School of Engineering & Applied Science
Undergraduate Career Plans Survey Report 2016-2017

Post-Graduation Plans
(88% Reporting)

- Full-Time Employed: 75%
- Seeking Graduate Study: 1%
- Not Seeking: 1%
- Seeking Employment: 4%
- Other: <1%

Destinations
(254 Reporting)

Method of Obtaining Job Offer

Average Salary: $90,905
3.8% increase over prior year

Top Employers
- Google
- Amazon
- Capital One
- Bloomberg
- Goldman Sachs
- Johns Hopkins University
- Carnegie Mellon University

Top Graduate Schools
- Stanford University
- Massachusetts Institute of Technology
- Harvard University
- University of California, Berkeley
- University of Illinois at Urbana-Champaign
- University of Southern California
- University of Texas at Austin
- University of California, Los Angeles
- University of Washington
- University of California, Santa Barbara

School of Engineering & Applied Science
Undergraduate Career Plans Survey Report 2016-2017
OVERVIEW

Each year Career Services surveys the School of Engineering & Applied Science (SEAS) graduating class to gather information about their post-graduation plans. This report summarizes the responses from August and December 2016, May 2017 Bachelor of Science in Engineering (BSE) and Bachelor of Applied Science (BAS) degree recipients. The school awarded 402 undergraduate degrees. Career Services received 354 responses, representing an 88% response rate.

The overall average salary of the employed respondents rose by 3.8% to $90,905. As in previous years, engineers have the highest reported average starting salary of all Bachelor’s level students at Penn, and a higher average salary than the national average for engineers. The average salary of Penn Engineering majors (not including computer science related) was $79,357 compared to the national average of $64,530. Graduates in computer related majors at Penn averaged $104,630 compared to the national average of $74,183. The average salaries for all SEAS majors was higher than the national averages provided by the National Association of Colleges and Employers, NACE Salary Survey, Fall 2017 Executive Summary.

METHODOLOGY

Engineering students graduating with either a BAS or BSE degree in August 2016, December 2016 and May 2017 responded to several email requests to complete the Career Plans Survey on line between April and November 2017. In October, a friendly request (email and phone) was made to students who had not responded to earlier requests or who had previously indicated they were still seeking employment or graduate school admission. A search of LinkedIn was conducted to find and identify any updated information from those who had not responded to all requests. This information was utilized when the graduates or the department verified subsequent follow-up. Department Coordinators were contacted to acquire post-graduate data on all the remaining non-respondents.

SECTION 1 – PURSUITS

<table>
<thead>
<tr>
<th>Plan</th>
<th>Responses</th>
<th>2016-2017 %</th>
<th>2015-2016 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-Time Employment</td>
<td>266</td>
<td>75</td>
<td>76</td>
</tr>
<tr>
<td>Attending Full-Time Graduate School</td>
<td>67</td>
<td>19</td>
<td>21</td>
</tr>
<tr>
<td>Seeking Full-time Employment</td>
<td>13</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Seeking Graduate School Admission</td>
<td>3</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Other</td>
<td>2</td>
<td>&lt;1</td>
<td>&lt;1</td>
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<tr>
<td>Not Seeking</td>
<td>3</td>
<td>1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>TOTAL</td>
<td>354</td>
<td>100.0</td>
<td>100</td>
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</table>
### SECTION 2 - ANALYSIS OF EMPLOYED RESPONDENTS

<table>
<thead>
<tr>
<th>Number Accepted</th>
<th>Organization</th>
</tr>
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<tbody>
<tr>
<td>13</td>
<td>Google</td>
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<tr>
<td>12</td>
<td>Microsoft</td>
</tr>
<tr>
<td>9</td>
<td>Amazon</td>
</tr>
<tr>
<td>8</td>
<td>Capital One</td>
</tr>
<tr>
<td>7</td>
<td>Facebook</td>
</tr>
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</table>

### Geographic Distribution of Jobs

<table>
<thead>
<tr>
<th>Area</th>
<th>Number</th>
<th>Percent %</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>Northeast</td>
<td>16</td>
<td>6</td>
</tr>
<tr>
<td>Mid-Atlantic</td>
<td>124</td>
<td>49</td>
</tr>
<tr>
<td>Southeast</td>
<td>13</td>
<td>5</td>
</tr>
<tr>
<td>Midwest</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>Southwest</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>West</td>
<td>59</td>
<td>23</td>
</tr>
<tr>
<td>Northwest</td>
<td>22</td>
<td>9</td>
</tr>
<tr>
<td>Abroad</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>254</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Date Received Offer

- 26% of students received the job offer they accepted before returning for their Senior year
- 94% received their job offer by Graduation*

*196 reporting

### On-Campus Recruiting Interview Activity

- Total Number of Employers: 290
- Total Number of Scheduled Interviews: 8,394

### Range and Average Number of First Round Interviews per Employed Student

- All First Round Interviews
  - Range: 1 - 50
  - Average: 7.2

---
Range and Average Number of Job Offers Received Per Student

<table>
<thead>
<tr>
<th>All Job Offers</th>
<th>Range</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 - 20</td>
<td>2.4</td>
</tr>
</tbody>
</table>

How Full-time Employed Respondents Received Their Job Offer (183 responses)

