Overview

Each year, Career Services surveys SEAS students who earned Master’s degrees to gather information about their post-graduation plans. This report includes data from students who graduated in December 2009, May and August 2010. Information was gathered on 294 (84.2%) of the 349 Master’s degree recipients. We do not survey graduates from the Executive Masters in Technology Management Program.

Manufacturing and technology continue to be the top sectors for graduates. 50% of the graduates employed in engineering jobs were in the aerospace and pharmaceuticals industries. One sector realized the most gains in students accepting positions: financial services was up 9% over last year due to the stabilization of the financial industry. In all sections of this report, average salaries include respondents who were beginning full-time employment or were continuing current employment. The overall average salary for SEAS Master's respondents was $67,477, a 6.8% increase over last year.

Prepared by: Rosette Pyne, Senior Associate Director
Robert Gannone, Administrative Assistant
February 2011

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METHODOLOGY

A complete list of graduating Master’s students, excluding students in the Executive Masters of Technology and Management program, was provided by the SEAS Academic Programs Office. Engineering students graduating with a Master’s degree in December 2009, May and August 2010 responded to two email requests (one from Career Services and one from the SEAS Academic Programs Office) to complete the Career Plans Survey on the Career Services website. In December a friendly reminder to complete the survey was sent to those who had not responded to earlier requests or who had previously indicated they were still seeking employment or graduate school admission. The Penn Alumni Directory on line and LinkedIn were searched to update information from those who had no responded to all requests.

PURSUITS UPON GRADUATION

- **Graduate School**: 23%
- **Full-Time Employed**: 55%
- **Self Employed**: 1%
- **Continuing Current Employment**: 8%
- **Other Plans**: 2%
- **Seeking Graduate School**: 1%
- **Seeking Employment**: 10%
SECTION 1 – ANALYSIS OF EMPLOYED RESPONDENTS

GEOGRAPHIC DISTRIBUTION OF EMPLOYMENT

<table>
<thead>
<tr>
<th>Area</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td></td>
</tr>
<tr>
<td>Mid Atlantic</td>
<td>66.8%</td>
</tr>
<tr>
<td>Midwest</td>
<td>4.8%</td>
</tr>
<tr>
<td>Northeast</td>
<td>4.3%</td>
</tr>
<tr>
<td>Northwest</td>
<td>3.2%</td>
</tr>
<tr>
<td>Southeast</td>
<td>2.2%</td>
</tr>
<tr>
<td>Southwest</td>
<td>0.5%</td>
</tr>
<tr>
<td>West</td>
<td>9.1%</td>
</tr>
<tr>
<td>Abroad*</td>
<td>9.1%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100%</td>
</tr>
</tbody>
</table>

*Abroad: China, Denmark, Germany, India, Japan, South Korea, Mexico, Morocco, Romania, Saudi Arabia, Spain, United Arab Emirates

EMPLOYMENT BY INDUSTRY

<table>
<thead>
<tr>
<th>Number</th>
<th>Industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>58</td>
<td>Manufacturing</td>
</tr>
<tr>
<td>44</td>
<td>Technology</td>
</tr>
<tr>
<td>31</td>
<td>Financial Services</td>
</tr>
<tr>
<td>21</td>
<td>Education</td>
</tr>
<tr>
<td>17</td>
<td>Services (Consulting, Construction)</td>
</tr>
<tr>
<td>5</td>
<td>Communications, Energy/Natural Resources</td>
</tr>
<tr>
<td>4</td>
<td>Government</td>
</tr>
<tr>
<td>2</td>
<td>Other</td>
</tr>
</tbody>
</table>

EMPLOYMENT BY INDUSTRY (With Manufacturing & Technology Breakdowns)

