

# School of Engineering & Applied Science, Master's Degree Candidates

## 2020 Career Plans Survey Report

### Methodology

Career Services at the University of Pennsylvania annually surveys graduating students to provide a snapshot of their post-graduation plans.

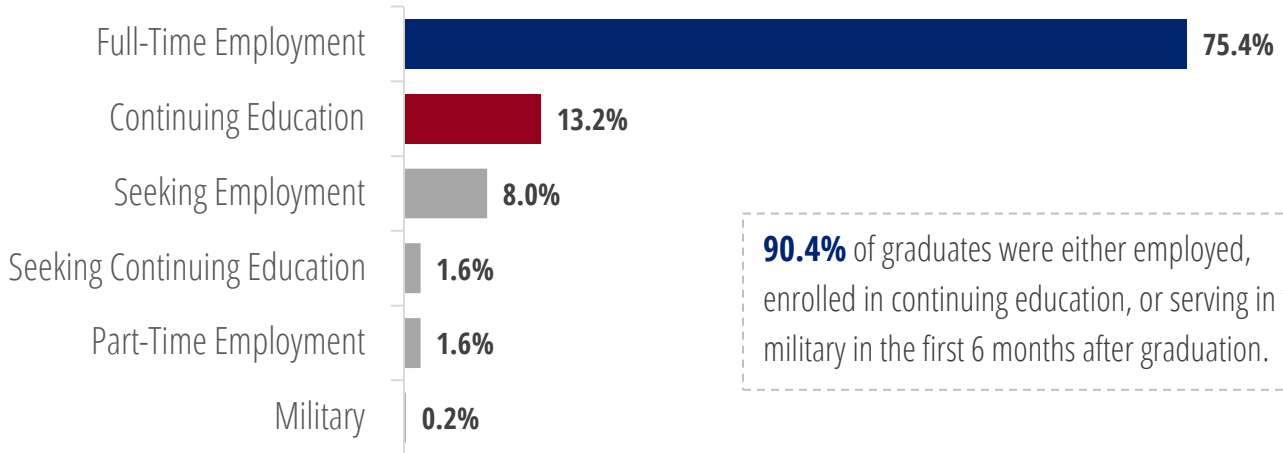
This report looks at 682 graduates from the schools listed above who received their degrees between August 2019–May 2020. Students were surveyed up to six months from their graduation date, with a 28% response rate. Additional information was then collected via LinkedIn and other sources, bringing the total **knowledge rate** up to **73%**, a total of 500 known graduate outcomes.

### Sections

1. **Post-Graduation Outcomes**
2. **Full-Time Employment**
  - a. Job Offers & Hiring Timeline
  - b. Industries & Job Functions
  - c. Geography & International Students
  - d. Salaries by Industry & Job Function
3. **Positions by Program**

# Post-Graduation Plans

500 responses

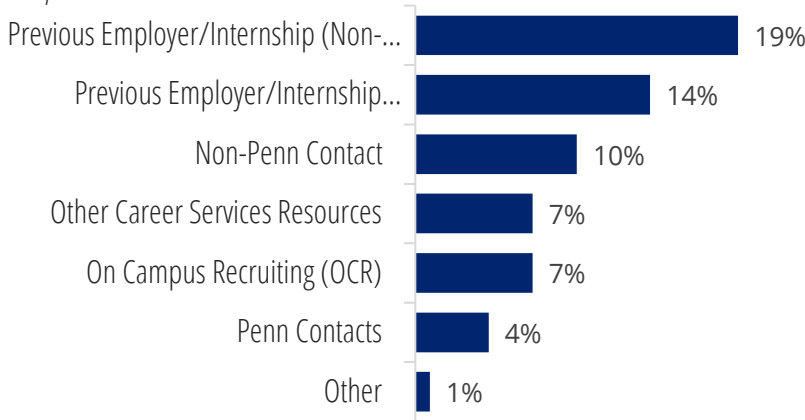


90.4% of graduates were either employed, enrolled in continuing education, or serving in the military in the first 6 months after graduation.