<table>
<thead>
<tr>
<th>Method</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-Campus Recruiting (OCR)</td>
<td>22%</td>
</tr>
<tr>
<td>Previous OCR Employer (summer internship obtained through OCR, resulting in full-time offer)</td>
<td>16%</td>
</tr>
<tr>
<td>Applied Directly to Organization</td>
<td>19%</td>
</tr>
<tr>
<td>Other Career Services Leads (career fairs, job postings, meet &amp; greet events, programs)</td>
<td>11%</td>
</tr>
<tr>
<td>Previous non-OCR Employer (summer internship not obtained through OCR, resulting in full-time offer)</td>
<td>16%</td>
</tr>
<tr>
<td>Contacts</td>
<td>3%</td>
</tr>
<tr>
<td>Other</td>
<td>6%</td>
</tr>
<tr>
<td>Department</td>
<td>7%</td>
</tr>
</tbody>
</table>

Average Starting Salary by Year

Average Starting Salary
65% of the employed students reported their salaries
The salary range for 2017 was $30,000 - $175,000, with the average being $90,905

Average Bonus Figure
Sign-on Bonus: $18,264 (based on 87 responses). Range for sign-on bonus was $2,000 - $85,000
Annual Bonus: 92 graduates reported that they expect to receive an annual bonus
### Average Salary by Major

<table>
<thead>
<tr>
<th>Major</th>
<th>Surveys with Salaries</th>
<th>Average Salary</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Science</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biomedical Science</td>
<td>6</td>
<td>$69,083</td>
<td>$34,000 - $80,000</td>
</tr>
<tr>
<td>Computer &amp; Cognitive Science</td>
<td>1</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Computer Science</td>
<td>17</td>
<td>$99,941</td>
<td>$70,000 - $120,000</td>
</tr>
<tr>
<td>Bioengineering</td>
<td>16</td>
<td>$75,666</td>
<td>$36,500 - $112,000</td>
</tr>
<tr>
<td>Chemical and Biomolecular Engineering</td>
<td>9</td>
<td>$69,000</td>
<td>$30,000 - $99,000</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>4</td>
<td>$107,500</td>
<td>$83,000 - $135,000</td>
</tr>
<tr>
<td>Digital Media Design</td>
<td>5</td>
<td>$89,300</td>
<td>$75,000 - $131,500</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>5</td>
<td>$101,000</td>
<td>$85,000 - $125,000</td>
</tr>
<tr>
<td>Individualized</td>
<td>1</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Materials Science and Engineering</td>
<td>4</td>
<td>$77,500</td>
<td>$72,000 - $85,000</td>
</tr>
<tr>
<td>Mechanical Engineering and Applied Mechanics</td>
<td>25</td>
<td>$76,416</td>
<td>$38,400 - $175,000</td>
</tr>
<tr>
<td>Networked and Social Systems Engineering</td>
<td>6</td>
<td>$100,833</td>
<td>$72,500 - $125,000</td>
</tr>
<tr>
<td>Systems Science and Engineering</td>
<td>20</td>
<td>$80,250</td>
<td>$57,500 - $120,000</td>
</tr>
<tr>
<td>Grand Total</td>
<td>173</td>
<td>$90,905</td>
<td>$30,000 - $175,000</td>
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</tbody>
</table>

### Average Salary by School & Degree

<table>
<thead>
<tr>
<th>Schools</th>
<th>Surveys with Salaries</th>
<th>Average Salary</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEAS Only</td>
<td>98</td>
<td>$89,055</td>
<td>$30,000 - $135,000</td>
</tr>
<tr>
<td>SEAS/CAS – Dual Degree</td>
<td>4</td>
<td>$93,250</td>
<td>$73,000 - $115,000</td>
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<tr>
<td>SEAS/SEAS – Dual Degree</td>
<td>23</td>
<td>$89,377</td>
<td>$36,500 - $135,000</td>
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<tr>
<td>SEAS/WH – Dual Degree</td>
<td>44</td>
<td>$93,352</td>
<td>$45,000 - $175,000</td>
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<tr>
<td>SEAS/SEAS/GAS – Triple Degree</td>
<td>1</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>SEAS/SEAS/WH – Triple Degree</td>
<td>3</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

*Salary/Salaries not reported to maintain confidentiality, where there are three or fewer responses

### Average Salary by Gender

<table>
<thead>
<tr>
<th>Schools</th>
<th>Surveys with Salaries</th>
<th>Average Salary</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEAS Only</td>
<td>98</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>32</td>
<td>$83,969</td>
<td>$34,000 - $131,500</td>
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<tr>
<td>Male</td>
<td>66</td>
<td>$91,521</td>
<td>$30,000 - $135,000</td>
</tr>
<tr>
<td>SEAS/CAS – Dual Degree</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>0</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Male</td>
<td>4</td>
<td>$93,250</td>
<td>$73,000 - $115,000</td>
</tr>
<tr>
<td>SEAS/SEAS – Dual Degree</td>
<td>23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>9</td>
<td>$74,056</td>
<td>$36,500 - $110,000</td>
</tr>
<tr>
<td>Male</td>
<td>14</td>
<td>$99,226</td>
<td>$56,000 - $135,000</td>
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<tr>
<td>SEAS/WH – Dual Degree</td>
<td>44</td>
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</tr>
<tr>
<td>Female</td>
<td>15</td>
<td>$83,500</td>
<td>$57,500 - $103,000</td>
</tr>
<tr>
<td>Male</td>
<td>29</td>
<td>$98,448</td>
<td>$45,000 - $175,000</td>
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</tbody>
</table>
### Average Salary by Job Type (173 salaries with surveys)

