

CAREER SERVICES

University of Pennsylvania

School of Engineering & Applied Science

Undergraduate Career Plans Survey Report 2003-2004

Overview

Each year Career Services surveys the SEAS graduating class to gather information about their post-graduation plans. This report summarizes the responses from December 2003, May and August 2004 SEAS Bachelor's degree recipients. The school awarded 340 undergraduate degrees. Career Services received 303 responses, which represents an 89.1% response rate.

Nearly 70% of the survey respondents were employed full time (including military service and self employment). A rebound in the economy was reflected in the 8% increase over 2003 of those employed full time. Over 15% were pursuing graduate work and of those 61% enrolled in engineering programs. There was a 7.4% decrease from last year's class in the number of students entering graduate study. The percentage of those still seeking employment was 10.9% down from 13.7% last year. The overall average salary of the employed respondents was \$54,688.

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 March 2005

Post Graduation Plans

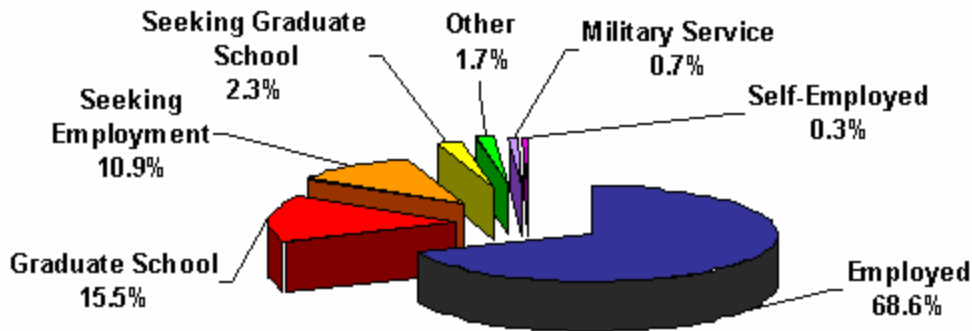


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METHODOLOGY

Engineering students graduating with either a BAS or BSE degree in December 2003, May and August 2004 responded to several email requests to complete the Career Plans Survey on line between April and June 2004. A follow up survey was mailed in November to those who had not responded to earlier requests. In December, phone interviews were conducted with those graduates who previously indicated they were still seeking employment.

SECTION 1 - RESPONDENTS

Percent Response by Year

<u>Year</u>	<u>Degrees Awarded</u>	<u>Surveys Returned</u>	<u>Percent Response %</u>
2004	340	303	89.11%
2003	355	284	80.00%
2002	398	327	82.16%
2001	302	295	97.68%
2000	339	237	69.91%

SECTION 2 - PURSUITS

Pursuits Upon Graduation

<u>Plan</u>	<u>Number</u>	<u>2003-2004%</u>	<u>2002-2003%</u>	<u>2001-2002%</u>
Full-time Employment	208	68.6	59.8	63.0
Self-Employed	1	0.3	1.4	1.6
Attending Full-time Graduate School	47	15.5	22.9	22.3
Seeking Full-time Employment	33	10.9	13.7	11.0
Seeking Graduate School Admission	7	2.3	1.4	1.2
Military Service	2	0.7	0.4	0.9
Other	5	1.7	0.4	0.0
TOTAL:	303	100.0	100.0	100.0

SECTION 3 - ANALYSIS OF EMPLOYED RESPONDENTS

Employers with the Most Offers Accepted

Number Accepted	Company/Organization
10	Microsoft
9	Accenture, American Management Systems, Merrill Lynch, University of Pennsylvania
7	Citigroup
6	Goldman Sachs, Morgan Stanley
5	IBM, Lockheed Martin
4	JPMorgan Chase, McKinsey, UBS Investment Bank
3	AQR Capital, CIBC World Markets, Credit Suisse First Boston, Mercer Oliver Wyman
2	Banc of America Securities, Boston Consulting Group, Constellation Power Source, Deutsche Bank, General Motors, Global Prior Art, GoldTier Technologies, Lehman Brothers, MIT Lincoln Laboratory, Naval Surface Warfare Center, TargetRx

Geographic Distribution of Jobs

<u>Area</u>	<u>Number</u>	<u>Percent %</u>
United States		
Northeast	17	8.7
Mid-Atlantic	121	61.7
Southeast	14	7.1
Midwest	5	2.6
West	14	7.1
Southwest	2	1.0
Northwest	11	5.6
Abroad	12	6.2
Total:	196	100%

Date Received Offer

147 graduates reported the date they received the offer for the position they accepted. Over 86% received their offer prior to graduation.

