School of Engineering and Applied Science

Undergraduate Class of 2021

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 the 474 School of Engineering and Applied Science undergraduates who received their degrees from August 2020–May 2021. Students were surveyed up to six months from their graduation date, with a 55% response rate. Additional information was collected via LinkedIn and other sources, bringing the total knowledge rate up to 83%, a total of 392 known graduate outcomes.

Sections

1. Post-Graduation Plans
2. Full-Time Employment
3. Industries & Top Hiring Employers
4. Job Function
5. Geography
6. Job Offers & Hiring Timeline
7. Salary & Bonuses
8. Continuing Education
9. Graduate Programs & Degree Level
10. First Destinations by Major *

*Coming soon!
Post-Graduation by the Numbers

Known Outcomes

- Full-Time Employment: 76.0%
- Continuing Education: 17.3%
- Seeking Employment: 2.6%
- Part-Time Employment: 2.0%
- Seeking Continuing Education: 1.3%
- Military: 0.8%

96.2% of graduates with known outcomes were either employed, enrolled in continuing education, volunteering, serving in the military, or not seeking in the first 6 months after graduation.

All Graduates

- Full-Time Employment: 63%
- Continuing Education: 14%
- Unknown: 17%

Post-Graduation: 5 Year Trends

- Continuing Education:
  - 2017: 18.93%
  - 2018: 37.50%
  - 2019: 23.50%
  - 2020: 23.02%
  - 2021: 17.35%

- Employed*:
  - 2017: 75.71%
  - 2018: 58.10%
  - 2019: 72.95%
  - 2020: 72.03%
  - 2021: 78.83%

*Employed includes full-time employed, part-time employed, military service and volunteer service
Full-Time Employment

Top Hiring Employers by Industry

**Consulting**
1. McKinsey & Company (7)
2. Boston Consulting Group (BCG) (6)
3. Accenture (5)
4. EY-Parthenon (4)
   - Bain & Company (4)
   - Deloitte (4)

**Financial Services**
1. Goldman Sachs (10)
2. Morgan Stanley (7)
3. Citadel and Citadel Securities (3)
   - BlackRock (3)

**Technology**
1. Microsoft (21)
2. Amazon (17)
3. Facebook (11)
4. Google, Inc. (10)
5. Cadre (4)
   - Apple (4)
   - Palantir Technologies (4)

**Other**
1. Tesla (4)
2. General Motors (2)
   - Procter & Gamble (P&G) (2)

Employment by Industry

292 responses

- **Technology** (42%)
- **Financial Services** (21%)
- **Consulting** (17%)
- **Automotive** (3%)
- **Pharmaceuticals/Biotechnology** (3%)
- **Consumer Products** (2%)
- **Media/Journalism/Entertainment** (2%)
- **Manufacturing - Other** (2%)
- **Education** (1%)
- **Healthcare** (1%)
- **Other** (1%)
- **Engineering** (1%)
- **Aerospace** (1%)
- **Computer Products - Hardware** (1%)
- **Retail/Wholesale** (1%)
- **Sports/Hospitality/Food Service** (1%)
- **Government** (1%)
Full-Time Employment

Employment by Job Function

288 responses

- Software Development/Engineering: 110 / 38%
- Consulting: Management/Strategy: 36 / 13%
- Product/Project Management (Technology): 22 / 8%
- Data Analytics: Data Science: 22 / 8%
- Research & Development: 18 / 6%
- Finance: Investment Banking: 13 / 5%
- Consulting: Technology: 10 / 3%
- Product Design/Development: 8 / 3%
- Finance: Trading: 6 / 2%
- Technology Analysis: 5 / 2%
- Entrepreneur/Founder: 4 / 1%
- Systems Engineering/Analysis: 4 / 1%
- Animation: 3 / 1%
- Finance: Private Equity: 3 / 1%
- Finance: Investment Management/Counsel: 3 / 1%
- Finance: Financial Planning & Analysis (non-bnkg): 3 / 1%
- Game Development: 2 / 0.7%
- Manufacturing: 2 / 0.7%
- Finance: Risk Management: 2 / 0.7%
- Data Analytics: Data Analytics: 2 / 0.7%
- Research: Clinical: 1 / 0.3%
- Product/Brand Management: 1 / 0.3%
- Production (Media): 1 / 0.3%
- Legal Support: 1 / 0.3%
- Clinical Other - Non-Nursing: 1 / 0.3%
- Management: 1 / 0.3%
- Research: Biomedical: 1 / 0.3%
- Real Estate Investment: 1 / 0.3%
- Finance: Securities Research: 1 / 0.3%
- Testing/Quality/Evaluation: 1 / 0.3%
Full-Time Employment

Employment by State

29% of those with identified locations were working in New York City

Internationally

3% of those with identified locations
7 students in 7 countries

Brazil
Canada
Germany
Indonesia
Japan
Mexico
United Kingdom

International Students

Of the 43 respondents working full-time who identified as foreign nationals, 40 (93%) were employed in the U.S.