<table>
<thead>
<tr>
<th>Job Type</th>
<th>Surveys with Salaries</th>
<th>Average Salary</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consulting</td>
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<td></td>
</tr>
<tr>
<td>Research</td>
<td>1</td>
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<tr>
<td>Technology / Information Systems</td>
<td>5</td>
<td>$77,500</td>
<td>$72,500 - $95,000</td>
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<tr>
<td>Management / Strategy</td>
<td>18</td>
<td>$74,389</td>
<td>$68,000 - $90,000</td>
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<tr>
<td>Data Science</td>
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<tr>
<td>Analyst</td>
<td>9</td>
<td>$90,000</td>
<td>$66,000 - $120,000</td>
</tr>
<tr>
<td>Education</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teaching</td>
<td>1</td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>Energy/Environment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exploration and Production</td>
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<td></td>
<td>*</td>
</tr>
<tr>
<td>Engineering</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>6</td>
<td>$78,900</td>
<td>$38,400 - $120,000</td>
</tr>
<tr>
<td>Manufacturing / Production</td>
<td>5</td>
<td>$69,000</td>
<td>$56,000 - $73,000</td>
</tr>
<tr>
<td>Research &amp; Development</td>
<td>6</td>
<td>$76,733</td>
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<td>Project Management</td>
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<tr>
<td>Systems</td>
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<td>*</td>
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<td>Finance</td>
<td></td>
<td></td>
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<tr>
<td>Investment Banking</td>
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<td>$80,000 - $100,000</td>
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<td>Investment Management/Counsel</td>
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<td>*</td>
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<td>Securities Research</td>
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<td>Information Technology</td>
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</tr>
<tr>
<td>Product Designer</td>
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<tr>
<td>Program Manager</td>
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<td>$103,313</td>
<td>$70,500 - $120,000</td>
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<tr>
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<td>60</td>
<td>$110,333</td>
<td>$65,000 - $150,000</td>
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<tr>
<td>Technical Analyst</td>
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<td>$82,000</td>
<td>$70,000 - $115,000</td>
</tr>
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<td>Technical Director</td>
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<tr>
<td>Technical Support Specialist</td>
<td>2</td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>Management/Administration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entrepreneur / Founder</td>
<td>2</td>
<td></td>
<td>*</td>
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<tr>
<td>Operations</td>
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<td></td>
<td>*</td>
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<td>Marketing</td>
<td></td>
<td></td>
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<tr>
<td>Product / Brand Management</td>
<td>3</td>
<td></td>
<td>*</td>
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<tr>
<td>Sales</td>
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<td></td>
<td>*</td>
</tr>
<tr>
<td>Scientific Research</td>
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</tr>
<tr>
<td>Biomedical</td>
<td>4</td>
<td>$39,165</td>
<td>$30,000 - $56,160</td>
</tr>
</tbody>
</table>

*Salary/Salaries not reported to maintain confidentiality, where there are three or fewer responses*
# Average Salary by Industry

(173 surveys with salaries)

<table>
<thead>
<tr>
<th>Industry</th>
<th>Surveys with Salaries</th>
<th>Average Salary</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communications</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Media/Entertainment</td>
<td>4</td>
<td>$92,750</td>
<td>$75,000 - $120,000</td>
</tr>
<tr>
<td><strong>Consulting</strong></td>
<td>24</td>
<td>$72,854</td>
<td>$62,000 - $82,500</td>
</tr>
<tr>
<td><strong>Education</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For Profit Education</td>
<td>2</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td><strong>Energy / Natural Resources / Utilities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>$87,500</td>
<td>$72,000 - $99,000</td>
</tr>
<tr>
<td><strong>Financial Services</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diversified Financial Services (including Commercial/Retail Banking)</td>
<td>7</td>
<td>$92,571</td>
<td>$70,000 - $130,000</td>
</tr>
<tr>
<td>Hedge Fund</td>
<td>7</td>
<td>$122,857</td>
<td>$85,000 - $175,000</td>
</tr>
<tr>
<td>Investment Banking/Brokerage</td>
<td>18</td>
<td>$87,500</td>
<td>$80,000 - $100,000</td>
</tr>
<tr>
<td>Investment Management/Counsel</td>
<td>8</td>
<td>$81,875</td>
<td>$70,000 - $105,000</td>
</tr>
<tr>
<td>Private Equity</td>
<td>1</td>
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<td>*</td>
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<tr>
<td>Venture Capital</td>
<td>3</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td><strong>Government</strong></td>
<td>1</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td><strong>Healthcare</strong></td>
<td>3</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td><strong>Hospitality/Leisure/Sports</strong></td>
<td>3</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td><strong>Manufacturing</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aerospace</td>
<td>4</td>
<td>$60,350</td>
<td>$38,400 - $70,000</td>
</tr>
<tr>
<td>Automotive</td>
<td>1</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Biomedical Products/Pharmaceuticals</td>
<td>8</td>
<td>$69,895</td>
<td>$56,000 - $85,000</td>
</tr>
<tr>
<td>Computer Products – hardware</td>
<td>2</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Consumer Products</td>
<td>3</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Electronics/Robotics</td>
<td>4</td>
<td>$88,250</td>
<td>$48,000 - $125,000</td>
</tr>
<tr>
<td><strong>Non-Profit</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Interest/Advocacy</td>
<td>1</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td><strong>Real Estate / Construction</strong></td>
<td>2</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td><strong>Technology</strong></td>
<td>62</td>
<td>$104,508</td>
<td>$45,000 - $135,000</td>
</tr>
<tr>
<td><strong>Transportation</strong></td>
<td>1</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