<u>Date Received Offer</u>	<u>Percent %</u>
June – August 2003	4.1
September – December 2003	42.2
January – March 2004	25.8
April – May 2004	14.3
June – September 2004	5.4
October – December 2004	8.2
Total:	100%

Range and Average Number of Interviews Per Student

	<u>Range</u>	<u>Average</u>
On-Campus Recruiting Interviews	1-75	9.5
Interviews Resulting from Career Services Leads	1-8	1.9
Interviews on Their Own	1-20	2.4

Range and Average Number of Job Offers Received Per Student

	<u>Range</u>	<u>Average</u>
On-Campus Recruiting Offers	1-8	2.3
Career Services Offers (Career Day, Resume Book, PennLink)	0-1	1.0
Offers from sources other than OCRS and Career Services	1-3	1.3
All Offers Combined	1-8	2.2

How Full-time Employed Respondents Received Their Job Offers

	<u>Number</u>	<u>Percent %</u>
Through On-Campus Recruiting and Career Services	102	65*
Previous Employer	20	13**
On Their Own	36	22
Total:	158	100%

*An increase of over 8% from 2003.

**Of those indicating employment from a previous employer, 43% accepted an offer following an internship they had received by contact through Career Services.

Average Starting Salary by Year

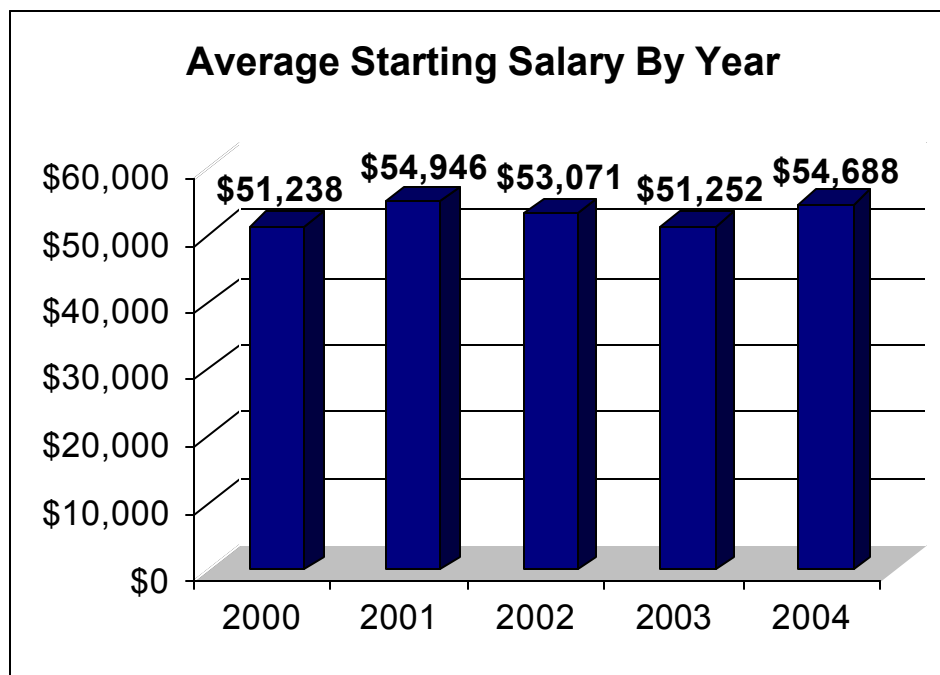
72% of the students who accepted full time employment reported their salaries.

<u>Year</u>	<u>Average Salary</u>	<u>% Change from Previous Year</u>
2004	\$54,688	6.7
2003	\$51,252	-3.4
2002	\$53,071	-3.4
2001	\$54,946	7.2
2000	\$51,238	12.6

The salary range for 2004 was \$24,500 - \$85,000

Average Bonus Figures

Sign-on Bonus	\$5,788 (based on 80 responses)
Annual Bonus (Estimated)	\$12,281 (based on 64 responses)



Average Salary by Major

<u>Major</u>	<u>Surveys w/ Salaries</u>	<u>Average</u>	<u>Range</u>
Applied Science			
General	0		
Biomed. Sci.	1	*	*
Comp. & Cog. Sci.	1	*	*
Comp. Sci.	6	\$61,500	\$55,000 – 75,000
Digital Media Design	0		

Average Salary by Major (continued)

Major	Surveys w/ Salaries	Average	Range
Bioengineering	13	\$48,423	\$24,500 – 59,000
Chemical & Biomolecular Eng.	4	\$55,700	\$52,800 – 58,000
Civil Engineering	4	\$49,450	\$45,000 – 54,000
Computer & Telecommunications Eng.	14	\$58,793	\$42,500 – 80,000
Computer Science & Engineering	45	\$57,176	\$36,000 – 74,400
Digital Media Design	2	\$52,250	
Electrical Engineering	12	\$55,917	\$42,000 – 85,000
Individualized	15	\$55,367	\$39,500 – 80,000
Materials Science & Eng.	1	*	*
Mech. Eng. & Appl. Mech.	10	\$49,154	\$40,000 – 60,000
Systems Science & Eng.	24	\$52,083	\$30,000 – 50,000
SEAS – Single Degree	84	\$53,823	\$24,500 – 80,000
SEAS/CAS – Dual Degree**	15	\$52,000	\$36,000 – 58,000
SEAS/WH – Dual Degree**	47	\$56,500	\$30,000 – 85,000
SEAS/SEAS – Dual Degree**	6	\$59,333	\$55,000 – 74,000