# Full-Time Employment

## Job Offer Source

114 responses

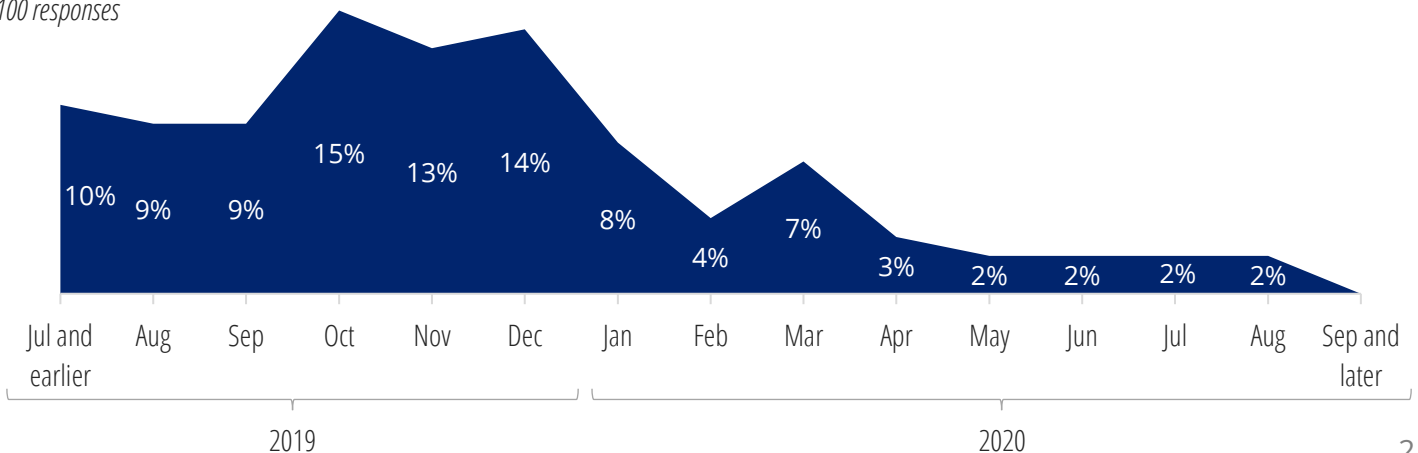


## Top Hiring Employers

- Amazon (40)
- Facebook (22)
- Google (15)
- Microsoft (13)
- Oracle (8)
- Apple (7)
- McKinsey & Company (6)
- Qualcomm (5)
- Boeing Company (4)
- Accenture (4)
- Huawei Technologies, Inc. (4)
- Uber (4)