- Manufacturing: 31%
  - Pharma: 28%
  - Computer Products (Hardware): 4%
  - Electronics/Robots: 14%
  - Consumer Products: 5%
  - Biomedical Products: 10%
- Technology: 23%
  - Internet Services: 18%
  - Online Information Provider: 5%
  - Software Products: 70%
  - Telecom: 7%
  - Interactive Entertainment Software: 2%
  - E-Commerce: 5%
- Financial Services: 17%
- Education: 11%
- Government: 17%
- Energy/Natural Resources: 3%
- Other: 7%

Aerospace: 22%
EMPLOYMENT BY JOB TYPE

<table>
<thead>
<tr>
<th>Number</th>
<th>Job Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>69</td>
<td>Information Technology</td>
</tr>
<tr>
<td>66</td>
<td>Engineering</td>
</tr>
<tr>
<td>18</td>
<td>Scientific Research</td>
</tr>
<tr>
<td>13</td>
<td>Consulting</td>
</tr>
<tr>
<td>10</td>
<td>Finance</td>
</tr>
<tr>
<td>5</td>
<td>Management</td>
</tr>
<tr>
<td>3</td>
<td>Marketing</td>
</tr>
<tr>
<td>3</td>
<td>Other</td>
</tr>
</tbody>
</table>

EMPLOYMENT BY JOB TYPE (With Engineering and Technology Breakdowns)

- **Information Technology**: 37%
- **Engineering**: 35%
- **Scientific Research**: 10%
- **Consulting**: 7%
- **Finance**: 5%
- **Management**: 3%
- **Marketing**: 1%
- **Other**: 2%
- **Construction**: 1%
- **Design**: 14%
- **Manufacturing / Production**: 17%
- **Project Management**: 14%
- **Research & Development**: 23%
- **Systems Analyst**: 10%
- **Web Designer & Developer**: 6%
- **Technology Analyst**: 15%
- **Technical Artist/Game Developer**: 1%
- **Program Management**: 4%
RANGE AND AVERAGE NUMBER OF JOB INTERVIEWS PER STUDENT

<table>
<thead>
<tr>
<th>Range</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-Campus Recruiting (OCR) Interviews</td>
<td>1 – 15</td>
</tr>
<tr>
<td>Interviews Resulting from Career Services Leads</td>
<td>1 – 50</td>
</tr>
<tr>
<td>(Career Day, Job Postings, PennLink)</td>
<td>1 – 100</td>
</tr>
<tr>
<td>Interviews on Their Own</td>
<td>1 – 75</td>
</tr>
<tr>
<td>All Interviews Combined</td>
<td>1 – 75</td>
</tr>
</tbody>
</table>

RANGE AND AVERAGE NUMBER OF JOB OFFERS PER STUDENT

<table>
<thead>
<tr>
<th>Range</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-Campus Recruiting Offers</td>
<td>1 – 3</td>
</tr>
<tr>
<td>Career Services Offers (Career Day, Email Postings, PennLink)</td>
<td>1 – 3</td>
</tr>
<tr>
<td>Offers from Sources other than OCR and Career Services</td>
<td>1 – 3</td>
</tr>
<tr>
<td>All Offers Combined</td>
<td>1 – 4</td>
</tr>
</tbody>
</table>

AVERAGE SALARY BY YEAR

The average salary for graduates in full-time positions and those continuing current employment was $67,477, which is an increase of 6.8% from the previous year.

The range of salaries reported for 2010 was $30,000 - $118,000.

LIST OF EMPLOYERS BY MAJOR

**Bioengineering**
- Accenture, New York, NY, Business Analyst
- Epic, Verona, WI, Technical Services
- Frankel Group, New York City, NY, Analyst
- Gentis, Inc., Wayne, PA, Project Engineer
- Merck, West Point, PA, Staff Engineer
- Olympus America, Center Valley, PA, Olympus Fellow
- PricewaterhouseCoopers, New York, NY, Health Industries Associate
- Strategic Research Insights, Plainsboro, NJ, Associate
- University of Pennsylvania, Philadelphia, PA, Graduate Researcher
- University of Pennsylvania, Philadelphia, PA, Research Specialist
- University of Pennsylvania, Philadelphia, PA, Research Specialist