U.S. Employers of Foreign Nationals

Consulting
Boston Consulting Group (BCG)
McKinsey & Company

Financial Services
Bank of America
Belvedere Trading, LLC
BlackRock
Centerview Partners
Citadel and Citadel Securities
Evercore
Goldman Sachs
Jane Street
Lazard
Morgan Stanley

Technology
Amazon
Apple
Cadre
Facebook
Google, Inc.
Intuit, Inc.
Microsoft
Neeva
Nuro, Inc.
NVIDIA

Social Finance Inc. (SoFi)
Susquehanna International Group, LLP

Praetorian
Zynga

Other
Cruise
Galatea Associates
Nuro, Inc.
Penn Medicine
Rani Therapeutics
Riot Games
Takt
Tesla
Veeco
Full-Time Employment

Hiring Timeline

175 responses

- 68% of graduates working full-time accepted offers before January, primarily working in early recruiting industries like Technology, Finance, and Consulting.

How They Heard About the Job

133 responses

- 34% of full-time opportunities were found through Career Services.
- 47% accepted return offers from previous employers, primarily in Technology and Financial Services.
- 29% accepted offers from On Campus Interviews (through a previous employer or through OCI directly).

- Career Services: 34%
- Applied Directly: 26%
- Previous Employer (Non-OCI): 24%
- Penn Contacts: 11%
- Non-Penn Contact: 4%
- Other: 2%
# Full-Time Employment

## Average Starting Salary

<table>
<thead>
<tr>
<th>SEAS</th>
<th>Respondents</th>
<th>Average</th>
<th>Median</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEAS</strong></td>
<td>127</td>
<td><strong>$100,321</strong></td>
<td><strong>$95,000</strong></td>
<td><strong>$20,000</strong></td>
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<tr>
<td><strong>SEAS Only</strong></td>
<td>95</td>
<td><strong>$99,315</strong></td>
<td><strong>$95,000</strong></td>
<td><strong>$40,000</strong></td>
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<tr>
<td>Women</td>
<td>45</td>
<td><strong>$99,487</strong></td>
<td><strong>$95,000</strong></td>
<td><strong>$40,000</strong></td>
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<tr>
<td>Men</td>
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<td><strong>$99,161</strong></td>
<td><strong>$97,500</strong></td>
<td><strong>$60,000</strong></td>
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<td><strong>SEAS/CAS – Dual Degree</strong></td>
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<td>-</td>
<td>-</td>
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<tr>
<td>Women</td>
<td>0</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Men</td>
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<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>SEAS/NUR – Dual Degree</strong></td>
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<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Women</td>
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<td>-</td>
</tr>
<tr>
<td>Men</td>
<td>0</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>SEAS/WH – Dual Degree</strong></td>
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<td><strong>$99,694</strong></td>
<td><strong>$90,000</strong></td>
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<td>Women</td>
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<td><strong>$94,188</strong></td>
<td><strong>$85,000</strong></td>
<td><strong>$78,000</strong></td>
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<tr>
<td>Men</td>
<td>22</td>
<td><strong>$101,696</strong></td>
<td><strong>$105,250</strong></td>
<td><strong>$20,000</strong></td>
</tr>
</tbody>
</table>

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

Top Graduate Schools Accepted by Discipline

**Engineering**
1. University of Pennsylvania (41)
2. Stanford University (2)

**Medicine**
1. University of Pennsylvania (3)
2. Emory University (1)
   - Northwestern University (1)
   - Temple University (1)
   - Cleveland Clinic Lerner College of Medicine (1)

**Other**
1. University of Pennsylvania (4)
2. Yale University (1)
   - University of Texas at Austin (1)
   - University of Chicago (1)
   - University of California - San Diego (1)
   - Stanford University (1)
   - Princeton University (1)
   - Massachusetts Institute of Technology (1)

Continuing Education Degree Level

- Masters, 71%
- Doctorate, 29%

68 responses

Continuing Education by Field of Study

- Engineering: 74%
- Science (non-medical): 12%
- Medicine: 10%
- Design: 3%
- Business: 1%

68 responses