

2010 Report
School of Engineering
With
Appendix for
Employment, Graduate Study, & Salary

**All percentages are rounded to the nearest full point; therefore, they may not add to 100%.*

Class of 2010 - School of Engineering

A total of 112 School of Engineering graduates were awarded baccalaureate degrees in August 2009, December 2009, and May 2010. 49 (44%) graduates responded to the survey. In an effort to increase the accuracy of our post-graduation activity data, The Career Center gathered information through immediate response surveys from the School of Business, the School of Engineering and the Center for Institutional Effectiveness, as well as data from the Admissions Clearinghouse, which resulted in our learning the post-graduation activities of a total of 70 (63%) School of Engineering graduates.

POST GRADUATION ACTIVITY

Further Study

A total of 17 (35%) of those who *responded* indicated that they attended graduate school immediately after graduation. However, through use of the Admissions Clearinghouse we learned that 32 (29%) of all respondents pursued further study since graduation.

Employment

51 (91%) respondents indicated they were either working *and/or* attending graduate school in the first year after graduation.

A total of 45 (80%) graduates indicated they are employed. Their employment status is as follows:

38 (68%) indicated they were employed full time

7 (13%) indicated they were employed part time

11 (20%) indicated they were employed and in graduate school.

6 (11%) indicated they were unemployed, but were attending graduate school.

4 (7%) indicated they were both unemployed and not attending graduate school.

Average Salaries

32 (84%) respondents who were employed full time provided salary information.

All salary information is calculated using the actual salary the respondent provided or the median of the salary range selected by the respondent. Respondents that indicated their salaries fell below \$19,999 or above \$80,000 and did not include a precise amount were excluded from the calculations.

The mean reported salary for the respondents that met the above criteria is \$51,328. This reflects a 6% decrease in comparison with the Class of 2009.

Fields of Employment

Students pursue occupations in a variety of career fields. 34 (89%) respondents that answered this item regarding employment fields are employed as follows:

2 (6%) in Business

1 (3%) in Computers

12 (35%) in Education

17 (50%) in Engineering

3 (9%) in Law

3 (9%) in Science

Time Span for Securing Employment

10 (30%) Engineering graduates secured employment prior to graduation.

21 (64%) respondents secured employment within the first three months after graduation.

26 (79%) respondents secured employment within the first six months after graduation.

31 (94%) respondents secured employment within 1 year after graduation.

Job Offers

Of the Engineering graduates employed who responded to this item, 15 (43%) of the 35 respondents employed full time received more than one job offer. This reflects a 2 percentage point increase in comparison with the Class of 2009. The number of employment offers received ranged from 1 to 4, with respondents receiving a mean of 1.60 offers of employment per graduate.

Satisfaction with Employment

Using a likert scale of 5 high to 1 low, Engineering graduates indicated the level of satisfaction they felt with their jobs. 28 (90%) of the respondents employed indicated an above average or high level of job satisfaction. The average satisfaction score for the respondents to this item was 4.35.

Current Employment's Ability to Meet Expectations

24 (83%) respondents indicated working in the field they expected.

23 (82%) respondents indicated working in the position type they expected.

Relationship between Academic Major and Position Obtained

Engineering graduates indicated the relationship between their academic major and the position they obtained since graduation. Of the 48 (98%) respondents to the Career Center survey:

31 (65%) respondents indicated a direct relationship between their academic major and the position they obtained.

11 (23%) respondents indicated an indirect relationship between their academic major and the position they obtained.

2 (4%) respondents indicated there was no relationship between their academic major and the position they obtained.

Internship Participation

47 (96%) of Engineering majors who responded to the Career Center survey indicated they participated in an average of 2.51 internship experiences over an average of 2.76 semesters. This reflects a 28 percentage point increase in comparison to the Class of 2009.

Usage of Career Services

48 (98%) respondents to the Career Center survey indicated they had utilized Career Services during their academic careers. Using a likert scale of 5 high to 1 low, graduates who utilized Career Services were asked to rate the service provided. The average rating was 3.65.

28 (90%) respondents reported utilizing TCNJ recruitment programs (i.e., internship programs and resources, job listings/binders, on-campus recruitment and Career Days).

Receipt of Advice from Faculty

When asked if they had received advice from faculty in their department or program, 33 (67%) respondents indicated they had.

26 (53%) indicated they had received advice regarding post graduation career plans.

17 (35%) indicated they had received advice regarding internships.

17 (35%) indicated they had received advice regarding graduate and professional school.

49 (100%) indicated they had either received career advice from their faculty or had used Career Services.

TCNJ's Preparation for Students' Career Goals

Engineering graduates rated how TCNJ prepared them for their current position utilizing a five-point scale (i.e., excellent to poor). Of the 49 (100%) respondents, 34 (69%) rated their preparation as excellent or above average. This reflects a 20 percentage point decrease in comparison with the Class of 2009. The average rating was 3.94.