**Biotechnology**
- Amgen, Location Not Provided, Senior Research Associate
- Celgene Cellular Therapeutics, Warren, NJ, Bioengineering Associate II
- Children's Hospital of Philadelphia, Philadelphia, PA, Research Assistant
- CMC ICOS Biologics, Inc., Seattle, WA, Development Associate IV
- ConAgra Foods, Inc., Location Not Provided, Quality Team Leader
- DuPont, City Not Provided, PA, Associate Investigator
- Greephire, Philadelphia, PA, Vice President
- Huahai US, Inc., New York, NY, Associate
- Jubilant Biosys, Ltd., Bangalore, India, Executive - Project Management
- Medline Industries, Chicago, IL, QA Engineer II
- Merck, West Point, PA, Staff Engineer
- Merck, West Point, PA, Staff Engineer
- Monell Chemical Senses, Philadelphia, PA, Senior Research Technician
- Novasep Inc, Boothwyn, PA, Process Development Scientist
- Novo Nordisk, Copenhagen, Denmark, Graduate
- Pfizer, Pearl River, NY, Research Scientist
- Polaris Pharmaceuticals, San Diego, CA, Associate Scientist
Regeneron Pharmaceuticals, Tarrytown, NY, Research Associate II  
Shire Pharmaceuticals, Lexington, MA, Purification Technician II  
The Wistar Institute, Philadelphia, PA, Research Assistant  
The Wistar Institute, Philadelphia, PA, Research Assistant I  
The Wistar Institute, Philadelphia, PA, Research Associate  
The University of Pennsylvania School of Medicine, Philadelphia, PA, Research Assistant  
The University of Pennsylvania School of Medicine, Philadelphia, PA, Research Associate  
The University of Pennsylvania Veterinary School, Philadelphia, PA, Research Specialist  
The University of Pennsylvania, Dental Medicine, Philadelphia, PA, Research Specialist  
The University of Pennsylvania, Philadelphia, PA, Clinical Research Coordinator  
The University of Pennsylvania, Philadelphia, PA, Research Program Manager  
The University of Pennsylvania, Philadelphia, PA, Research Scientist  
Wistar Institute, Philadelphia, PA, Research Assistant II  
Xyntek, Yardley, PA, Engineer  

Chemical and Biomolecular Engineering  
BlackGold Biofuels, Philadelphia, PA, Cleantech Analyst  
Chemical Market Resources, City Not Provided, PA, Research Analyst  
Citigroup, New York, NY, Analyst  
Merck, Elkton, VA, United States, Staff Engineer  
Merck, West Point, PA, Senior Engineer  
Merck, West Point, PA, Staff Biochemical Engineer  

Computer & Information Technology  
AT&T, Piscataway, NJ, Associate Applications Developer  
Autonomy, Location Not Provided, System Engineer  
Bank of America Merrill Lynch, New York, NY, Server Side Java Developer  
Google, Mountain View, CA, Corporate Operations Engineer  
GSI Commerce, King of Prussia, PA, Software Engineer 1  
Organization Not Provided, Hanover, NH, Position Not Provided  
TechEmpower, El Segundo, CA, Programmer  
United States Marine Corps, Quantico, VA, Second Lieutenant  
The University of Pennsylvania, Philadelphia, PA, Programmer Analyst  
Zais Group, Red Bank, NJ, Programmer Analyst  