## Date of Job Offer

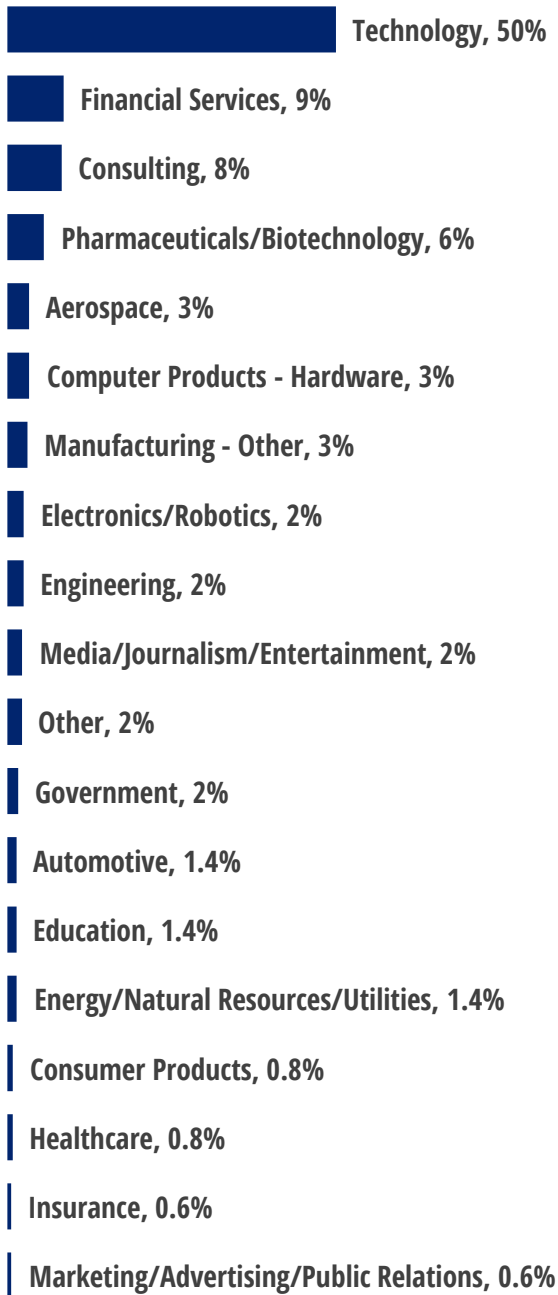
100 responses



# Full-Time Employment

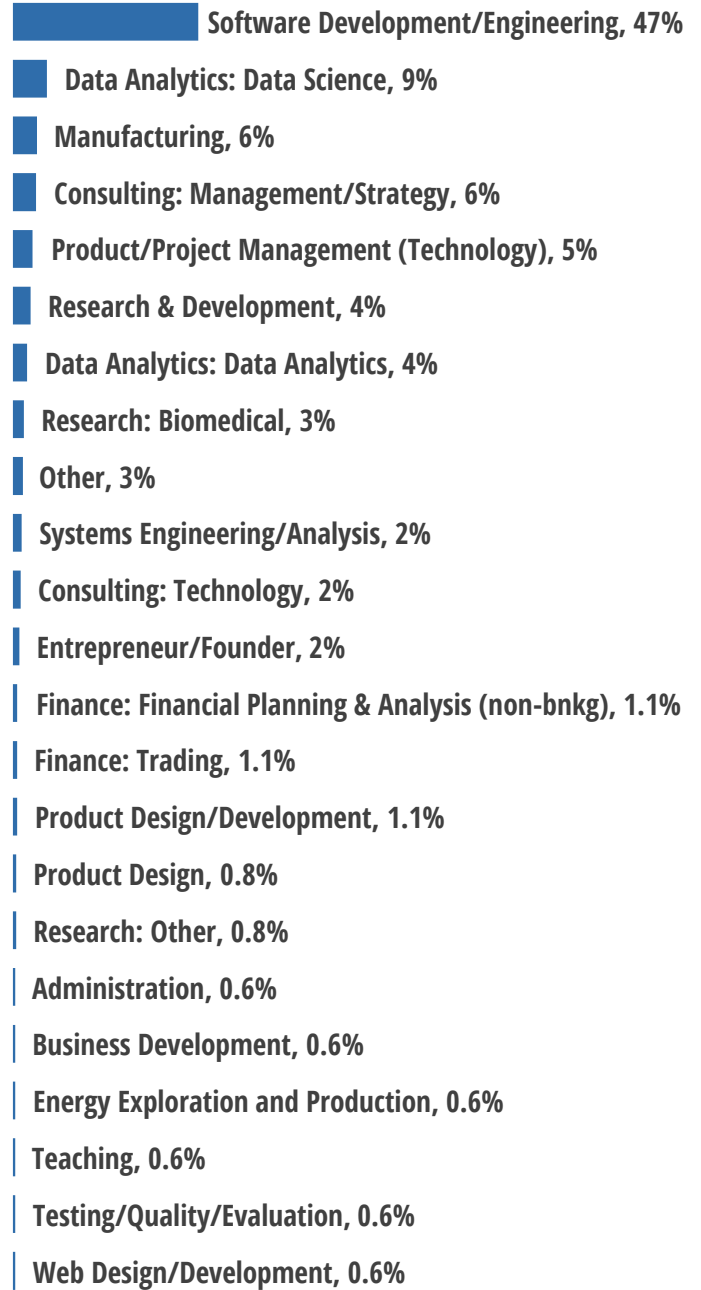
## Employer by Industry

362 responses



## Job Function

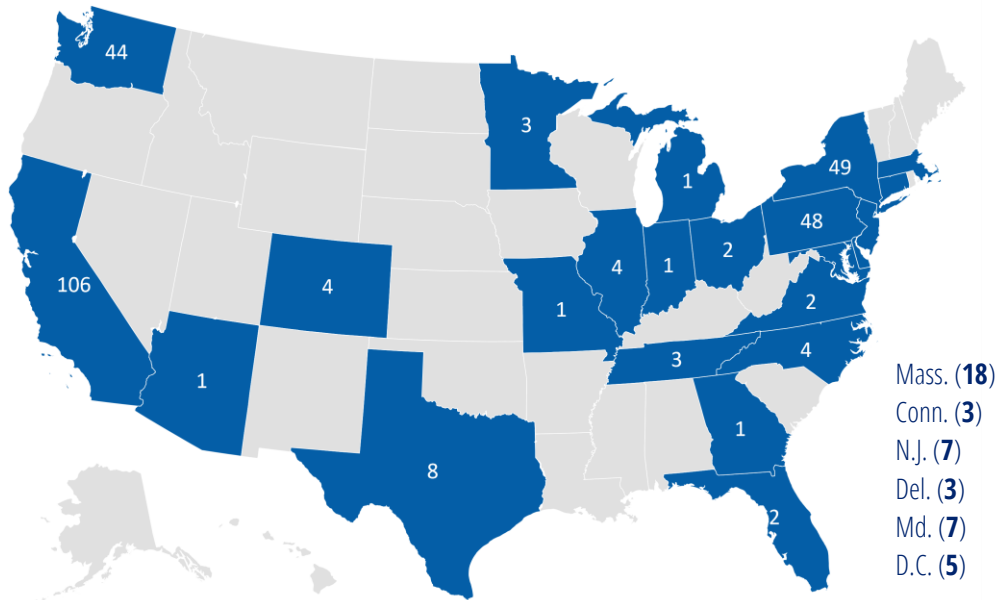
360 responses



# Full-Time Employment

## Employment by State

327 responses



### Internationally

26 students in 6 countries

7% of those who reported their location

- Canada
- China (19)
- Hong Kong
- Japan (2)
- Taiwan
- United Kingdom (2)

- Mass. (18)
- Conn. (3)
- N.J. (7)
- Del. (3)
- Md. (7)
- D.C. (5)

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## International Students

Of the 49 survey respondents who identified as foreign nationals, 42 reported they were employed full-time (86%) and 36 reported they were employed full-time in the U.S. (73%).