15 (31%) excellent

13 (27%) average

1 (2%) poor

19 (39%) above average

1 (2%) below average

Quality of Academic Experience

Engineering graduates assessed the overall quality of their academic experience. Of the 47 (96%) respondents, 44 (94%) assessed their academic experience as excellent or above average. This reflects a 3 percentage point decrease in comparison with the Class of 2009. The average rating was 4.30.

20 (43%) excellent

3 (6%) average

0 (0%) poor

24 (51%) above average

0 (0%) below average

GRADUATE/PROFESSIONAL SCHOOL

Current Graduate/Professional School Attendance

21 (43%) of respondents indicated that they applied for graduate/professional school in the first year after graduation. 12 (57%) of those that applied had a contingency plan for if they were not admitted to graduate school. Of those who applied 81% enrolled in further study.

Of the survey respondents direct reporting of graduate school attendance, 17 (35%) of survey respondents are currently enrolled in graduate/professional school. Through the combination of the clearinghouse and self reporting, we identified that a total of 32 (29%) attended graduate/professional school after graduation.

Areas of Current & Intended Study

Engineering graduates who indicated they are attending (15 or 31%) or plan to attend (24 or 49% of all respondents) further study indicated they will pursue the following fields (number and percent of total respondents to item).

Field of Study	Those who currently attend		Those who plan to attend		Field of Study	Those who currently attend		Those who plan to attend	
	Count	Percent	Count	Percent		Count	Percent	Count	Percent
Arts	0	0%	0	0%	Humanities	0	0%	0	0%
Business	2	13%	6	25%	Human/Social Services	0	0%	0	0%
Communications	0	0%	0	0%	Law/Law Related	0	0%	0	0%
Computers	1	7%	0	0%	Medicine	1	7%	0	0%
Education	2	13%	11	46%	Nursing	0	0%	0	0%
Engineering	8	51%	5	20%	Scientific	0	0%	0	0%
Government	0	0%	0	0%	Social Sciences	0	0%	0	0%
Health Related	1	7%	1	4%	Other	0	0%	1	4%

Future Plans for Graduate Study

25 (51%) Engineering graduates plan to attend graduate/professional school in the future. 24 (49%) of the respondents who intend to pursue further study indicated the timing of their future attendance:

- 9 (38%) respondents plan to attend within the first 2 years after graduation.
- 19 (79%) respondents plan to attend within 4 years after graduation.
- 21 (88%) respondents plan to attend within 6 years after graduation.

Current Degrees and Highest Degree Level Sought

15 (88%) of those currently attending responded to the degree level they are pursuing. In addition, 46 (94%) respondents provided information on the highest degree level they intended to pursue. Of those intending to pursue advanced degrees:

Degree Level	Currently Pursuing		Highest Degree Planned	
	Count	Percent	Count	Percent
Bachelors	0	0%	32	70%
Certificate	1	7%	0	0%
Masters	9	60%	9	20%
Specialist	0	0%	1	2%
Doctorate	2	13%	1	2%
Professional	3	20%	3	7%

** Percentage reflects percent of those who responded to this item.*

Appendix B

Employment Report

by

Major, Department & School

Job Titles & Employers - School of Engineering Class of 2010

Major Field of Study	Full Time Job Title	Full Time Employer
Biomedical Engineering	Software Engineer	ABBOTT POINT OF CARE
Biomedical Engineering	Regulatory/quality/clinical	INTEGRA LIFE SCIENCES
Biomedical Engineering	2	
Civil Engineering	Transportation Planner I	AECOM
Civil Engineering	Environmental Engineer 2	ARCADIS
Civil Engineering	Project Engineer	IEW CONSTRUCTION GROUP
Civil Engineering	Enlisted	NAVY
Civil Engineering	4	
Computer Engineering	Project Manager	BANK OF AMERICA
Computer Engineering	Software Engineer	ITT
Computer Engineering	Software Engineer	MSE
Computer Engineering	3	
EI Ed - Math, Sci & Tech	Associate	AMERICAN APPRAISAL ASSOCIATES
EI Ed - Math, Sci & Tech	6th Grade Elementary Teacher	COLLIER COUNTY PUBLIC SCHOOLS
EI Ed - Math, Sci & Tech	Science Teacher (6th Grade)	DELRAN TOWNSHIP BOE
EI Ed - Math, Sci & Tech	7th Grade Science Teacher	EDGEWATER PARK TOWNSHIP BOARD OF
EI Ed - Math, Sci & Tech	Assistant Teacher	GODDARD SCHOOL OF TINTON FALLS
EI Ed - Math, Sci & Tech	Teacher	HILLSIDE BOARD OF EDUCATION
EI Ed - Math, Sci & Tech	Teacher	READINGTON TOWNSHIP SCHOOLS
EI Ed - Math, Sci & Tech	4th Grad Teacher	SCOTCH PLAINS-FANSWOOD PUBLIC
EI Ed - Math, Sci & Tech	1st Grade Teacher	SCOTCH PLAINS-FANSWOOD PUBLIC
EI Ed - Math, Sci & Tech	Product Manager	TINGLY RUBBER CORPORATION
EI Ed - Math, Sci & Tech	Program Analyst (civilian)	UNITED STATES ARMY
EI Ed - Math, Sci & Tech	11	
Engineering Science Management	Product Development Engineer	ALLOW SERVICES
Engineering Science	1	
Mechanical Engineering		AE POLYSILICON CORP.
Mechanical Engineering	Laser Manufacturing Engineer 1	BURPEE MATERIALS TECHNOLOGY
Mechanical Engineering	Project Engineer	DC FABRICATORS, INC
Mechanical Engineering	Manufacturing And Management	HAGEN AND COMPANY
Mechanical Engineering	Operations Engineer Ldp Asc	LOCKHEED MARTIN
Mechanical Engineering	Engineer In Training	PICATINNY ARSENAL
Mechanical Engineering	Installation Tech.	SOLULAR