* Single salaries not reported

** Counted in both major and dual degree categories

Average Salary By Sex

Male Average Salary (excluding SEAS/WH students)	\$54,430 (based on 76 responses)
Female Average Salary (excluding SEAS/WH students)	\$52,429 (based on 29 responses)
Male SEAS/WH Average Salary	\$57,351 (based on 37 responses)
Female SEAS/WH Average Salary	\$53,350 (based on 10 responses)

Average Salary by Job Type

Job Type (Surveys with Salaries)	Average Salary	Range
Consulting		
Management/Strategy (15)	\$52,333	\$50,000 – 55,000
Research (4)	\$48,500	\$47,000 – 50,000
Technical/Information Systems (23)	\$52,065	\$48,000 – 59,000
Education		
Teaching (2)	\$37,750	-----
Energy/Environment		
Research (2)	\$57,500	-----
Engineering		
Design (13)	\$51,026	\$36,000 – 68,000
Manufacturing/Production (3)	\$53,000	\$49,000 – 58,000
Project Management (4)	\$46,250	\$40,000 – 55,000
Quality Assurance (1)	*	*
Research & Development (8)	\$57,125	\$48,000 – 74,400
Testing (2)	\$52,500	-----

Average Salary by Job Type (continued)

Job Type (Surveys with Salaries)	Average Salary	Range
Finance – Commercial Banking		
Investment Analysis (1)	*	*
Finance – Corporate		
Financial Planning & Analysis (1)	*	*
Finance – Investment Analysis		
Capital/Money Markets Analyst (4)	\$61,250	\$55,000 – 80,000
Mergers & Acquisitions (2)	\$55,000	-----
Fin. Analyst (Generalist) (31)	\$57,984	\$42,500 – 85,000
Finance – Management & Marketing		
Investment Management/Counsel (2)	\$67,500	-----
Government		
Military Officer (1)	*	*
Information Services		
Applications Programming (7)	\$52,857	\$45,000 – 55,000
Database Management (1)	*	*
Software Design/Develop. (17)	\$66,088	\$50,000 – 74,000
Systems Programming (3)	\$52,000	\$40,000 – 58,000
Technical Training (1)	*	*
Insurance		
Risk (1)	*	*
Marketing		
Marketing Analysis (1)	*	*
Scientific Research		
Biomedical (2)	\$37,750	-----