### U.S. Employers of Foreign Nationals

Amazon (5)	Bank of America	McKinsey & Company	Snap, Inc.
Amazon Robotics	Cerner Corporation	Microsoft (5)	Uber
American Express	Citadel Securities	Oracle (2)	Waymo
AQR Capital Management	DPE Engineering	Platelet BioGenesis	
Axiom Healthcare Strategies	Facebook (2)	Punchh, Inc.	
Bain & Company	Google	Robinhood	
	IBM	Scale Ai	
	IQ Motion Control	Shopkick	

# Full-Time Employment

	Respondents	Median	Range	
Overall Salaries	124	\$106,500	\$24,903	\$157,000
Signing Bonuses	87	\$20,000	\$2,000	\$140,000

## Salaries by Industry

	Respondents	Median	Range	
Aerospace	6	\$88,700	\$75,000	\$110,000
Computer Products - Hardware	4	\$75,500	\$36,000	\$103,500
Consulting	11	\$90,000	\$30,000	\$120,000
Healthcare/Life Sciences	4	\$72,500	\$30,000	\$80,000
Management Consulting	6	\$90,000	\$79,500	\$90,000
Other	1	-	-	-
Consumer Products	1	-	-	-
Education	1	-	-	-
Higher Education - Non-Research	0	-	-	-
Higher Education - Research Lab	1	-	-	-
Electronics/Robotics	4	\$82,500	\$52,000	\$85,000
Engineering	6	\$85,500	\$30,000	\$102,000
Financial Services	10	\$90,000	\$40,000	\$150,000
Diversified Financial Services (incl. commercial/retail banking)	3	\$88,000	\$40,000	\$140,000
Hedge Fund	3	\$125,000	\$80,000	\$150,000
Investment Banking/Brokerage	2	-	-	-
Investment Management/Counsel	2	-	-	-
Government	5	\$85,000	\$75,000	\$110,000
Federal Government	4	\$80,000	\$75,000	\$88,000
Other	1	-	-	-
Hospital	1	-	-	-
Insurance	1	-	-	-
Manufacturing - Other	4	\$54,250	\$35,342	\$80,500
Media/Journalism/Entertainment	2	-	-	-
Other	1	-	-	-
Pharmaceuticals/Biotechnology	9	\$75,000	\$24,903	\$112,000
Technology	58	\$118,000	\$44,000	\$157,000

*\*Fewer than 3 reported salaries not published to maintain confidentiality.*

# Full-Time Employment

## Salaries by Job Function

	Respondents	Median	Range	
Administration	1	-	-	-
Business Development	1	-	-	-
Consulting	11	\$82,500	\$65,000	\$90,000
Management/Strategy	9	\$90,000	\$65,000	\$90,000
Technology	2	-	-	-
Data Analytics	10	\$101,000	\$30,000	\$129,000
Data Analytics	5	\$90,000	\$33,280	\$129,000
Data Science	5	\$116,000	\$30,000	\$120,000
Finance	4	\$107,500	\$80,000	\$150,000
Risk Management	1	-	-	-
Securities Research	1	-	-	-
Trading	2	-	-	-
Manufacturing	5	\$85,000	\$24,903	\$89,900
Product Design	3	\$81,000	\$75,000	\$112,000
Product/Project Management (Technology)	5	\$109,000	\$72,500	\$118,000
Research & Development	9	\$92,000	\$51,000	\$110,000
Research	5	\$88,000	\$61,480	\$110,000
Biomedical	3	\$62,000	\$61,480	\$110,000
Other	2	-	-	-
Software Development/Engineering	62	\$112,000	\$30,000	\$157,000
Systems Engineering/Analysis	4	\$85,250	\$75,000	\$102,000
Technology Analysis	1	-	-	-
Testing/Evaluation	1	-	-	-
Web Design/Development	2	-	-	-

*\*Fewer than 3 reported salaries not published to maintain confidentiality.*

# Positions by Program

Bioengineering

Biotechnology (MBiotech)

Chemical & Biomolecular Engineering

Computer & Information Science

Computer & Information Technology (MCIT)

Computer Graphics & Game Technology

Data Science

Electrical Engineering

Embedded Systems

Integrated Product Design

Integrated Product Design (MSE)

Materials Science & Engineering

Mechanical Engineering & Applied Mechanics

Nanotechnology

Robotics

Scientific Computing

Systems Engineering

# Positions by Program

Positions accepted by 2020 graduates are listed by program and where known include employer name and position title.