Computer and Information Science  
Amazon.com, Seattle, WA, Software Development Engineering  
Bank of America Merrill Lynch, New York, NY, Technology Analyst  
BlackRock, New York, NY, Analyst  
Bloomberg L.P., New York, NY, Financial Software Developer  
Bloomberg L.P., New York, NY, Financial Software Developer  
Citigroup, New York, NY, Software Developer  
Comcast Interactive Media, Philadelphia, PA, Software Engineer  
Currenex, Redwood City, CA, Java Developer  
Deutsche Bank, New York City, NY, Analyst  
Ennovance Capital, Philadelphia, PA, Analyst  
Epic, Madison, WI, Software Developer  
Epic, Madison, WI, Software Developer  
Epic, Madison, WI, United States, Software Development  
Epic, Verona, WI, United States, Software Developer  
EuroConsult, Inc., New York, NY, Analyst  
Eze Castle Software, Boston, MA, Junior Software Developers  
Goldman Sachs, New York, NY, Technology Analyst  
Goldman Sachs, New York, NY, Technology Analyst  
Google, New York, NY, Software Engineer  
Google, Palo Alto, CA, United States, Associate Product Manager  
Keas, San Francisco, CA, Software Engineer  
Lockheed Martin, Moorestown, NJ, Engineering Leadership Development Program  
Merrill Lynch, Hopewell, NJ, Position Not Provided  

Microsoft, Cambridge, MA, Program Manager
Microsoft, Redmond, WA, Software Development Engineer
Microsoft, Seattle, WA, Software Development Engineer
Morgan Stanley Smith Barney, New York, NY, Technology Analyst
Organization Not Provided, Location Not Provided, Position Not Provided
PTT LLC, Mahwah, NJ, Position Not Provided
Qualcomm, San Diego, CA, Software Engineer
Samsung Techwin, Seoul, South Korea, Researcher
Synesort Inc, Woodcliff Lake, NJ, Associate Software Engineer
TradeAds Interactive, Bucharest, Romania, Programmer
United Nations, New York, NY, Intern
University of Pennsylvania, Philadelphia, PA, Sr. IT Project Leader
Zais Group, Red Bank, NJ, Programmer Analyst

Computer Graphics and Game Technology
Adobe Systems, San Jose, CA, Software Engineer
Barclays Capital, New York, NY, Analyst - Technology
BorisFX, Boston, MA, Staff Engineer - Graphics Software
Chi Systems Inc, Fort Washington, PA, Software Engineer II
IPKeys, Eatontown, NJ, Senior Software Engineer
Max Planck Institute for Informatics, Saarbrücken, Germany, Research Engineer
Virtualplant Productions, Philadelphia, PA, Content Developer
Walt Disney Animation Studios, Burbank, CA, Assistant Technical Director

Electrical Engineering
Barclays Capital, New York, NY, Analyst
Barclays Capital, New York, NY, Analyst
Barclays Capital, New York, NY, Intern
Bashpole Group, PA, Mechanical Design Engineer
Bloomberg L.P., New York, NY, Software Developer
Boston Consulting Group, Tokyo, Japan, Consultant
China Foundry Association, Beijing, People's Republic of China, Position Not Provided
Citigroup, New York, NY, Quantitative Analyst
Cognizant, Teaneck, NJ, United States, Programmer Analyst
Invite Media, New York, NY, Account Manager
Lightwire, Inc., Whitehall, PA, Analog/Mixed Signal Design Engineer
Lockheed Martin, Moorestown, NJ, Member Engineering Staff
Lockheed Martin, Moorestown, NJ, Software and Electronics Engineer
LSI Corporation, Allentown, PA, ASIC Design Engineering
Lutron, Coopersburg, PA, Project Electrical Engineer
Merck, West Point, PA, Senior Engineer
Short Term Equity Trading, Philadelphia, PA, Trader
The Boeing Company, Ridley Park, PA, Design and Analysis Engineer
University of Pennsylvania, Philadelphia, PA, Data Analyst
University of Pennsylvania, Philadelphia, PA, United States, Programming Analyst
ZL Technologies, San Jose, CA, Engineer
ZL Technologies, San Jose, CA, Engineer