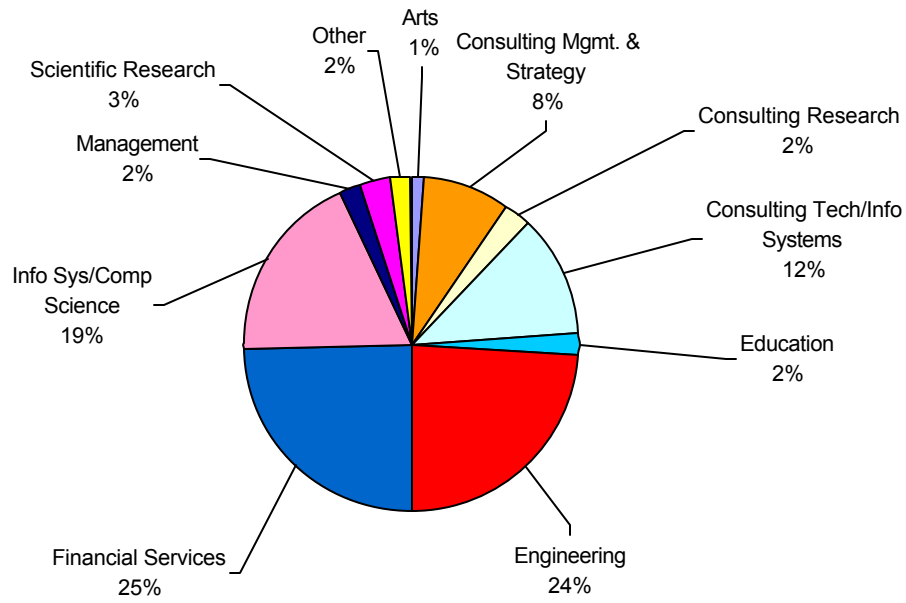
*Single salaries not reported

Average Salary by Industry

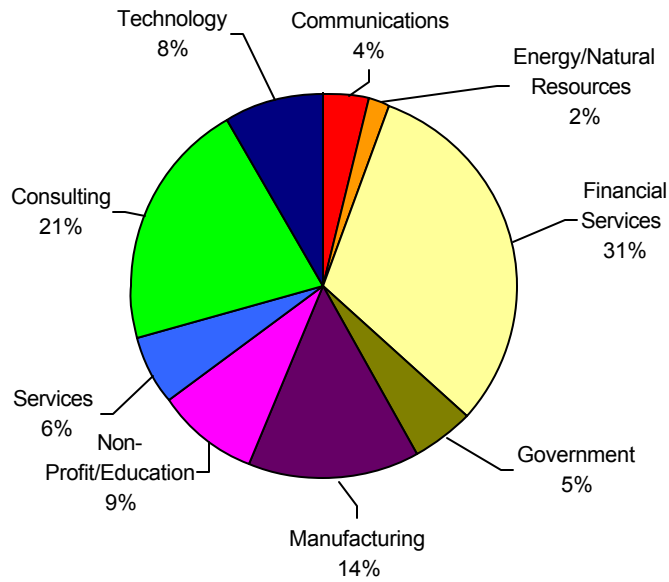
Industry	Number of Respondents	Average Salary	Range
Communications			
Advertising/Public Relations	1	*	*
Radio/TV/Cable	1	*	*
Energy/Natural Resources			
Energy Products	2	\$57,500	-----
Petroleum	2	\$55,400	-----
Financial Services			
Insurance	1	*	*
Investment Banking	47	\$56,500	\$42,500 – 85,000
Investment Mgmt. /Counsel	4	\$76,250	\$75,000 – 80,000
Government			
U.S. Executive Branch	6	\$55,500	\$45,000 – 74,400
Non-U.S. Government Service	1	*	*
Manufacturing			
Aerospace	6	\$56,507	\$50,544 – 68,000
Automotive	3	\$50,333	\$49,000 – 51,000
Biomedical Products	1	*	*
Chemicals/Gases	1	*	*
Computer Products (hardware)	5	\$50,200	\$49,000 – 54,000
Consumer Products	1	*	*
Other	1	*	*
Paper/Wood Products	1	*	*
Pharmaceuticals	1	*	*
Non-Profit/Education			
Elementary/Secondary School	2	\$37,750	-----
Higher Education/Sci. Research	4	\$40,125	\$24,500 – 55,000
Public Interest	2	\$48,000	-----
Services			
Construction	2	\$40,500	-----
Consulting	39	\$51,649	\$40,000 – 59,000
Design	2	\$54,500	-----
Hotel/Restaurant	1	*	*
Technology			
E-Commerce	1	*	*
Software Products	14	\$67,429	\$50,000 – 74,000

*Single salaries not reported

All Employed Respondents by Job Type
Includes Surveys With & Without Salaries



All Employed Respondents by Industry
Includes Surveys With and Without Salaries



Employers Reported by Major

Applied Science Biomedical Science

Europlay Capital Advisors, Encino, CA; Title Not Reported
Morgan Stanley, New York, NY; Analyst

Applied Science Computer & Cognitive Science

Credit Suisse First Boston, New York, NY; Analyst
Hawaii Medical Services Association, Honolulu, HI; Title Not Reported
University of Pennsylvania, Philadelphia, PA; Laboratory Technician
University of Pennsylvania School of Medicine, Philadelphia, PA; Research Assistant

Applied Science Computer Science

AQR Capital, Greenwich, CT; Analyst
Appian; Consultant
Bain & Company, New York, NY; Associate Consultant
Citigroup, Hong Kong, People's Republic of China; Financial Analyst
Credit Suisse First Boston, New York, NY; Analyst
Microsoft, Redmond, WA; Software Engineer
TNS Media Intelligence, West Chester, PA; Software Programmer
UBS Investment Bank, Stamford, CT; Developer

Applied Science Digital Media Design

Kodak; Title Not Reported

Bioengineering

Accenture, Philadelphia, PA; Associate Consultant
Accenture, Philadelphia, PA; Analyst
Accenture, New York, NY; Analyst
Agency of Science, Technology and Research, Singapore, Republic of Singapore; Title Not Reported
AT Kearney, New York, NY; Business Analyst
Becton Dickinson, Franklin Lakes, NJ; Engineer
Cesar Chavez School for Public Policy, Washington, DC; Middle School Math/Science Teacher
Deutsche Bank, Hong Kong, People's Republic of China; Title Not Reported
Global Prior Art, Boston, MA; Associate
KPMG, New York, NY; Title Not Reported
L'Oreal, Clark, NJ; Junior Chemist
Mercer Oliver Wyman, New York, NY; Consultant
Monitor Group, Cambridge, MA; Consultant
TargetRx, Horsham, PA; Research and Operations Associate
The Taft School, Watertown, CT; Teaching Fellow
University of Pennsylvania, Philadelphia, PA; Research Technician
University of Pennsylvania Center for Studies of Addiction, Philadelphia, PA; Psychology Technician

