



# University of Pennsylvania Career Services

## School of Engineering & Applied Science Ten Year Alumni Survey

### Classes of 1996 and 1997

27.9% of the graduates responded

Class	# of Respondents	% Males	% Females
Seniors	145	73.1%	26.9%

	Average Yearly Salary	Salary Range
Overall	\$125,457	\$40,000 – 500,000
Male	\$132,434	\$40,000 – 500,000
Female	\$104,175	\$94,500 – 114,000

#### Average Salary by Degree

Degree	Surveys with Salaries	Male Average	Female Average
BAS	18	\$146,800	\$96,167
BSE	63	\$127,750	\$105,588

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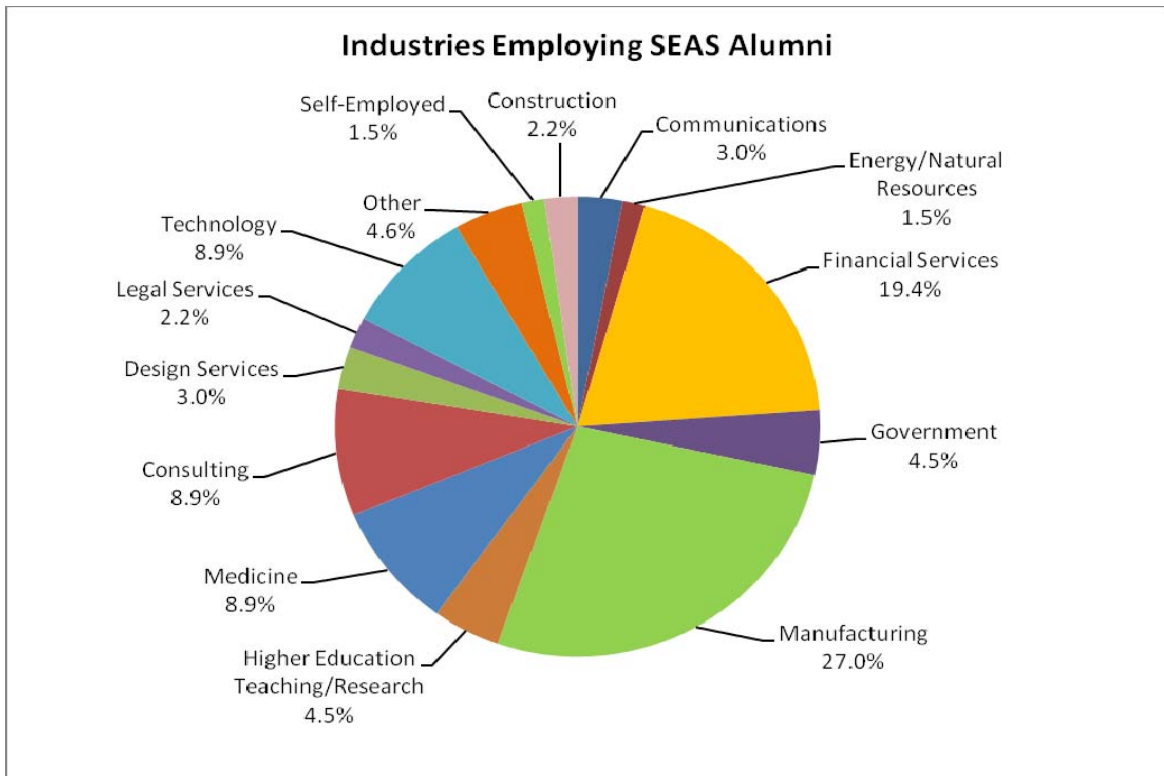
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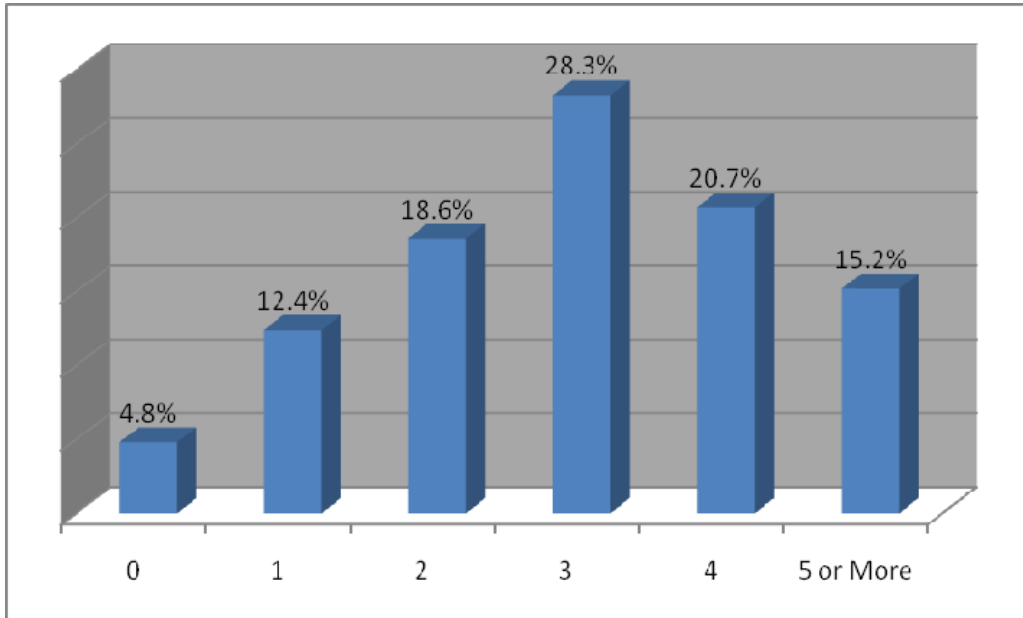
**Salary by Major**