## BIOENGINEERING

### Full-Time Employment

- Accenture**, Consulting Analyst
- Alphatec Spine**, Systems Engineer
- American Express**, Decision Science, Credit and Fraud Risk Manager
- Archimedic**, Mechanical Engineer
- Avire**, Product Manager
- Boston Consulting Group**, Associate
- Brooks Running**, The Run Research Team Lab Intern
- Hava**, Biomechanical Engineer
- Roivant Sciences**, Corporate Development Analyst ○
- Simon-Kucher & Partners**, Consultant
- The Wistar Institute**, Research Assistant
- Varian Medical Systems**, Hardware Verification Engineer

\* *Dual Degree Recipient*  
 ○ *SEAS Bachelor's & Master's Degree*  
 + *Continuing Previous Employment*

## BIOTECHNOLOGY (MBIOTECH)

### Full-Time Employment

- 1Globe Health Institute**, Clinical R&D Center Data Manager
- Appian Corp.**, Consultant
- Axiom Healthcare Strategies**, Analyst (Management Consulting)
- Bank of America**, Quantitative Analyst (Finance)
- Capsyd**, Founder/CEO
- ClearView Healthcare Partners**, Analyst
- Deloitte**, Business Analyst
- DPE Engineering**, Data Analyst +
- Integral Molecular**, Business Development Associate
- Integral Molecular**, Research Associate I
- Janssen**, Senior Scientist +
- Kindeva Drug Delivery**, Strategy Extern
- Medical Diagnostic Laboratories, L.L.C.**, COVID-19 Testing Laboratory Technician
- Oncocentics, Inc.**, Associate Scientist +
- Platelet BioGenesis**, Research Associate II
- Qral Group**, Management Consultant
- Vertex Pharmaceuticals**, Pharmacology Sr. Research Associate



## CHEMICAL & BIOMOLECULAR ENGINEERING

### Full-Time Employment

**Accenture**, Consulting Analyst  
**Cigna**, Senior Software Engineer +  
**Enovix**, Process Engineer Intern  
**IQVIA**, Consultant  
**McKinsey & Company**, Business Analyst  
**Microsoft**, Thermal Engineer II  
**NAVAIR - Shaw Road, Patuxent River, Maryland**, Chemical Engineer  
**Rogers Corporation**, Process Engineer  
**Suncor**, Contact Engineer  
**Syncell**, Chemical Engineer

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## COMPUTER & INFORMATION SCIENCE

### Full-Time Employment

**Aarogya.life**, Co-Founder and CO-CTO o  
**Adobe**, Machine Learning Engineer  
**Amazon**, Software Engineer (3)  
**Amazon**, Software Development Engineer (5)  
**Amazon**, Software Development Engineer 2  
**Amazon**, Software Developer Engineer  
**Amazon Lab126**, Software Engineer  
**Amazon Robotics**, Software Development Engineer (2)  
**Amazon Robotics**, Software Development Engineer o  
**Amazon Web Services**, Software Developer 1  
**Amazon Web Services**, Software Engineer  
**Brex**, Software Engineer o  
**ByteDance Inc.**, iOS Engineer  
**Citadel**, Software Engineer  
**Clumio**, Software Engineer o  
**Domino Data Lab**, Software Engineer  
**eBay**, Software Developer  
**Facebook**, Software Engineer (8)  
**Facebook**, Software Developer o  
**Facebook**, Software Engineer o (8)  
**Facebook**, Full-Stack Software Engineer o  
**Facebook**, Software Engineer +o (8)  
**Facebook**, Data Scientist o  
**Flowcode**, Machine Learning Engineer  
**Goldman Sachs**, Financial Risk Analyst

- Google**, Software Engineer (10)
- Google**, Software Engineer + ○ (10)
- HealthVerity**, Software Engineer
- IBM**, Data Scientist
- Jane Street**, Software Developer ○
- Jane Street**, Software Engineer ○
- JPMorgan Chase & Co.**, Software Engineer
- Lutron Electronics Company, Inc.**, Senior Software Engineer
- Microsoft**, Software Engineer (3)
- Microsoft**, Software Engineer ○ (3)
- NewsCred**, Full Stack Software Engineer ○
- Novetta**, Data Scientist ○
- Nuro**, Software Engineer ○
- Palantir Technologies**, Forward Deployed Software Engineer ○
- Palantir Technologies**, Software Engineer ○
- PayPal**, Software Engineer 2
- Qualcomm**, Software Engineer
- ServiceNow**, Machine Learning Engineer
- Snap, Inc.**, Software Engineer
- TripActions**, Software Engineer
- Two Sigma**, Software Engineer ○
- Waymo**, Software Engineer, Behavior Prediction
- Zoox**, Software Engineer