Chemical & Biomolecular Engineering

Bristol Myers Squibb, New Brunswick, NJ; Assistant Research Scientist
ExxonMobil Research & Engineering, Fairfax, VA; Process Engineer
National Institutes of Health, Bethesda, MD; Researcher
Schlumberger Oilfield Services, Alice, TX; Field Engineer
Uniqema, New Castle, DE; Management Trainee

Civil Engineering Systems

Boston Consulting Group, Boston, MA; Associate
Fisher Development Associates, New York, NY; Manager & Construction Coordinator
Friends Rehabilitation Program, Philadelphia, PA; Project Manager
Helmark Steel Inc., Wilmington, DE; Project Engineer
Rodgers Consulting, Inc., Gaithersburg, MD; Engineer
VanClef Engineering Associates, Robbinsville, NJ; Engineer

Employers Reported by Major (continued)

Computer Science & Engineering

Accenture, Reston, VA; Analyst
Accenture New York, NY; Analyst
Accenture, Philadelphia, PA; Analyst
Advertising.com; Unix Systems Administrator
American Management Systems, Fairfax, VA; Consultant
American Management Systems, Fairfax, VA; Consultant
American Management Systems, Fairfax, VA; Associate
American Management Systems, Fairfax, VA; Associate
Bizrate.com, Los Angeles, CA; Programmer
Booz Allen Hamilton, Merrifield, VA; Consultant
CIBC World Markets, New York, NY; Investment Banking Analyst
Citigroup, New York, NY; Title Not Reported
Citigroup, New York, NY; Analyst
Consumers Union, Yonkers, NY; Senior Lab Technician
Evercore Partners, New York, NY; Analyst
Goldman Sachs, New York, NY; Analyst
Goldman Sachs, New York, NY; Technology Analyst
GoldTier Technologies, Mt Laurel, NJ; Software Engineer
GoldTier Technologies, Mt Laurel, NJ; Software Engineer
IBM, Boulder, CO; IT Technician
JPMorgan Chase, New York, NY; Analyst
JPMorgan Chase, New York, NY; Marketing Analyst
Lawrence Livermore National Lab, Livermore, CA; Computer Scientist
Lockheed Martin, King of Prussia, PA; Software Engineer
Lockheed Martin, King of Prussia, PA; Title Not Reported
Lockheed Martin, Moorestown, NJ; Title Not Reported
McKinsey, San Francisco, CA; Business Analyst
Merrill Lynch, New York, NY; Technology Analyst
Merrill Lynch, New York, NY; Technology Analyst
Merrill Lynch, Hopewell, NJ; Analyst
Merrill Lynch, Hopewell, NJ; Technology Analyst
Microsoft, Seattle, WA; Program Manager
Microsoft, Redmond, WA; Developer
Microsoft, Redmond, WA; Software Design Engineer
Microsoft, Redmond, WA; Title Not Reported
Microsoft, Redmond, WA; Title Not Reported
Microsoft, Seattle, WA; Software Developer Engineer
Microsoft, Redmond, WA; Program Manager
Microsoft, Redmond, WA; Software Design Engineer
MIT Lincoln Laboratory, Lexington, MA; Assistant Staff
Morgan Stanley, New York, NY; Analyst
Morgan Stanley, New York, NY; IT Analyst
Naval Postgraduate School, Monterey, CA; Research Associate
PI Worldwide, Wellesley, MA; Technical Services
Relevant Entertainment, New York, NY; Comedy Agent
SAP, Newtown Square, PA; Sr. SAP Support Consultant
Towers Perrin, Philadelphia, PA; Associate
UBS Investment Bank, Tokyo, Japan; Analyst
Universal Certificate Group LLC, New York, NY; Applications Development Programmer
University of Pennsylvania, Philadelphia, PA; Systems Programmer & Web Developer
University of Pennsylvania, Philadelphia, PA; Database Analyst / Programmer
Wharton School WCIT, Philadelphia, PA; IT Support Specialist

Computer & Telecommunications Engineering

Accenture, Philadelphia, PA; Analyst

Employers Reported by Major (continued)

Computer & Telecommunications Engineering (continued)

Aeronautical Radio of Thailand, Ltd, Bangkok, Thailand; Title Not Reported
American Management Systems, Fairfax, VA; IT Associate
American Management Systems, Fairfax, VA; Associate
AQR Capital, Greenwich, CT; Analyst
AQR Capital, Greenwich, CT; Financial Analyst
Columbia University, Palisades, NY; Systems Analyst Programmer
IBM, New York, NY; Associate Consultant
JPMorgan Chase, Wilmington, DE; Analyst
Lehman Brothers, New York, NY; Capital Markets Analyst
Mercer Oliver Wyman, New York, NY; Financial Consultant
MIT Lincoln Laboratory, Lexington, MA; Assistant
Morgan Stanley, New York, NY; Title Not Reported
Morgan Stanley, Hong Kong, People's Republic of China; Business Analyst
Silver Oak Solutions, King of Prussia, PA; Analyst
The Boeing Company, Seattle, WA; Engineer
The Systems Group, Hoboken, NJ; Title Not Reported