Integrated Product Design
China Minsheng Bank Corp, Hong Kong, People's Republic of China, Analyst
HDP / Salco Maroc - Smart Systems, Rabat, Morocco, Directing Manager / General Manager
Jump Associates, San Mateo, CA, Extern
PowerFlower Solar, Cherry Hill, NJ, CEO
Smart Design, New York, NY, Design Engineer Intern
Tecnipozo, Mexico City, Mexico, General Manager
Tegrant Corporation, Montgomeryville, PA, Design Engineer
Materials Science and Engineering
ExxonMobil Research and Engineering, Fairfax, VA, Advanced Engineer
KLA-Tencor, Hopewell Junction, NY, Application Engineer

Mechanical Engineering & Applied Mechanics
Beautyman Alvstad, LLP, Flourtown, PA, Consultant
BG Group, City Not Provided, PA, Graduate Trainee Engineer
General Atomics Aeronautical Systems, Inc., San Diego, CA, CFD Engineer II
IMDEA (Madrid Institute for Advanced Studies of Materials), Madrid, Spain, Associate Researcher
Merck, West Point, PA, United States, Associate Automation Engineer
Morgan Stanley Asia Ltd., Hong Kong, People's Republic of China, Analyst
NAVSEA Carderock Division, Washington, DC, Mechanical Engineer
Oliver Wyman, New York, NY, Consultant
Zakum Development Company (ZADCO), Abu Dhabi, United Arab Emirates, Mechanical Engineer - Static

Robotics
Bloomberg L.P., New York, NY, Financial Software Developer
Organization Not Provided, Austin, TX, Position Not Provided
People Power, San Francisco, CA, QA Engineer
Robotic Research LLC, Gaithersburg, MD, Engineer
Schmid & Co., Inc. Consulting Ecologists, City Not Provided, PA, GIS Cartography and Graphic Design
University of Pennsylvania, Philadelphia, PA, TA & Shop Worker
University of Pennsylvania, Philadelphia, PA, United States, Software Developer
Virid Capital, New York, NY, Director
W.L.Gore and Associates, Sunnyvale, CA, Engineer

Systems Engineering
Bain & Company, Beijing, People's Republic of China, Associate Consultant
Booz Allen Hamilton, Herndon, VA, United States, Consultant (Level 2)
Ford Motor Company, Dearborn, MI, United States, Engineer
General Electric, New York, NY, Manager
Lockheed Martin, Moorestown, NJ, Associate Member of Engineering Staff
Lockheed Martin, Moorestown, NJ, Member Engineering Staff
Lockheed Martin, Moorestown, NJ, Member Engineering Staff
Lockheed Martin, Moorestown, NJ, Program Manager
Lockheed Martin, Moorestown, NJ, Senior Program Auditor
Lockheed Martin, Moorestown, NJ, Systems Engineer
Lockheed Martin, Moorestown, NJ, Systems Engineer
Pine River Capital Management, Beijing, People's Republic of China, Quantitative Analyst
Towers Watson, New York, NY, Data Analyst
UBS, Stamford, CT, Analyst

Telecommunications and Networking
Bank of America, Hopewell, NJ, Technology Analyst
Bank of America, Hopewell, NJ, Technology Analyst
Barclays Capital, Jersey City, NJ, Technology Analyst
Bloomberg L.P., New York, NY, Financial Software Developer
Bloomberg L.P., New York, NY, Financial Software Developer
EchoStar Corporation, Denver, CO, Program Manager
Eze Castle Software, Boston, MA, Systems Consultant
Gemini Systems LLC, New York, NY, Associate Consultant
HP, Cupertino, CA, SWQA Engineer
Lockheed Martin, Moorestown, NJ, Member of Engineering Staff
Meridian Technologies, MI, Network & IT Support Engineer
Microsoft, Seattle, WA, Program Manager
Mobile Communication Corporation, Beijing, People's Republic of China, Industry Solution and Support Manager
NextDocs, King of Prussia, PA, Software Test Engineer
NextDocs, Philadelphia, PA, Software Engineer
Nomura Securities, New York, NY, Software Engineer
Saudi Aramco, Dhahran, Saudi Arabia, Engineer
SunGard, Wayne, PA, United States, IT Analyst