*Salary/Salaries not reported to maintain confidentiality, where there are three or fewer responses*
All Employed Respondents by Job Type
(with Engineering Breakdown)

- Technology: 45%
- Consulting: 11%
- Engineering: 15%
- Manufacturing/Production: 19%
- Design: 31%
- Research and Development: 22%
- Systems: 6%
- Project Management: 22%
- Data Science: 4%
- Education: 1%
- Energy: >1%
- Other: 1%
- Scientific Research: 3%
- Management: 4%
- Marketing: 2%
- Finance: 14%
All Employed Respondents by Industry
(with Manufacturing Breakdown)

- Technology: 35%
- Financial Services: 22.7%
- Manufacturing: 13%
- Consulting: 12%
- Telecommunications: 1%
- Communications: 3%
- Design: 1%
- Education: 1%
- Energy/Natural Resources/Utilities: 3%
- Government: 1%
- Health Care: 3%
- Hospitality/Leisure/Sports: 1%
- Other: 1%
- Not for Profit: 1%
- Real Estate/Construction: 1%
- Aerospace: 17%
- Biomedical/Pharma: 39%
- Electronics/Robotics: 19%
- Consumer Products: 17%
- Automotive: 3%
- Computer Products - Hardware: 5%
Employers Reported by Major

ENGINEERING SINGLE DEGREES

Applied Science – Biomedical Science
Children's Hospital of Philadelphia, Philadelphia, PA, Clinical Research Assistant
Collective Health, San Francisco, CA, Member Advocate
JRI America, Inc., New York, NY, Junior Information Security Practitioner
Microsoft, Las Colinas, TX, Project Manager
PwC, New York, NY, Associate

Applied Science- Computer Science
Applied Predictive Technologies, Arlington, VA, Associate Product Manager
BlackRock, New York, NY, Analyst
Capital One, McLean, VA, Associate Data Engineer
Citadel LLC, Chicago, IL, Software Engineer
Enclave Inc., Philadelphia, PA, Project Lead
Quorum Analytics, Washington, DC, Software Engineer

Applied Science - Individualized
LightSpeed Innovations, Los Angeles, CA, Associate Partner

Bioengineering
Abbott, Burlington, MA, Product Development Engineer
Cello Health, New York, NY, Managing Consultant
Docusign, San Francisco, CA, Software Engineer
Epic Systems, Verona, WI, Technical Problem Solver
Facebook, Menlo Park, CA, Software Engineer
Google, Mountain View, CA, Software Engineer
Group K Diagnostics, Philadelphia, PA, CEO
Guggenheim Partners, New York, NY, Analyst
Halma, London, Non-US, United Kingdom of Great Britain and Northern Ireland, Graduate Trainee
Heidrick & Struggles, New York, NY, Analyst
Hospital of the University of Pennsylvania, Philadelphia, PA, Research Specialist (Neurosurgery
Navigant Consulting, New York, NY, Life Science Strategy Consultant
Novantas, New York, NY, Associate
The Newman Center @ St. Agatha-St. James, Philadelphia, PA, Assistant Director of Development
University of Pennsylvania, Philadelphia, NJ, Investment Analyst
University of Pennsylvania Health System, Philadelphia, PA, Research Specialist A
Venture for America, Cincinnati, OH, Fellow

Chemical and Biomolecular Engineering
City of Chicago, Water Department, Chicago, IL, Water Chemist
Diagio, Location not provided, Process Engineering Lead
ExxonMobil, Spring, TX, Engineer
GSK, Philadelphia, PA, Business & Technology Consultant
Merck and Co., Elkton, VA, Associate Specialist, Engineering
Merck and Co., West Point, PA, Associate Specialist, Engineering
Mitsubishi UFJ Financial Group, Location not provided, Analyst
Navigant Consulting, New York, NY, Consultant
Prudential Fixed Income, Newark, NJ, Investment Professional Rotation Program
The Brattle Group, Washington, DC, Research Analyst
University of Pennsylvania Health System, Philadelphia, PA, Harrison Surgical Scholar
Venture for America, New York, NY, 2017 Venture for America Fellow
Computer Engineering
Bloomberg, New York, NY, Software Engineer
Facebook, Menlo Park, CA, Production Engineer
Intel, Allentown, PA, Embedded Software Developer
Microsoft, Redmond, WA, Program Manager
NTT Doocomo, Tokyo, Japan, Software Engineer