Job Titles & Employers - School of Engineering Class of 2010

Major Field of Study	Full Time Job Title	Full Time Employer
Mechanical Engineering	Mechanical Engineer	UNITED STATES ARMY
Mechanical Engineering	Electrical Engineer	US DEPARTMENT OF DEFENSE
Mechanical Engineering	9	
Technology Ed	Technology Teacher	LENAPE REGIONAL HIGH SCHOOL
Technology Ed	Teacher	PALMYRA PUBLIC SCHOOLS
Technology Ed	Technology Teacher	SOUTH BRUNSWICK BOARD OF
Technology Ed	Technology Teacher	WESTWOOD REGIONAL SCHOOL
Technology Ed	4	
Total Respondents		34

Appendix C

**Graduate School
Report**

by

Major, Department & School

Graduate Schools and Programs of Study - School of Engineering Class of 2010

Major Field of Study	Program of Study	Current Graduate School
Biomedical Engineering	Engineering	DUKE UNIVERSITY
Biomedical Engineering	Allied Health	GEORGIA INSTITUTE OF TECHNOLOGY
Biomedical Engineering		JOHNS HOPKINS UNIVERSITY
Biomedical Engineering	Engineering	RPI
Biomedical Engineering		RUTGERS -THE STATE UNIVERSITY OF NJ -
Biomedical Engineering	Medicine	UMDNJ
Biomedical Engineering	Engineering	UNIVERSITY OF FLORIDA
Biomedical Engineering	Engineering	UNIVERSITY OF NOTRE DAME
Biomedical Engineering		UNIVERSITY OF PENNSYLVANIA
Biomedical Engineering		9
Biomedical Engineering	Business	RUTGERS
Biomedical Engineering		UMDNJ
BioMedical Engineering		2
Civil Engineering	Engineering	NJIT
Civil Engineering		PHILADELPHIA BIBLICAL UNIVERSITY
Civil Engineering		RUTGERS -NEW BRUNSWICK
Civil Engineering		3
Computer Engineering	Computer Science	BOSTON UNIVERSITY
Computer Engineering		RUTGERS -NEW BRUNSWICK
Computer Engineering	Engineering	RUTGERS UNIVERSITY
Computer Engineering		STEVENS INSTITUTE OF TECHNOLOGY
Computer Engineering		UNIVERSITY OF DELAWARE
Computer Engineering		5
EI Ed - Math, Sci & Tech	Education	COLLEGE OF NEW JERSEY
EI Ed - Math, Sci & Tech		GEORGIAN COURT UNIVERSITY
EI Ed - Math, Sci & Tech	Education	ST JOSEPH'S UNIVERSITY
EI Ed - Math, Sci & Tech		UNIVERSITY OF CONNECTICUT
EI Ed - Math, Sci & Tech		4
Mechanical Engineering	Engineering	DREXEL UNIVERSITY
Mechanical Engineering	Business	DREXEL UNIVERSITY
Mechanical Engineering		DREXEL UNIVERSITY

Includes Admissions Clearinghouse data from non-survey respondents.

Graduate Schools and Programs of Study - School of Engineering Class of 2010

<u>Major Field of Study</u>	<u>Program of Study</u>	<u>Current Graduate School</u>
Mechanical Engineering		OLD DOMINION UNIVERSITY
Mechanical Engineering	Engineering	STEVEN'S INSTITUTE OF TECHNOLOGY
Mechanical Engineering		STEVENS INSTITUTE OF TECHNOLOGY
Mechanical Engineering		U OF MARYLAND - COLLEGE PARK
Mechanical Engineering		UNIVERSITY OF ALABAMA
	Mechanical Engineering	8
Total Respondents		31

Appendix A

Salary Report

by

Major, Department & School

Salaries - School of Engineering Class of 2010

Major Field of Study	Number	Average Salarie
Biomedical Engineering	2	\$38,750
Civil Engineering	3	\$57,500
Computer Engineering	3	\$62,500
El Ed - Math, Sci & Tech	11	\$45,682
Engineering Science Management	1	\$52,500
Mechanical Engineering	7	\$58,214
Technology Ed	5	\$48,500
Total Respondents	32	\$51,328