Major	Average Salary	Range	
Applied Science			
Biomedical Science	\$167,500	\$87,500	\$280,000
Computer Science	\$121,000	\$45,000	\$200,000
Environmental Science	*		
Management and Technology	\$140,000	\$130,000	\$150,000
Systems Science	\$150,000	\$150,000	\$150,000
Bioengineering	\$128,846	\$40,000	\$500,000
Chemical Engineering	\$89,429	\$50,000	\$140,000
Civil Engineering	\$105,500	\$76,000	\$135,000
Computer Science & Engineering	\$144,700	\$75,000	\$325,000
Electrical Engineering	\$120,389	\$62,000	\$200,000
Materials Science & Engineering	\$110,000	\$60,000	\$132,000
Mechanical Eng. & Applied Mechanics	\$98,125	\$70,000	\$135,000
Systems Science & Engineering	\$140,400	\$65,000	\$200,000

\*Single salaries are not reported.



**Number of Jobs Held**



**Number of Employers Post Graduation**

Demographic	Average Number of Employers
Male	3.06
Female	3.34

**Hours Worked Per Week**

Demographic	Average # of Hours Worked Per Week
Male	53.92
Female	44.52

**Years in Current Position**

Demographic	Average Years in Current Position
Male	2.48
Female	3.02

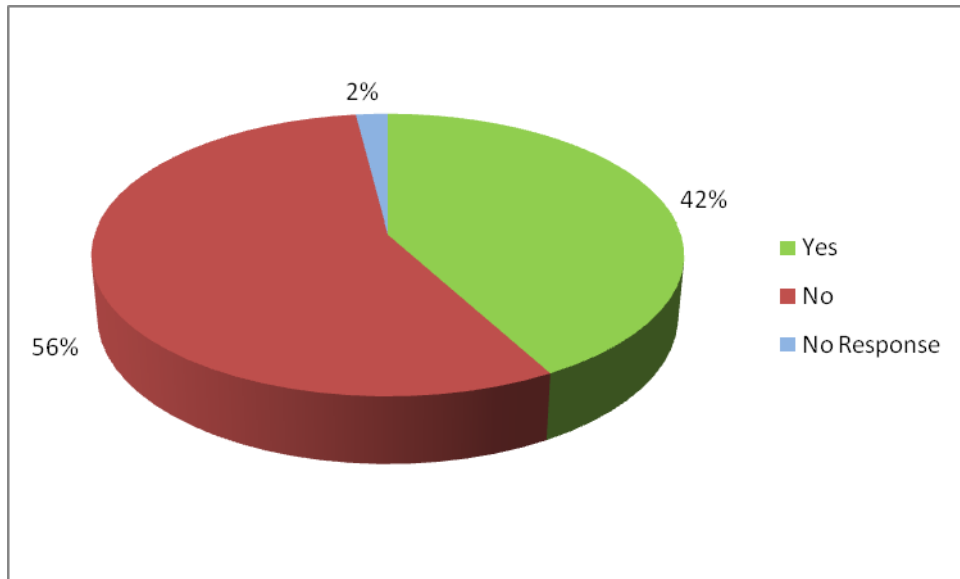
**Time Taken Off After Graduation**

Demographic	Yes	No	No Response
Male	21.4%	47.6%	4.1%
Female	17.9%	7.6%	1.4%

### Geographic Distribution of Jobs

<u>Area</u>	<u>Number</u>	<u>Percent</u>
United States		
Northeast	10	7.4 %
Mid-Atlantic	60	44.4 %
Southeast	20	14.8 %
Midwest	6	4.4 %
West	19	14.1 %
Northwest	1	0.7 %
Southwest	5	3.7 %
Abroad	14	10.4 %
Total:	135	100%

### Major Career Change



### Career Advice

Alumni were asked what advice they would give to students. The following is a sampling of their direct quotes:

- Do what you love, not what pays the most. In the end, you'll want to be spending your 40 to 50 to 80 or more hours per week doing something you enjoy.
- Be flexible. Government jobs, such as the patent office, offer excellent experience, and fast advancement.
- Be proactive in pursuing summer employment and try to find an internship/summer position in the field that you wish to work. You will learn about that field and determine if it is what you really want to do. It is also a great resume builder.
- Pursue internships in sophomore and junior year summers aggressively. Find mentors 5-10 years ahead of you for advice and career guidance. Do not be afraid to take professional risks. Find work with people you can learn a lot from. Learn to be a problem solver. It will help you in all aspects of life. Continue to learn throughout life – especially after school.