Computer Science
Aerotech, Pittsburgh, PA, Software Engineer
Affirm, Inc., San Francisco, CA, Software Engineer
Airbnb, San Francisco, CA, Software Engineer
Airbnb, San Francisco, CA, Software Engineer
Amazon, Seattle, WA, Software Development Engineer
Amazon, Seattle, WA, Software Engineer
Amazon, Seattle, WA, Software Development Engineer
Apple, Cupertino, CA, Software Engineer
Bloomberg, New York, NY, Software Engineer
Boston Consulting Group Digital Ventures, Manhattan Beach, CA, Product Manager
Bridgewater, Westport, CT, Technology Associate
Cadre, New York, NY, Data Engineer
Capital One, Washington, DC, Software Engineer
Capital One, McLean, VA, Software Engineer
Capital One, McLean, VA, Associate Software Engineer
Codeable 7, Remote, Android Developer
Comcast, Philadelphia, PA, CORE Technology Associate
Facebook, Menlo Park, CA, Software Engineer
Facebook, Menlo Park, CA, Software Engineer
Goldman Sachs, New York, NY, Title not provided
Google, New York, NY, Software Engineer
Google, San Bruno, CA, Software Engineer
Google, Mountain View, CA, Software Engineer
Google, Mountain View, CA, Software Engineer
Google, San Francisco, CA, Software Engineer
Google, New York, NY, Software Engineer
Google, Mountain View, CA, Software Engineer
Guardian Life Insurance Company, Bethlehem, PA, Web Developer
IBM, New York, NY, Business Consultant
Linkedin, Location not provided, Associate Product Manager
MedTrak, Conshohocken, PA, Software Engineer
Microsoft, Redmond, WA, Software Engineer
Microsoft, Redmond, WA, Software Engineer
Microsoft, Seattle, WA, Software Engineer
Microsoft, Redmond, WA, Software Engineer
Palantir Technologies, New York, NY, Forward Deployed Engineer
Palantir Technologies, New York, NY, Forward Deployed Software Engineer
Piano, Philadelphia, PA, UI/UX Designer
Qualtrics, Seattle, WA, Software Engineer
RaiseMe, San Francisco, CA, Software Engineer
Redfin, Seattle, WA, Software Engineer
Ripple, San Francisco, CA, Software Engineer
Self-Employed
Snap, Los Angeles, CA, Research Engineer
Spotify, New York, NY, Software Engineer
Computer Science (continued)
Susquehanna International Group, Bala Cynwyd, PA, Application Developer
Tapad, New York, NY, Software Engineer
Twitch Inc., San Francisco, CA, Software Engineer
UiPath, New York, NY, Robotic Process Automation Developer/Consultant
UiPath, New York, NY, Technical Consultant
x.ai, New York, NY, Software Engineer
Yale University, New Haven, CT, Lecturer
yext, New York, NY, Software Engineer

Digital Media Design
Audible, Software Engineer
Bloomberg, New York, NY, Software Engineer
Bridgewater, Westport, CT, Technology Associate
Esri, Redlands, CA, Product Engineer
Google, London, United Kingdom of Great Britain and Northern Ireland, Software Engineer
JPMorgan, New York, NY, Technology Analyst
Microsoft, Seattle, WA, Software Engineer
MPC, Vancouver, British Columbia, Layout Discipline Developer

Electrical Engineering
Qualtrics, Seattle, WA, Software Engineer
Sonos, Boston, MA, Software Development Engineer in Test
Tomorrow Lab, New York, NY, Electrical Engineering Intern

Materials Science and Engineering
Mount Sinai Health System, New York, NY, Research Associate
ZS Associates, Philadelphia, PA, Decision Analytics Associate

Mechanical Engineering and Applied Mechanics
A.T. Kearney, New York, NY, Business Analyst
Amber Connect Ltd., Kingston, Jamaica Product Manager
Apple, Cupertino, CA, Product Design Intern Special Projects Group
Bessolo Design Group, St. Petersburg, FL, Mechanical Engineer
BlackRock, New York, NY, Analyst
Blue Origin, Kent, WA, Intern
Blue Origin, Kent, WA, Engineering Intern
Capital One, McLean, VA, Software Engineer
CliftonLarsonAllen, Location not provided, Audit Associate
Credit Suisse, New York, NY, Analyst
Deloitte, New York, NY, Business Technology Analyst
Deutsche Bank, New York, NY, Analyst
GE Power, Location not provided, Operations Management Leadership Program
Holtec Int., Camden, NJ, Operations Engineer
IBM, New York, NY, Consultant
Jacobs, Philadelphia, PA, Engineer in Training
Lilitofu, San Francisco, CA, Front End Engineer
Matchstick LLC, Boonton, NJ, Associate
MathWorks, Natick, MA, Application Support Engineer
McCormick, Hunt Valley, MD, Process Engineer (3-year Supply Chain Rotation Program)
Microsoft, Dallas, TX, Support Planner (Project Manager)
NAVSEA, Philadelphia, PA, Systems Engineer
Details not provided
**Mechanical Engineering and Applied Mechanics**  
Schlumberger, Dickinson, ND, Field Engineer  
Squarespace, New York, NY, Software Engineer  
Stone Ridge Asset Management, New York, NY, Project Associate