\* *Dual Degree Recipient*  
 ○ *SEAS Bachelor's & Master's Degree*  
 + *Continuing Previous Employment*

## COMPUTER & INFORMATION TECHNOLOGY (MCIT)

### Full-Time Employment

- Allegis Group**, Software Engineer +
- Amazon**, Data Scientist
- Amazon**, Software Engineer (4)
- Amazon**, Software Developer + (2)
- Amazon**, Software Developer (2)
- Amazon**, Software Development Engineer + (3)
- Amazon**, Software Development Engineer (3)
- Amazon Robotics**, System Engineer
- American Express**, Decision Science, Credit and Fraud Risk Manager
- Angeles Investments**, Quantitative Investment Analyst
- ASM**, Software Engineer
- Bloomberg LP**, Software Engineer
- BNY Melton**, Associate Data Scientist
- Cerner Corporation**, Software Engineer

**Comcast**, Software Engineer  
**Electronic Arts**, Subscription Analytics and Insights  
**Facebook**, Software Engineer, Machine Learning  
**Goldman Sachs**, Analyst  
**Google**, Software Engineer (2)  
**HealthCrowd**, Software Engineer  
**Kirkland & Ellis**, Technology & Intellectual Property Transactions Associate  
**McKinsey & Company**, Business Analyst  
**Microsoft**, Software Engineer  
**NVIDIA**, Compiler Verification Engineer  
**Oracle**, Software Engineer (2)  
**Oracle**, Software Developer  
**PayPal**, Software Engineer 2  
**PEAK6 Investments**, Quantitative Trader, Quantitative Researcher +  
**Salesforce**, Product Manager  
**SAP**, Software Engineer  
**StreetLight Data**, Software Engineer  
**Takeda Pharmaceuticals**, Data Scientist  
**TikTok**, Software Engineer  
**T-Mobile**, Technical Product Manager  
**Twitch**, Data Analyst  
**Uber Technologies Inc.**, Software Engineer  
**University of Pennsylvania**, Administrative Assistant +

\* *Dual Degree Recipient*  
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 + *Continuing Previous Employment*

## COMPUTER GRAPHICS & GAME TECHNOLOGY

### Full-Time Employment

**Advanced Neural Instruments**, President  
**BCG**, Associate  
**Blizzard Entertainment**, Associate Software Engineer  
**Comcast**, Software Engineer  
**Facebook**, Software Engineer  
**Oxide Games**, Junior 3D Graphics Engineer  
**Pixar**, Rendering Pipeline Software Engineer  
**Pixar Animation Studios**, Software Engineering Resident  
**Visual Concepts**, Presentation Software Engineer  
**Walt Disney Animation Studios**, Associate Software Engineer  
**Zoox**, Software Engineer

## DATA SCIENCE

### Full-Time Employment

**Aeyesafe**, Data Scientist  
**Amazon**, Software Engineer  
**Amazon**, Software Development Engineer 1 ◦  
**Amazon Robotics**, Data Scientist  
**Amazon Web Services**, Software Engineer  
**American Express**, Manager (2)  
**American Express**, Data Science, Analytics Manager  
**AQR Capital Management**, Quantitative Research Analyst ◦  
**Asana**, Software Engineer  
**Aspire**, Founder  
**Atlassian**, Software Engineer  
**BCG GAMMA**, AI Software Engineer ◦  
**Children's Hospital of Philadelphia**, Research Data Analyst  
**Circular Hospitality**, Machine Learning Engineer  
**Citadel and Citadel Securities**, Securities Trader  
**Constellations Inc.**, Data Scientist  
**DuPont**, Data Scientist  
**EverQuote**, Quantitative Analyst  
**Facebook**, Data Scientist  
**Facebook**, Software Engineer ◦  
**Facebook**, Data Engineer (2)  
**Facebook/Instagram**, Data Scientist  
**Goldman Sachs**, Data Engineering Analyst  
**Google**, Software Engineer (2)  
**Google**, Associate Product Manager ◦  
**goPuff**, Data Analyst  
**IBM**, Data Scientist  
**MathWorks**, Engineer  
**McKinsey & Company**, Business Analyst  
**McKinsey & Company**, Digital Analyst (Data Engineering)  
**Microsoft**, Software Engineer (2)  
**Microsoft**, Software Engineer ◦ (2)  
**Oracle**, Software Engineer  
**Oracle**, Data Scientist  
**Recurrency**, Head of Artificial Intelligence  
**Robinhood**, Data Analyst +  
**RoundUp App / Flourish Change**, CEO  
**Stitch Fix**, Data Scientist