**Telecommunications and Networking (continued)**
Terra Technology, New York, NY, Consultant
The Vanguard Group, Malvern, PA, Telecommunications Analyst
T-Mobile, Seattle, WA, Engineer 2 System Design & Strategy
UBS, Stamford, CT, United States, IT Analyst
Vibes Media, Chicago, IL, Software Developer
WANDL, Edison, NJ, System Engineer
Xyntek, Yardley, PA, Systems Solution Engineer

**SECTION 2 – ANALYSIS OF GRADUATE STUDY RESPONDENTS**

**LIST OF GRADUATE PROGRAMS BY MAJOR**

**Bioengineering**
University of Pennsylvania School of Medicine, Medicine, MD
University of Southern California, Pharmaceutical Economics & Policy, PhD

**Biotechnology**
Columbia University, Biochemistry & Molecular Biophysics, PhD
Graduate School Not Provided
Graduate School Not Provided

**Chemical and Biomolecular Engineering**
Lehigh University, Chemical Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD
University of Pennsylvania, Chemical & Biomolecular Engineering, PhD

**Computer & Information Technology**
Massachusetts Institute of Technology - Sloan School, Operations/Entrepreneurship, MBA
University of Pennsylvania, Genomics & Computational Biology, PhD
Virginia Tech, Mathematics, PhD

**Computer and Information Science**
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Earth and Environmental Science, PhD
Computer Graphics and Game Technology
University of Pennsylvania, Computer & Information Science, PhD

Electrical Engineering
Cornell University, Electrical Engineering, PhD
University of Pennsylvania, Electrical & Systems Engineering, PhD
University of Pennsylvania, Electrical & Systems Engineering, PhD
University of Pennsylvania, Electrical & Systems Engineering, PhD
University of Pennsylvania, Electrical & Systems Engineering, PhD
University of Pennsylvania, Electrical & Systems Engineering, PhD
University of Pennsylvania, Electrical & Systems Engineering, PhD
University of Pennsylvania, Electrical & Systems Engineering, PhD

Materials Science and Engineering
Drexel University, Materials Science and Engineering, PhD
Princeton University, Electrical Engineering, PhD
University of California - Irvine, Chemical Engineering & Materials Science, PhD
University of Illinois - Urbana Champaign, Management Science & Operations Management, PhD
University of Pennsylvania, Materials Science & Engineering, PhD
University of Pennsylvania, Materials Science & Engineering, PhD
University of Pennsylvania, Materials Science and Engineering, PhD
University of Pennsylvania, Materials Science, PhD

Mechanical Engineering & Applied Mechanics
Cumhuriyet University, Mechanical Engineering, PhD
Johns Hopkins University, Mechanical Engineering / Robotics, PhD
University of Pennsylvania, Mechanical Engineering & Applied Mechanics, PhD
University of Pennsylvania, Mechanical Engineering & Applied Mechanics, PhD
University of Pennsylvania, Mechanical Engineering & Applied Mechanics, PhD
University of Pennsylvania, Mechanical Engineering & Applied Mechanics, PhD
University of Pennsylvania, Mechanical Engineering & Applied Mechanics, PhD
University of Pennsylvania, Mechanical Engineering & Applied Mechanics, PhD
University of Pennsylvania, Mechanical Engineering & Applied Mechanics, PhD

Robotics
UCLA, Computer Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Computer & Information Science, PhD
University of Pennsylvania, Electrical & Systems Engineering, PhD

Systems Engineering
New York University, Leonard N. Stern School of Business, Operations Management, PhD
University of Oxford, Business, MBA
University of Pennsylvania, Electrical & Systems Engineering, PhD

Telecommunications and Networking
Princeton University, Computer Science, PhD
University of Iowa, Management Science, PhD