**Networked and Social Systems Engineering**  
Deloitte, New York, NY, Business Technology Analyst  
Deloitte, New York, NY, Business Technology Analyst  
Flatiron Health, New York, NY, Software Engineer  
Marathon Trading, New York, NY, Trader  
Teachers Pay Teachers, New York, NY, Data Scientist

**Systems Science and Engineering**  
Amazon, New York, NY, Software Engineer  
BlackRock, New York, NY, Analyst  
Blackstone, New York, NY, Business Analyst  
Google, New York, NY, Associate Product Manager  
GreenWatts, Veracruz, Mexico, CEO & Co-Founder  
IBM, Boston, MA, Business Strategy Consultant  
Insight Venture Partners, New York, NY, Investment Analyst  
Lisa Communications Limited, Port of Spain, Trinidad and Tobago, Project Manager  
Lockheed Martin, Liverpool, NY, Software Engineer  
QuintilesIMS Health Consulting Services, New York, NY, Consulting Analyst  
RBC Capital Markets, New York, NY, Global Investment Banking Analyst  
Venture for America, Nashville, TN, Fellow

**ENGINEERING DUAL DEGREES (BAS/BSE & MSE)**

**Bioengineering**  
AllSourcePPS, Elkton, VA, Associate Engineer II  
Children's Hospital of Philadelphia, Philadelphia, PA, Research Technician  
Core Human Factors, Bala Cynwyd, PA, Associate  
Diassess Inc, Emoryville, CA, Associate Integration Engineer  
Intel, Santa Clara, CA, Hardware Engineer  
Merit Medical Systems, Malvern, PA, R&D Engineer  
Q-State Biosciences, Cambridge, MA, Research Associate I  
Regeneron Pharmaceuticals, Inc., Tarrytown, NY, Assay Development Associate II

**Chemical and Biomolecular Engineering**  
CytoSorbents Corporation, Monmouth Junction, NJ, Associate Research Engineer

**Computer Engineering**  
Microsoft, Cambridge, MA, Software Engineer  
Wealthfront, Redwood City, CA, Software Engineer

**Computer Science**  
Bloomberg, New York, NY, Software Engineer  
Cloudflare Inc., San Francisco, CA, Systems Engineer  
Google, Seattle, WA, Software Engineer  
Intersystems, Boston, MA, Software Engineer  
Microsoft, Seattle, WA, Software Engineer  
Palantir Technologies, Palo Alto, CA, Application Security Engineer  
Volant Trading, New York, NY, Software Engineer
Digital Media Design
Blue Sky Studios, Greenwich, CT, Department Technical Director
Goldman Sachs, Jersey City, NJ, Technology Analyst

Electrical Engineering
Capital One, Arlington, VA, Product Manager/Business Analyst
Florida Power & Light Company, FL, Protection & Control Engineer
Intuitive Surgical Inc., Sunnyvale, CA, Electrical Engineer

Mechanical Engineering and Applied Mechanics
Ally Financial, Detroit, MI, Software Engineer
Arconic, New Kensington, PA, Process Modeling Engineer
Children's Hospital of Philadelphia, Philadelphia, PA, Clinical Research Coordinator
Comcast, Philadelphia, PA, Mechanical Engineer
Eaton, Cleveland, OH, Engineering & Technology Leadership Development Program
Honeybee Robotics, Pasadena, CA, Project Engineer
IFDC, Irvine, CA, Portfolio Management Associate
Million Dollar Baby, Los Angeles, CA, Operations Associate
Sarcos, Salt Lake City, UT, Mechanical Engineer

Networked and Social Systems Engineering
Airbnb, San Francisco, CA, Software Engineer
Google, New York, NY, Software Engineer
Kaarta Inc., Pittsburgh, PA, Full Stack Software Engineer

Systems Science and Engineering
Civis Analytics, Chicago, IL, Data Analyst

ENGINEERING & CAS

Goldman Sachs, Jersey City, NJ, Technology Analyst

Chemical and Biomolecular Engineering and Chemistry
University of Pennsylvania Health System, Philadelphia, PA, Ophthalmic Scribe

Computer Science & Physics/Astronomy
Facebook, New York, NY, Software Engineer

Electrical Engineering & Physics/Astronomy
Kylin Management, New York, NY, Analyst

Materials Science and Engineering & Earth Science
WL Gore, Newark, DE, Engineer

ENGINEERING & WH

Applied Science-Biomedical Science
Boston Consulting Group, Philadelphia, PA, Associate
Applied Science - Computer Science
Amazon, Seattle, WA, Software Development Engineer
Apple, Cupertino, CA, Engineering Product Manager
Applied Predictive Technologies, Arlington, VA, Associate Product Manager
Barclays, New York, NY, Investment Banking Analyst
Biobots, Philadelphia, PA, Software Engineer
Evercore, New York, NY, Restructuring Analyst
Evercore, New York, NY, Investment Banking Analyst
Fulbright Program - U.S. Department of State, Taiwan, English Teaching Assistant
Goldman Sachs, New York, NY, Analyst
Lyft, San Francisco, CA, Data Scientist
Marathon Trading, New York, NY, Trader
Microsoft, Redmond, WA, Program Manager
Morgan Stanley, Menlo Park, CA, Investment Banking Analyst
Morgan Stanley, San Francisco, CA, Technology Investment Banking Analyst
MTS Health Partners, New York, NY, Analyst
Originiate, Inc, Los Angeles, CA, Software Engineer
SpaceX, Hawthorne, CA, Financial Analyst
Wells Fargo Securities, New York, NY, Analyst
Zynga, San Francisco, CA, Product Manager