- Build relationships with your peers and professors and take advantage of all the services available to you through Penn. (And...participate in a study abroad program!)
- Definitely pursue a Masters degree if you want to stay in engineering.

### Career Advice (continued)

- Find and pursue opportunities in your own interests rather than what your peers all seem to be interested in.
- Learn for the sake of learning – don't always be so concerned about the next step. Enjoy where you are, and try to find your passion.
- Seek out summer internships at engineering firms, if a student intends to pursue a career in engineering, take the FE (EIT) exam prior to graduation. Don't sell your text books.
- My engineering degree from Penn was a great foundation for my future profession in medicine, and will be no matter which career you choose.
- Chase your dreams. Enjoy your job, profession and/or career. Be fiscally responsible and you will live a happier and fulfilled life.
- Take a wide range of classes and take advantage of all that Penn has to offer. Use your electives to explore classes in Arts & Sciences. Engineering classes prepared me well for grad school and my technical work, but a broad education has helped me tremendously in the non-technical aspects of work.
- Get comfortable with public speaking before graduation in order to make your professional life much easier!
- Make recruiting your senior job; take the GMAT summer of graduation; spend time talking to lots of people throughout your career to learn about new opportunities.

### Advanced Degrees Pursued

Major	Certificate Post Grad	Masters	MBA	MD/DO	JD	PhD	Multiple Graduate Degrees
Applied Science		1				1	
AS Biomedical Science			2	3			MD/PhD, MS/MD
AS Computer Science			1	1	1		MA/MBA
AS Environmental Science			1				
AS Management and Technology			6		1		MS/MBA
AS Systems			2				
Bioengineering		2	2	6	2	1	MSE/PhD(2), MPH/VMD, MD/PhD (2)
Chemical Engineering	1	2	2			1	MSE/MBA, MSE/MS
Civil Engineering		2	1				MA/PhD
Computer Science and Engineering	1		2			2	
Electrical Engineering		5	6		1		
Materials Science Engineering		2	2			2	
Mechanical Engineering and Applied Mechanics		3	3				MSE/MBA
Systems Engineering		4	4			1	MSE/MBA, MEM/MBA
Management and Technology*		1	12	1	1	2	MSE/MBA, MEM/MBA MA/MBA, MS/MBA MSE/MBA
Liberal Arts and Technology*		2	1	1			

\*Students graduating from dual-degree programs are counted in their individual engineering major as well as these fields.

