



**THE COLLEGE OF NEW JERSEY**  
CAREER CENTER



# **TCNJ Class of 2017 School of Engineering First Year Out Survey Report**

## Table of Contents

<i>Overall Report</i>	3
<i>School of Engineering Report</i>	6
<i>Appendix A: Average Salaries</i>	8
<i>Appendix B: Job Titles and Employers</i>	10
<i>Appendix C: Graduate Schools and Programs of Study</i>	13

# Take a Look at Our 2017 TCNJ Alumni

## Post-Graduation Activity Summary

Data were available for 1,024 out of 1,417 (72%) graduates. In an effort to respond to declining response rates, the Career Center incorporated data obtained through immediate response surveys from the School of Business, the School of Engineering, the School of Arts & Communication, data from the Admissions Clearinghouse, and from professional online sites such as LinkedIn and G Plus. Information on employment and graduate school was obtained for 1,024 respondents. 98.4% (1008/1024) were employed full-time or part-time and/or attending graduate/professional school while 1.6% (16/1024) were not working or attending graduate/professional school. In January 2017, the U.S. Department of Labor reported an unemployment rate of 2.5% for college graduates.

## Experiential Learning/Internships

71.6% (566/790) participated in an internship for one or more semesters. Of this group, 63.1% (357/566) had an internship for 2 or more semesters.

- 62.8% (186/296) secured at least one semester of a paid internship
- 61.6% (162/263) secured an internship for at least one semester for academic credit
- 36.2% (109/301) secured employment after graduation through their internship

## Other Experiential Opportunities Included:

25.2% (146/580) participated in one or more semesters of student teaching; 8.4% (47/557) participated in one or more clinical experiences; 9.2% (52/567) participated in MUSE; 32.8% (196/597) participated in TCNJ sponsored research and 10.3% (59/575) participated in non-TCNJ sponsored research. 19/41 respondents indicated participating in a study abroad experience. 7 participants studied abroad in Spain, 5 in England, 2 in Germany, 1 in France, and 1 in Italy. 3 participants travelled to multiple places in Europe.

## TCNJ Career Preparation & Graduate Expectations

368 respondents rated how well they felt TCNJ prepared them for their careers. 95.7% (352/368) rated their preparedness between Average and Excellent and, of this group, 73.6 (271/368) rated their preparedness between Above Average and Excellent.

**Top Employers** – We obtained information on 625 graduates (44% of the Class of 2017) as to the name of their employer. The Top Employers were:

1. Johnson and Johnson (14)
2. JP Morgan Chase & Co. (11)
3. Bank of America (11)
4. Bloomberg LP (8)
5. AT&T (7)
6. Emergency Medical Associates/EmCare (7)
7. EY (6)
8. PricewaterhouseCoopers (6)
9. Freehold Regional School District (5)
10. Mindshare (5)
11. Naval Air Systems Command (5)
12. Penn Medicine Princeton Health (5)
13. St. Barnabas Medical Center (5)
14. Teach for America (5)
15. BlackRock (4)
16. Deloitte (4)
17. KPMG (4)
18. Lockheed Martin (4)
19. Memorial Sloan Kettering Cancer Center (4)
20. SHI International Corp. (4)
21. The College of New Jersey (4)
22. West Windsor-Plainsboro School District (4)

## Salary Information

- The average salary for graduates of the Class of '17 was \$56,200. This was a 1.6% increase from 2016. There was a significance difference in overall salary between males, N=266 (\$60,399) and females, N=397 (\$53,399). Average salaries by school:

Schools	A&C	Business	Education	Engineering	HSS	N&HES	Science
<b>Average Salary 2017</b>	\$47,350	\$60,050	\$54,702*	\$65,100	\$48,949	\$62,350	\$57,799
<b>Average Salary 2016</b>	\$49,761	\$59,142	\$48,661	\$63,750	\$48,241	\$61,333	\$56,145

\* This number includes the 68 Education graduates who are subsumed under different schools (i.e., Physics Educations graduates who are housed under Science are displayed under both Science and Education).