Bioengineering
Bank of America Merrill Lynch, San Francisco, CA, Healthcare Investment Banking Analyst
Credit Suisse, San Francisco, CA, Investment Banking Analyst
Quartet Health, Location not provided, Client Engagement

Chemical and Biomolecular Engineering
Flow Traders, New York, NY, Trader
Details not provided

Computer Science
Amazon, Cambridge, MA, Software Development Engineer
Amazon, Seattle, WA, Software Engineer
AQR Capital Management, Greenwich, CT, Research Analyst
Coursera, San Francisco, CA, Software Engineer
Dropbox, San Francisco, CA, Product Manager
Facebook, Menlo Park, CA, Data Scientist
Five Rings Capital, New York, NY, Software Developer
NerdWallet Inc., San Francisco, CA, Software Engineer
Plasticity, San Francisco, CA, Co-Founder
Plasticity, San Francisco, CA, Co-Founder
Undisclosed Startup, New York, NY, Co-Founder

Electrical Engineering
Applied Predictive Technologies, Arlington, VA, Business Consultant

Individualized
Bessemer Venture Partners, New York, NY, Analyst
Materials Science and Engineering
Bain & Company, Boston, MA, Associate Consultant
Centerview Partners, New York, NY, Investment Banking Analyst
System1, Los Angeles, CA, Data Analyst

Mechanical Engineering and Applied Mechanics
AQR Capital Management, Greenwich, CT, Research Analyst
Avascent, Washington, DC, Analyst
Deloitte, New York, NY, Business Analyst
ExxonMobil, Houston, TX, Lubricants Sales Representative
Hasbro, Providence, RI, Assistant Brand Manager
Qatalyst Partners, San Francisco, CA, Analyst
Strategy&, New York, NY, Associate
Tesla, Inc., Palo Alto, CA, Business Operations Analyst
Wells Fargo, New York, NY, Investment Banking Analyst

Systems Science and Engineering
A.T. Kearney, New York, NY, Business Analyst
Amazon, Seattle, WA, Brand Specialist
Capital One, New York, NY, Business Analyst
Capital One, New York, NY, Product Management & Analytics
Censeo Consulting Group, Washington, DC, Business Analyst
Deutsche Bank, New York, NY, Global Markets Analyst
Facebook, Menlo Park, CA, Product Specialist
iSight.ai, Los Altos Hills, CA, Co-Founder and Vice President of Business Development
Moelis & Company, Los Angeles, CA, Investment Banking Analyst
Oliver Wyman, New York, NY, Consultant
Perella Weinberg Partners, New York, NY, Analyst
Signal Hill, Boston, MA, Investment Banking Analyst

ENGINEERING & WH & SEAS (MSE in CIS)

Computer Science
Amazon, Seattle, WA, Software Engineer
Google, Mountain View, CA, Software Engineer
Microsoft, Redmond, WA, Software Engineer

ENGINEERING & WH & SAS (MA in Applied Math & Computational Science)

Electrical Engineering
Citadel LLC, New York, NY, Junior Trader
## SECTION 3 - ANALYSIS OF GRADUATE STUDY RESPONDENTS*

### Degrees Pursued

<table>
<thead>
<tr>
<th>Undergraduate Major</th>
<th>Masters</th>
<th>PhD</th>
<th>MD/DMD</th>
<th>MD/PhD</th>
<th>Postbac</th>
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<tr>
<td>AS – Computer Science</td>
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<td>Bioengineering</td>
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<td>Chemical &amp; Biomolecular Engineering</td>
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<td>Digital Media Design</td>
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<td>Materials Science &amp; Eng.</td>
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<tr>
<td>Mechanical Eng. &amp; Applied Mechanics</td>
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<tr>
<td>Systems Science &amp; Engineering</td>
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<td>1</td>
<td></td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>42</strong></td>
<td><strong>19</strong></td>
<td><strong>4</strong></td>
<td><strong>2</strong></td>
<td></td>
</tr>
</tbody>
</table>

*By SEAS undergraduate major

### Fields of Full-time Graduate Study

- **Engineering**: 59
- **Medicine**: 4
- **Math / Science**: 2
- **Other**: 2

*By SEAS undergraduate major*
Graduate Schools Reported by Major

Graduate Schools to be Attended by Two or More Graduate Study Respondents

**ENGINEERING UNDERGRADUATE MAJORS**

**Applied Science – Biomedical Science**
University of Pennsylvania, Philadelphia, PA, MB, Biotechnology
University of Washington, Seattle, WA, MD

**Applied Science – Computer Science**
Institut Polytechnique de Grenoble: Grenoble Institute of Technology, Grenoble, France, MS, Ubiquitous and Interactive Systems
University of Pennsylvania, Philadelphia, PA, MSE, Computer & Information Science