Digital Media Design

Advertising Agency, New York, NY; Title Not Reported
American Management Systems, Fairfax, VA; Consultant
Curious Pictures Corporation, New York, NY; Title Not Reported
Freelance, New York, NY; Position Not Reported
Teach for America or Peace Corps; Title Not Reported
Tritek Solutions, Boston, MA; Business & Programming Analyst

Electrical Engineering

Constellation Power Source, Baltimore, MD; Analyst
Deutsche Bank, New York, NY; Financial Analyst
Flack + Kurtz Inc., New York, NY; Designer
General Motors, Detroit, MI; Designing Engineer
Goldman Sachs Asia, Hong Kong, People's Republic of China; Analyst
IBM, New York, NY; Consultant
IBM, Philadelphia, PA; Associate Consultant
Insight Venture Partners, New York, NY; Analyst
Lehman Brothers, New York, NY; Structured Finance Analyst
Liberty City Cycle, Philadelphia, PA; Title Not Reported
Lockheed Martin; Title Not Reported
Merrill Lynch; Title Not Reported
Microsoft, Redmond, WA; Software Design Engineer
Motorola, Edison, NJ; Contractor
Navmar Applied Sciences Corporation, Warminster, PA; Electrical Engineer
Raytheon, Sudbury, MA; Electrical Engineer
Rio Royal Suites, Las Vegas, NV; Financial Analyst
U.S. Department of Defense, Portsmouth, NH; Electrical Engineer
University of Pennsylvania, Philadelphia, PA; Title Not Reported
US Army; Title Not Reported

Individualized Major

Banc of America Securities, New York, NY; Analyst
Banc of America Securities, New York, NY; Analyst
BNP Paribas, City Not Reported, State Not Reported; Investment Banking Analyst
CIBC World Markets, Los Angeles, CA; Analyst
Citadel Investment Group, Chicago, IL; Investment and Trading Analyst
Citigroup, New York, NY; Analyst
Citigroup, New York, NY; Analyst

Employers Reported by Major (continued)

Individualized Major (continued)

Deloitte Consulting, New York, NY; Business Analyst
Goldman Sachs (Japan) Limited, Tokyo, Japan; Product Controller
IBM, New York, NY; Associate Consultant
Independence Blue Cross, Philadelphia, PA; Corporate Strategic Analyst
JPMorgan Chase, New York, NY; Corporate Banking Design
JPMorgan Chase, New York, NY; Analyst Sales & Trading
McKinsey, Florham Park, NJ; Business Analyst
Mercer Oliver Wyman, New York, NY; Consultant
Merrill Lynch, New York, NY; Title Not Reported
Morgan Stanley, New York, NY; Analyst
Regan Campbell Ward, New York, NY; Title Not Reported
Teach For America, San Francisco, CA; Teacher

Materials Science & Engineering

BEM Systems, Chatham, NJ; Staff Engineer

Mechanical Engineering & Applied Mechanics

Accenture, Philadelphia, PA; Analyst
Clique Communications, Hopewell, NJ; Quality Assurance Engineer
Federal Mogul, Skokie, IL; Manufacturing Engineer
General Motors, Warren, MI; Engineer
Global Prior Art, Boston, MA; Associate
IDEO, Palo Alto, CA; Engineer
L-3 Communications, Philadelphia, PA; Title Not Reported
Lockheed Martin, Owego, NY; Mechanical Engineering Associate
Machine Shop, City Not Reported, WY; Title Not Reported
Naval Surface Warfare Center, Norco, CA; Mechanical Engineer
Naval Surface Warfare Center, Carderock Division, West Bethesda, MD; Mechanical Engineer
Phoenix, Princeton, NJ; Title Not Reported
Showmotion, Inc, Norwalk, CT; Automation Technician
Silk Line Boats, Pran Buri, Thailand; Title Not Reported
United Space Alliance, Cape Canaveral, FL; Engineer
Verizon; Engineer
Weyerhaeuser, Hazard, KY; Process and Control Engineer
Whiting Turner Construction Co., Bethesda, MD; Engineer

Systems Science & Engineering

Accenture, Philadelphia, PA; Analyst
American Management Systems, Fairfax, VA; Business Analyst
American Management Systems, Fairfax, VA; Associate
Bedrock Capital Management, New York, NY; Analyst
Boston Consulting Group, Chicago, IL; Associate
Charles River Associates, Washington, DC; Analyst
CIBC World Markets, New York, NY; Analyst
Citigroup, Hong Kong, People's Republic of China; Analyst
Citigroup, New York, NY; Analyst
Constellation Power Source, Baltimore, MD; Analyst
Credit Suisse First Boston, New York, NY; Analyst
DB Zwirn, Philadelphia, PA; Position Not Reported
Dresdner Kleinwort Wasserstein, New York, NY; M&A analyst
Goldman Sachs, New York, NY; Analyst
Goldman Sachs, New York, NY; Analyst
Guy Carpenter, Philadelphia, PA; Risk Analyst
Kirby Bates, Bala Cynwyd, PA; Research & Database Coordinator
McKinsey, Florham Park, NJ; Business Analyst