**Tidepool**, Data Science Apprenticeship Program

**Uber / Kleiner Perkins**, Associate Product Manager / KP Product Fellow ○

**VMware, Inc.**, Software Engineer

\* *Dual Degree Recipient*

○ *SEAS Bachelor's & Master's Degree*

+ *Continuing Previous Employment*

## ELECTRICAL ENGINEERING

### Full-Time Employment

**Amazon**, Software Development Engineer

**Apple**, Design Verification Engineer

**AQR Capital Management**, Quantitative Research Analyst

**Baidu, Inc.**, C++/CPP Engineer

**Boeing**, Electronic Flight Controls Engineer

**Cadence Design Systems**, Software Engineer II, Machine Learning

**China Merchants Bank**, Software Development Engineer

**Citadel Securities**, Options Trader

**DiDi**, Machine Learning Engineer

**Dolby Laboratories**, Engineer

**Google**, Software Engineer

**Huawei**, AI Engineer

**Huawei**

**Huawei Technologies, Inc.**, Electrical Engineering Technician

**Intel**, Software Engineer - Machine Learning

**Keysight Technologies**, Research and Development Engineer

**Lutron Electronics Company, Inc.**, Senior Project Electrical Engineer

**Midea**, Computer Vision Engineer

**NVIDIA**, Deep Learning Engineer

**Oculii Corp**, Embedded Software/Firmware Engineer

**Oracle**, Software Developer

**Oracle**, Software Engineer

**Percepta / University of Pennsylvania**, Computer Vision Researcher / Research Assistant

**Punchh, Inc.**, Machine Learning Engineer

**Qualcomm**, Software Engineer

**ST Microelectronics**, Applications Engineer II

**Sumitomo Mitsui Banking Corp.**, Software Development Associate

**Systems & Technology Research**, Engineer

**Tencent**, Backend Software Engineer

**The D. E. Shaw Group**, Investment Analyst

**ThoughtWorks**, Software Development Engineer

**University of Pennsylvania, Kod Lab**, Research Assistant

**WePay**, Software Engineer

**Young Alfred**, Software Engineer

## EMBEDDED SYSTEMS

### Full-Time Employment

- Amazon**, Software Development Engineer (2)
- Amazon**, Software Development Engineer II
- Apple**, Software Engineer
- Apple**, WiFi Software Engineer
- Cisco**, Software Engineer
- Facebook**, Embedded Software Engineer
- Frontiir**, Staff Software Engineer
- LinkedIn**, Software Engineer
- Microsoft**, Electrical Engineer ○
- Microsoft**, Software Engineer
- Petal Jewelry Inc.**, Software Engineer
- Qualcomm**, Embedded Software engineering
- Second Order Effects Inc**, Electrical Engineer

\* *Dual Degree Recipient*  
 ○ *SEAS Bachelor's & Master's Degree*  
 + *Continuing Previous Employment*

## INTEGRATED PRODUCT DESIGN

### Full-Time Employment

- Aither Health**, Product Designer
- Assembly**, Product Designer I
- Cabinet Health**, VP of Digital + Analytics
- Pawsitive**, Co-Founder
- PMG Digital Agency**, Product Manager
- Session**, Co-Founder and UX Designer

## INTEGRATED PRODUCT DESIGN (MSE)

### Full-Time Employment

- Apple**, iPhone Product Design Engineer
- Apple**, Product Design Engineer
- BankMobile**, Product Owner
- SpaceX**, Avionics Manufacturing Engineer ○
- Stealth Startup**, Senior Product Analyst

## MATERIALS SCIENCE & ENGINEERING

### Full-Time Employment

- Amazon**, Software Developer +
- Amazon Robotics**, System Engineer
- ASM**, Software Engineer
- BNY Melton**, Associate Data Scientist

**Boeing Company**, Materials Engineer  
**City Year**, Americorps Member ◦  
**Dyson**, Research Engineer  
**Halma plc**, Product Manager  
**Martinez and Turek, Inc.**, Manufacturing Project Manager  
**Northrop Grumman**, Microelectronics Engineer  
**Qorvo, Inc.**, Product Development Engineer

\* *Dual Degree Recipient*  
 ◦ *SEAS Bachelor's & Master's Degree*  
 + *Continuing Previous Employment*