**Bioengineering**
Duke University, Durham, NC, MD
Georgia Institute of Technology, Atlanta, GA, PhD, Biomedical Engineering
Rice University, Houston, TX, MSE, Global Medical Innovation (Bioengineering)
Seoul National University, Seoul, Republic of Korea, MD, Medicine
Stanford University, Stanford, CA, PhD, Bioengineering
University of California - San Diego, San Diego, CA, PhD, Computer Science
University of Cambridge, Cambridge, United Kingdom of Great Britain and Northern Ireland, MPhil, Engineering
University of Pennsylvania, Philadelphia, PA, MSE, Biotechnology
University of Pennsylvania, Philadelphia, PA, MSE, Bioengineering
University of Pennsylvania, Philadelphia, PA, MSE, Bioengineering
University of Pennsylvania, Philadelphia, PA, MSE, Bioengineering
University of Pennsylvania, Philadelphia, PA, Other, Post Bac for Medical School
University of Pennsylvania, Philadelphia, PA, MSE, Bioengineering
University of Pennsylvania, Philadelphia, PA, MSE, Mechanical Engineering and Applied Mechanics
University of Pennsylvania, Philadelphia, PA, MSE, Systems Engineering
University of Pennsylvania, Philadelphia, PA, MSE, Bioengineering
University of Pennsylvania, Philadelphia, PA, MSE, Bioengineering
University of Southern California, Los Angeles, CA, MS, Biomedical Engineering (Medical Device & Diagnostic Engineering)
University of Virginia, Charlottesville, NY, PhD, Bioengineering

**Chemical and Biomolecular Engineering**
Harvard Medical School, Boston, MA, United States of America, MD
Johns Hopkins University, Baltimore, MD, PhD, Chemical and Biomolecular Engineering
Chemical and Biomolecular Engineering (continued)
Northwestern University, Evanston, IL, PhD, Engineering, Chemical and Biological Engineering
Stanford University, Palo Alto, CA, PhD, Engineering, Chemical Engineering
University College London, London, United Kingdom, MSE, Drug Development & Pharmaceutical Management
University of Delaware, Newark, DE, PhD, Engineering, Chemical Engineering
University of Pennsylvania, Philadelphia, PA, MB, Biotechnology
University of Pennsylvania, Philadelphia, PA, Other, Post Bac for Medical School
University of Pennsylvania, Philadelphia, PA, MB, Biotechnology
University of Pennsylvania, Philadelphia, PA, MSE, Engineering, Chemical and Biomolecular Engineering
University of Pennsylvania, Philadelphia, PA, MSE, Engineering, Chemical and Biomolecular Engineering

Computer Science
Carnegie Mellon University, Pittsburgh, PA, PhD, Engineering, Robotics
Carnegie Mellon University, Pittsburgh, PA, PhD, Computer Science
Johns Hopkins University, Baltimore, MD, MSE, Engineering
Massachusetts Institute of Technology, Cambridge, MA, PhD, Engineering, Computer Science
Princeton, Princeton, NJ, PhD, Computer Science
University of Pennsylvania, Philadelphia, PA, MSE, Computer & Information Science
University of North Carolina - Chapel Hill, NC, PhD, Mathematics
University of Pennsylvania, Philadelphia, PA, MSE, Engineering, Robotics
University of Pennsylvania, Philadelphia, PA, MSE, Computer & Information Science
University of Pennsylvania, Philadelphia, PA, MSE, Computer & Information Science
University of Pennsylvania, Philadelphia, PA, MSE, Computer & Information Science
University of Pennsylvania, Philadelphia, PA, MSE, Computer Graphics & Game Technology
University of Pennsylvania, Philadelphia, PA, MSE, Robotics

Digital Media Design
University of Pennsylvania, Philadelphia, PA, MSE, Computer Graphics & Game Technology

Materials Science and Engineering
Georgia Institute of Technology, Atlanta, GA, PhD, Materials Science and Engineering
Georgia Institute of Technology, Atlanta, GA, PhD, Materials Science and Engineering
Massachusetts Institute of Technology, Cambridge, MA, PhD, Materials Science and Engineering
University of California at Berkeley, Berkeley, CA, PhD, Materials Science and Engineering

Mechanical Engineering and Applied Mechanics
Stanford University, Palo Alto, CA, PhD, Mechanical Engineering
University of Michigan, Ann Arbor, MI, MSE, Aerospace Engineering
University of Pennsylvania, Philadelphia, PA, MIPD, Integrated Product Design
University of Pennsylvania, Philadelphia, PA, MSE, Design for Manufacturing
University of Pennsylvania, University of Pennsylvania, PA, MSE, Robotics
University of Pennsylvania, University of Pennsylvania, PA, MSE, Robotics
University of Pennsylvania, Philadelphia, PA, MSE, Mechanical Engineering & Applied Mechanics
University of Pennsylvania, Philadelphia, PA, MSE, Robotics
University of Pennsylvania, Philadelphia, PA, MSE, Mechanical Engineering & Applied Mechanics
University of Pennsylvania, Philadelphia, PA, MSE, Robotics
University of Pennsylvania, Philadelphia, PA, MSE, Mechanical Engineering & Applied Mechanics

Systems Engineering
Stanford University, Palo Alto, CA, PhD, Electrical Engineering
University of Pennsylvania, Philadelphia, PA, MSE, Systems Engineering