- 65.5% of the respondents indicated they attained advanced degrees

## **Graduate Schools Attended by Undergraduate Major**

### **Applied Science**

Columbia University: MS  
Purdue University: PhD

### **Applied Science - Biomedical Science**

IESE: MBA  
McGill University: MD  
Medical College of Georgia: MD  
New York Medical College: MD  
Northwestern University: MBA  
Rush University: MD  
Stanford University: PhD  
University of Tennessee, Memphis: MD  
University of Western Ontario: MS

### **Applied Science – Computer Science**

Columbia University: MBA, MD  
George Washington Law School: JD  
New York University: MBA  
St. John's College: MA

### **Applied Science – Environmental Science**

Columbia University: MBA

### **Applied Science – Management and Technology**

Babson College: MA  
Columbia University: MBA (2), JD  
INSEAD: MBA (2)  
Harvard University: MBA  
Massachusetts Institute of Technology: MBA  
University of Pennsylvania: MBA

### **Applied Science - Systems**

Columbia University: MBA  
University of Pennsylvania: MBA

### **Bioengineering**

Albany Medical College: MD  
Baylor College of Medicine: MD, PhD  
Columbia University: MBA, PhD  
Duke University: MBA  
George Washington University: JD  
Johns Hopkins University: MD  
Massachusetts Institute of Technology: MS, PhD  
Medical College of Georgia: MD  
Texas College of Osteopathic Medicine: DO  
UMDNJ-Robert Wood Johnson Medical School: MD  
University of California, Davis: MSE  
University of Medicine and Dentistry New Jersey: MD, PhD  
University of Miami: MS  
University of Pennsylvania: MSE, MD, PhD  
University of San Francisco: JD  
University of Southern Florida: MD  
Yale University: MPH

**Chemical Engineering**

Arizona State University: PhD  
Baruck College: MBA  
Cornell University: Certificate  
Massachusetts Institute of Technology: MS, MSE, MBA  
New York University: MBA  
University of California, Berkeley: MS  
University of California, Santa Barbara: MS  
University of North Carolina, Chapel Hill: MS

**Civil Engineering**

Cornell University: MS  
George Washington University: MBA  
Oxford University: MS, PhD  
Stanford University: MSE

**Computer Science & Engineering**

Carnegie Mellon University: MBA  
DigiPen Institute of Technology: Certificate  
Harvard University, MBA, PhD  
University of Texas at Austin: PhD

**Electrical Engineering**

Carnegie Mellon University: MS  
Columbia University: MS  
George Washington University: MSE  
New York University: JD  
Northwestern University: MBA  
Rensselaer Polytechnic Institute: MSE  
University of Chicago: MBA  
University of Illinois: MS  
University of Maryland: MBA (2)  
University of Pennsylvania: MBA  
University of Southern California: MBA

**Materials Science and Engineering**

Case Western University: MBA  
Massachusetts Institute of Technology: PhD  
Northwestern University: PhD  
Princeton University: MSE  
Stanford University: MS  
University of California, Los Angeles: MBA

**Mechanical Engineering & Applied Mechanics**

Babson College: MBA  
Carnegie Mellon University: MSE  
Massachusetts Institute of Technology: MBA  
Northwestern University: MBA  
Stanford University: MSE  
University of Michigan: MSE  
University of Sydney: MS  
Villanova University: MBA

**Systems Science & Engineering**

Carnegie Mellon University: MBA  
Harvard University: MBA  
Massachusetts Institute of Technology: MS

**Systems Science & Engineering (continued)**

New York University: MBA  
Northwestern University: MEM, MBA  
Oxford University: MSC  
Pennsylvania State University: MSE  
University of Minnesota: MBA  
University of Pennsylvania: MSE (2), MBA (2)  
University of Vermont: PhD

**Liberal Arts and Technology**

Columbia University: MS  
Massachusetts Institute of Technology: MS  
New York University: MBA  
UMDNJ-Robert Wood Johnson Medical School: MD

**Management and Technology**

Columbia University: MBA (4), JD  
Duke University: MBA  
Harvard University: MBA (3), PhD  
INSEAD: MBA (2)  
Johns Hopkins University: MD  
Massachusetts Institute of Technology: MBA, MS  
New York University: MBA  
Northwestern University: MEM, MBA  
Oxford University: MSC  
Purdue University: PhD  
St. John's College: MA  
University of Maryland: MBA  
University of Pennsylvania: MSE (2), MBA (3)