Employers Reported by Major (continued)

Systems Science & Engineering (continued)

McKinsey, New York, NY; Business Associate
Merrill Lynch, Hopewell, NJ; Senior Specialist
Merrill Lynch, New York, NY; Analyst
Merrill Lynch, New York, NY; Global Prime Broker
Morris & Ritchie Associates, New Castle, DE; Design Engineer/ CAD Drafter
Republic of Singapore Navy, Singapore, Republic of Singapore; Naval Officer
SG Barr Devlin, New York, NY; Financial Analyst
TargetRx, Horsham, PA; Operations Research Associate
U.S. Military, Title Not Reported
UBS Investment Bank, Stamford, CT; Global Project Manager
UBS Investment Bank, Los Angeles, CA; Analyst
University of Pennsylvania, Philadelphia, PA; Researcher

Liberal Arts & Techonology*

American Management Systems, Fairfax, VA; Associate
Banc of America Securities, New York, NY; Analyst
BEM Systems, Chatham, NJ; Staff Engineer
CIBC World Markets, New York, NY; Analyst
Citigroup, New York, NY; Analyst
Constellation Power Source, Baltimore, MD; Analyst
Deutsche Bank, Hong Kong, People's Republic of China; Position Not Reported
ExxonMobil Research & Engineering, Fairfax, VA; Process Engineer
Goldman Sachs, New York, NY; Analyst
IBM, New York, NY; Associate Consultant
JP Morgan Chase, New York, NY; Corporate Banking Design
Mercer Oliver Wyman, New York, NY; Consultant
Merrill Lynch, Hopewell, NJ; Technology Analyst
Morgan Stanley, New York, NY; Position Not Reported
TargetRx, Horsham, PA; Research and Operations Associate
UBS Investment Bank, Tokyo, Japan; Analyst
Wharton School WCIT, Philadelphia, PA; IT Support Specialist

Management and Technology*

Accenture, Philadelphia, PA; Analyst
American Management Systems, Fairfax, VA; Business Analyst
Appian, City Not Reported, State Not Reported; Consultant
AQR Capital, Greenwich, CT; Financial Analyst
AQR Capital, Greenwich, CT; Analyst
AQR Capital, Greenwich, CT; Analyst
Bain & Company, New York, NY; Associate Consultant
Banc of America Securities, New York, NY; Analyst
Becton Dickinson, Franklin Lakes, NJ; Engineer
Boston Consulting Group, Boston, MA; Associate
Boston Consulting Group, Chicago, IL; Associate
CIBC World Markets, New York, NY; Investment Banking Analyst
CIBC World Markets, Los Angeles, CA; Analyst
Citadel Investment Group, Chicago, IL; Investment and Trading Analyst
Citigroup, New York, NY; Position Not Reported
Citigroup, Hong Kong, People's Republic of China; Financial Analyst
Citigroup, New York, NY; Analyst
Citigroup, New York, NY; Analyst
Citigroup, New York, NY; Analyst
Constellation Power Source, Baltimore, MD; Analyst
Credit Suisse First Boston, New York, NY; Analyst
Deloitte Consulting, New York, NY; Business Analyst

Employers Reported by Major (continued)

Management and Technology (continued)

Deutsche Bank, New York, NY; Financial Analyst
 Dresdner Kleinwort Wasserstein, New York, NY; M&A analyst
 Evercore Partners, New York, NY; Analyst
 General Motors, Detroit, MI; Designing Engineer
 Goldman Sachs, New York, NY; Analyst
 Goldman Sachs, New York, NY; Analyst
 Goldman Sachs (Japan) Limited, Tokyo, Japan; Product Controller
 Goldman Sachs Asia, Hong Kong, People's Republic of China; Analyst
 Insight Venture Partners, New York, NY; Analyst
 JP Morgan Chase, Wilmington, DE; Analyst
 JP MorganChase, New York, NY; Analyst Sales & Trading
 McKinsey, San Francisco, CA; Business Analyst
 McKinsey, Florham Park, NJ; Business Analyst
 McKinsey, New York, NY; Business Associate
 Mercer Oliver Wyman, New York, NY; Consultant
 Mercer Oliver Wyman, New York, NY; Financial Consultant
 Merrill Lynch, Hopewell, NJ; Analyst
 Merrill Lynch, New York, NY; Technology Analyst
 Microsoft, Redmond, WA; Software Design Engineer
 Monitor Group, Cambridge, MA; Consultant
 Morgan Stanley, New York, NY; Analyst
 Morgan Stanley, New York, NY; Analyst
 Morgan Stanley, New York, NY; Analyst
 Republic of Singapore Navy, Singapore, Republic of Singapore; Naval Officer
 Rio Royal Suites, Las Vegas, NV; Financial Analyst
 SG Barr Devlin, New York, NY; Financial Analyst
 TargetRx, Horsham, PA; Operations Research Associate
 UBS Investment Bank, Stamford, CT; Global Project Manager
 UBS Investment Bank, Los Angeles, CA; Analyst
 Uniqema, New Castle, DE; Management Trainee
 University of Pennsylvania, Philadelphia, PA; Researcher

*All employers/positions are also listed by engineering major.