## MECHANICAL ENGINEERING & APPLIED MECHANICS

### Full-Time Employment

**Accenture**, Strategy Analyst  
**Amazon**, Software Developer  
**American Express**, Manager  
**Boeing Company**, Structural Analysis Engineer +  
**Children's Hospital of Philadelphia**, Research Project Engineer  
**Collective Impact**, Analytics Associate ◦  
**DePuy Synthes Companies**, R&D Leadership Development Program Engineer  
**ExxonMobil**, Facilities Engineer  
**FieldEquip**, Software Engineer  
**Huron Consulting**, Consulting Analyst  
**Johnson & Johnson Family of Companies**, Mechanical Engineer  
**Kulicke & Soffa**, Advanced Engineer, AP Process  
**Lockheed Martin**, Engineering Leadership Development Program  
**McKinsey & Company**, Business Analyst  
**NEC Corporation of America**, Robotics Researcher  
**Oak Ridge National Laboratory (ORNL)**, Research Software Engineer  
**PCTEST Engineering Lab**, Associate Biomedical Engineer  
**PokeOno**, Director of Operations  
**Pollux Automation**, Automation Engineer  
**Simons Foundation**, Flatiron Research Fellow  
**Strategy&**, Associate  
**Tesla**, Manufacturing Engineer  
**United States Marine Corps**, Section Officer in Charge  
**University of New Haven**, Adjunct Professor  
**Ventec Life Systems**, Senior Mechanical Engineer, Product Design

## NANOTECHNOLOGY

### Full-Time Employment

**Lockheed Martin**, Associate Member Engineering Staff  
**McKinsey & Company**, Business Analyst ◦

**Oracle**, Software Developer  
**TikTok**, Software Engineer

\* *Dual Degree Recipient*  
 ○ *SEAS Bachelor's & Master's Degree*  
 + *Continuing Previous Employment*

## ROBOTICS

### Full-Time Employment

**Accenture**, Test Engineering Senior Analyst  
**Amazon**, Software Development Engineer  
**Amazon**, Software Engineer (2)  
**Amazon**, Software Engineer + (2)  
**Amazon Robotics**, Solutions Design Engineer  
**Apple**, PM Intern ○  
**Apple**, Recycling Innovation Engineer  
**Applied Materials**, Systems Engineer  
**Astranis**, Mechanical Engineer  
**Bain & Company**, Associate Consultant  
**BenevolentAI**, Software Engineer  
**Boeing**, Rotational Engineer  
**Capital One**, Product Manager  
**CCDC-Army Research Laboratory**, Robotics Engineer +  
**EverC**, Data Scientist  
**Exyn Technologies**, Mechatronics Engineer  
**Exyn Technologies**, Software Engineer  
**Facebook**, Hardware Engineer  
**Facebook**, Software Engineer (2)  
**Facebook**, Software Engineer ○ (2)  
**Huawei Technologies, Inc.**, Automation Controls Engineer  
**IQ Motion Control**, Head of Software  
**Lockhead Martin**, Senior Mechanical Engineer  
**Lyft**, Associate Product Manager ○  
**Microsoft**, Program Manager  
**Nikira Labs**, Robotics/Mechatronics Engineer  
**Nuro**, Infrastructure Engineer ○  
**Oat Foundry**, Computer Hardware Engineer  
**Oculus VR**, Product Design Engineer  
**Outrider**, Robotics Software Engineer  
**Plenty**, Mechanical Design Engineer  
**Predion.ai**, Data Scientist ○  
**Program Manager Intern** ○  
**Qualcomm**, Engineer  
**Qualcomm**, Research Engineer



**Scale Ai**, Solutions Engineer  
**Snap Inc.**, Software Engineer ◦  
**SpaceX**, Mechanical Engineer  
**Tesla**, Autopilot Engineer  
**Trefos** +  
**Uber**, Software Engineer  
**US Army Research Laboratory**, Civilian  
**Yelp**, Ad Quality Engineer  
**Zipline**, Software Engineer  
**Zoox**, Software Engineer

\* *Dual Degree Recipient*  
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 + *Continuing Previous Employment*

## SCIENTIFIC COMPUTING

### Full-Time Employment

**Dimensional Fund Advisors**, Research Analyst  
**Flexon Technologies Inc.**, Data Scientist  
**Microsoft**, Software Engineer

## SYSTEMS ENGINEERING

### Full-Time Employment

**Amazon**, Data Scientist  
**Amazon Web Services**, Full Stack Engineer  
**App Orchid Inc.**, Data Scientist  
**Bain & Company**, Associate Consultant ◦  
**Chronograph**, PE Data Operations Analyst  
**Citi**, Management Analyst  
**DaVita**, Redwoods Analyst  
**GlaxoSmithKline**, Technology Associate ◦  
**i2c Inc.**, Data Analyst ◦  
**Jane Street**, Trading Desk Operations Specialist  
**Lockheed Martin**, Engineer +  
**Loyalty at JustData.com**, Executive Vice President  
**Microsoft**, Program Manager ◦ (3)  
**New Hope Liuhe**, Project Assistant  
**Odessa**, Senior Business Analyst +  
**Red Bull**, On Premise Analyst  
**REEF**, Data Scientist  
**Shopkick**, Software Engineer  
**Uber**, Data Scientist  
**Vanderbilt University Medical Center**, Operations Improvement Engineer