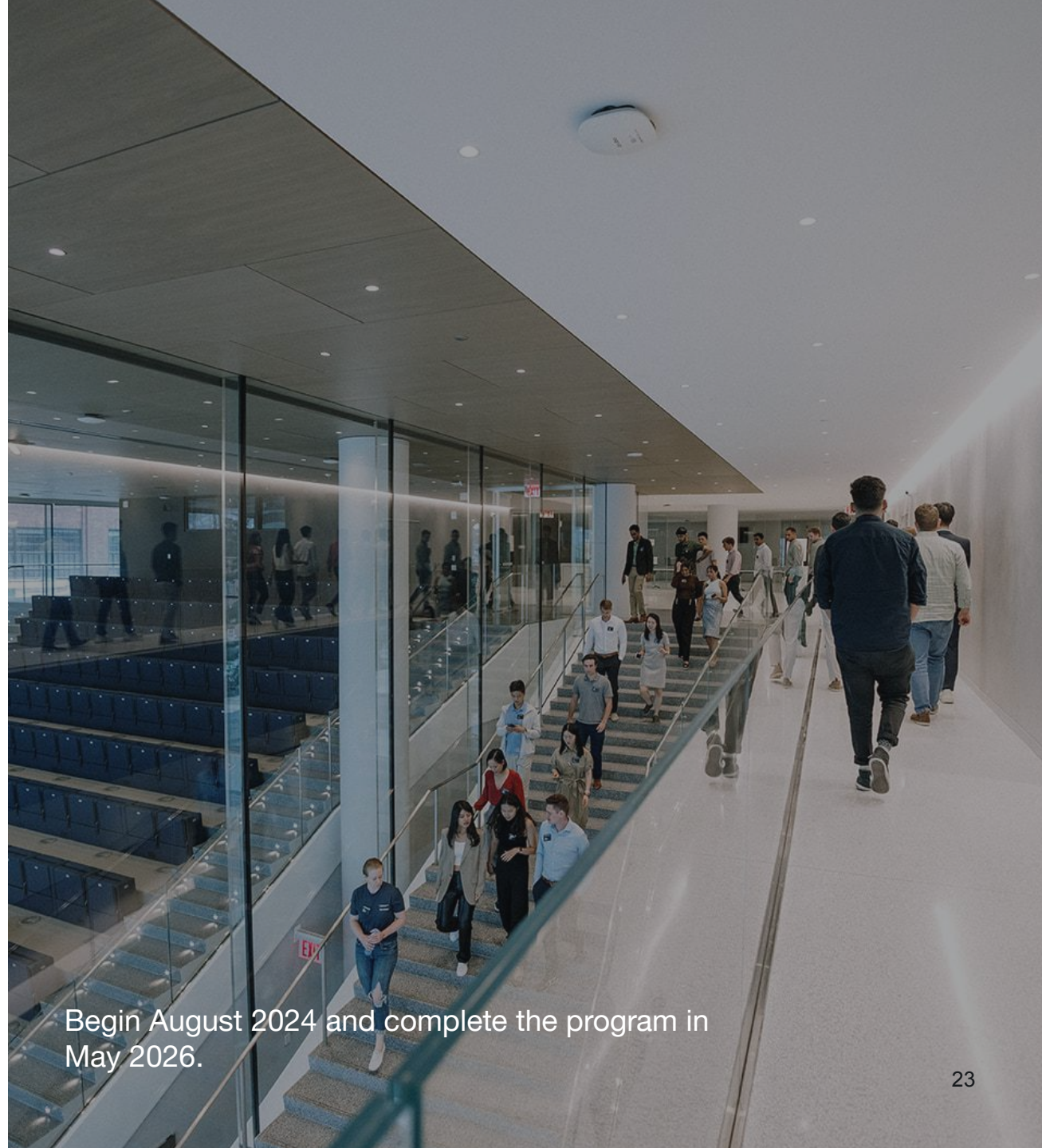


Application Deadlines

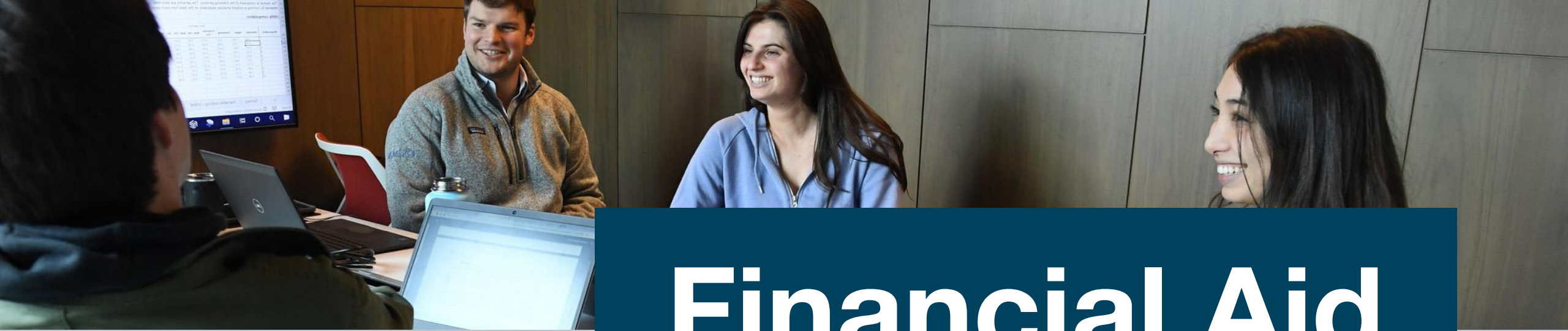
	Application Due	Decision
Round 1	October 4, 2023*	Final decision expected by mid-December 2023
Round 2	January 5, 2024*	Final decision expected by late March 2024
Round 3	April 3, 2024*	Final decision expected by early May 2024

**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.



Financial Aid

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

Q&A



Contact Us

apply@gsb.columbia.edu

212-854-1961

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 @Columbia SEAS Grad Admissions Office





Thank you



**COLUMBIA
ENGINEERING**

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.

APPENDIX

Engineering Concentration Courses

Medical Device Design

9 Credits

- Biomedical Innovation I
- Lab to Market
- Bioinstrumentation
- Drug and Gene Delivery
- Biomems

Advanced Materials and Nanotechnology

9 Credits

- Nanotechnology
- Infrastructure Materials
- Microelectromechanical Systems
- Principles of Device Microfabrication
- Synthesis & Processing of Materials
- Ceramic Nanomaterials
- Electronic and Magnetic Properties of Solids
- Materials Science Laboratory
- Mechanical Properties of Structural Materials
- Ceramics & Composites
- Electrochemical Materials and Devices
- Thin Films and Layers
- Mechanics of Fracture and Fatigue
- Micromechanics of Composite Materials
- Fundamentals of photonics

AI and Machine Learning

9 Credits

- Machine Learning
- Natural Language Programming
- Machine Learning for Functional Genomics
- Artificial Intelligence
- Unsupervised Machine Learning
- Machine Learning Theory

Climate, Energy, and Sustainability

9 Credits

- Energy: Sources and Conversation
- Alternative Energy Resources
- Introduction to Atmospheric Science
- Electrochemical Energy Storage Systems
- Solar Fuels

Robotics and Smart Machines

9 Credits

- Robotics
- Computational Aspects of Robotics
- Robot Learning
- Robotics Studio
- Machine Learning
- Computer Vision
- Advanced Kinematics, Dynamics, and Control in Robotics

Software Systems

9 Credits

- Introduction to Databases
- Computer Networks
- Fundamentals of Large-scale Distributed Systems
- Computer Security 1
- Computer Security 2
- Database System Implementation

Supply Chain, Retail and Service Systems

9 Credits

- Supply Chain Analytics
- Transportation Analytics and Logistics
- Dynamic Pricing and Revenue Management
- Service Engineering
- Healthcare Operations Management
- OR in Public Policy

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

Columbia Engineering 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

Columbia Business School

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