SECTION 4 - ANALYSIS OF GRADUATE STUDY RESPONDENTS

Fields of Full-time Graduate Study

<u>Field</u>	<u>2004</u>	<u>2003</u>	<u>2002</u>	<u>2001</u>
Engineering	55.2%	57.8%	45.7%	71.1%
Medicine/Dentistry	12.8%	17.2%	17.1%	13.2%
Business	6.4%	3.1%	10.0%	5.3%
Architecture	0.0%	3.1%	0.0%	2.6%
Biotechnology	6.4%	4.7%	0.0%	0.0%
Education	0.0%	3.1%	2.9%	2.6%
Law	6.4%	1.6%	12.9%	0.0%
Multimedia	0.0%	3.1%	5.7%	2.6%
Other	12.8%	6.3%	5.7%	2.6%

Degrees Being Pursued

MAJOR	MSE/MS/MB/ MA/MFA	PhD	MD/ DVM	JD	MBA
AS – Biomedical Science	1		2		
AS – Computer & Cognitive Science		1			
AS – Computer Science		1			
Bioengineering	5	5	4		
Chemical Engineering		1			
Civil Engineering	1				
Computer Science & Eng.	2	3		1	
Computer & Tel. Eng.	1				
Electrical Engineering	3	4	1		
Individualized Major	1				
Materials Science & Eng.		2			
Mechanical Eng. & Applied Mechanics	2	4		2	
TOTAL	16	21	7	3	

Graduate Schools Attended by Major

Applied Science in Biomedical Science

Northwestern University Medical School, MD; Medicine
 University of Pennsylvania, MB; Biotechnology
 University of Pennsylvania, MD; Medicine

Applied Science in Computer & Cognitive Science

Princeton University, Ph.D.; Computer Science

Applied Science Computer Science

Massachusetts Institute of Technology, Ph.D.; Neuroscience

Bioengineering

Boston University, Ph.D.; Biology/Genetics
 Columbia Medical School, MD; Medicine
 Weil Medical College of Cornell University, MD; Medicine
 Drexel University, MS; Biomedical Engineering
 Duke University, MS; Bio Materials
 Harvard Medical School, MD; Medicine
 St. George's University, DVM; Veterinary Science
 Stanford University, Ph.D.; Bioengineering
 University of Pennsylvania, MSE; Mechanical Engineering
 University of Pennsylvania, Ph.D.; Pharmacology
 University of Pennsylvania, MB; Biotechnology

Bioengineering (continued)

University of Pennsylvania, MB; Biotechnology
University of Rochester, Ph.D.; Bioengineering
University of Virginia, Ph.D.; Biomedical Engineering-Imaging

Chemical Biomolecular Engineering

Princeton University, Ph.D.; Chemical Engineering

Civil Engineering Systems

Princeton University, MSE; Civil Engineering

Computer Science & Engineering

Cardozo Law School, JD; Law
Carnegie Mellon University, Ph.D.; Computer Science
Columbia University, MS; Computer Science
New York University, Ph.D.; Applied Mathematics
University of Pennsylvania, MSE; Computer & Information Science
University of Washington, Ph.D.; Computer Science

Computer & Telecommunications Engineering

University of Pennsylvania, MSE; Electrical Engineering

Electrical Engineering

Drexel University, MS; Electrical Engineering
Stanford University, Ph.D.; Finance
University of California San Diego, Ph.D.; Electrical Engineering
University of Pennsylvania, Ph.D.; Computer & Information Science
University of Southern California, MFA; Film Production / Film Directing
University of Southern California, MS; Accounting
University of Texas Southwestern Medical School, MD; Medicine
Yale University, Ph.D.; Financial Economics

Individualized Major

International Space University, MSS; Space Studies

Materials Science & Engineering

University of California at Berkeley, Ph.D.; Materials Science and Engineering
University of Texas at Austin, Ph.D.; Engineering Science – Materials

Mechanical Engineering & Applied Mechanics

Carnegie Mellon University, Ph.D.; Robotics
Johns Hopkins University, Ph.D.; Biomechanics
Massachusetts Institute of Technology, MS; Aeronautics and Astronautics
Massachusetts Institute of Technology, MS; Mechanical Engineering
Temple University, JD; Law
University of Pennsylvania, Ph.D.; Mechanical Engineering
University of Southern California, Ph.D.; Computer Science
Vanderbilt University, JD; Law