The following academic majors (with salary information available for more than one graduate) had the highest reported average salaries:

1. Computer Science (22), **\$83,399**
2. Computer Engineering (9), **\$76,650**
3. Physics (4), **\$71,250**
4. Nursing (47), **\$67,899**
5. Mathematics (8), **\$67,500**
6. Economics (13), **\$67,300**
7. Civil Engineering (15), **\$65,000**
8. Electrical Engineering (13), **\$64,249**
9. Mechanical Engineering (7), **\$62,849**
10. International Studies (5), **\$62,000**
11. Accounting (40), **\$61,375**
12. Finance (72), **\$61,100**
13. Health and Exercise Science Teaching (5), **\$61,000**
14. Management (21), **\$60,950**
15. Biomedical Engineering (13), **\$60,350**

## Graduate School Summary

247/1024 (24.1%) attended graduate school within the first year. 75.9% (777) were not attending graduate/professional school and 3.7% (38) were undecided regarding attending. Of the data available on 252 graduates, the Top Graduate/Professional Schools were:

1. TCNJ (59)
2. Rutgers University (35)
3. University of Pennsylvania (7)
4. New York University (7)
5. Columbia University (7)
6. Penn State University (6)
7. Monmouth University (5)
8. Johns Hopkins University (5)
9. Seton Hall University (4)
10. Georgia Tech (4)
11. Villanova University (3)
12. SUNY (3)
13. Rider University (3)
14. Drexel University (3)

# *School of Engineering Report*

# Class of 2017 – School of Engineering Post-Graduation Activity

## Employment

Information was obtained for 73.8% (79/107) of School of Engineering graduates. 70.9% (56/79) were employed full-time only, 11.4% (9/79) were employed full-time and attending graduate school, 0% (0/79) were employed part-time, 16.5% (13/79) were attending graduate school only, and 1.2% (1/79) were unemployed.

## Function of Employment

43 graduates specified which functions their careers fell into:

- 1 (3.6%) in Education
- 26 (92.8%) in Engineering
- 1 (3.6%) in Health

## Average Salaries

Salary information was available for 59 graduates who were employed full-time. Salary information was based on a range from “\$24,999 and under” to “\$100,000 and more” with \$4,999 intervals. The average salary for these graduates was \$65,100. There was no statistically significant difference in average salaries between males (\$65,312) and females (\$64,090).

## Number of Job Offers

Of the 28 respondents who provided information about job offers, all 28 received one or more job offers and 53.6% (15/28) received two or more job offers.

## Primary Major and Position Obtained

Of 27 respondents, 70.4% (19/27) indicated that their major was directly related to their obtained position, 22.2% (6/27) indicated their major was indirectly related, and 7.4% (2/27) indicated their major was unrelated.

## Internship Participation

77% (47/61) participated in an internship for at least one semester during their time at TCNJ, while 47.5% (29/61) of them participated in internships for two or more semesters.

## Graduate/Professional School

16.5% (22/79) were currently attending graduate school.

## Future Plans for Study

17 graduates indicated that they had plans for beginning graduate school in the next few years:

- 9 plan to attend graduate school within 2 years.
- 6 plan to attend graduate school within 4 years.
- 2 plan to attend graduate school within 6 years.

## Degrees Being Sought

30 graduates indicated that they were planning on (if not actively) pursuing further degrees in the future:

- 1 is/will be seeking a Bachelor’s Degree.
- 20 are/will be seeking a Master’s Degree.
- 1 is/will be seeking a Professional Degree.
- 6 are/will be seeking a Doctoral Degree.
- 1 is/will be seeking a Dual Program Degree
- 1 is/will be seeking another degree.

## Career/Graduate Preparedness and Academic Satisfaction

Respondents rated how well they felt TCNJ prepared them for their career and graduate/professional school, and their satisfaction with their academic experience at TCNJ. Their ratings were based on a 5-point Likert scale (1 = Poor, 5 = Excellent):

	Poor	Below Average	Average	Above Average	Excellent	Total	Average Rating
<b>Career</b>	0 (0%)	1 (3.5%)	7 (24.1%)	17 (58.6%)	4 (13.8%)	29	<b>3.83</b>
<b>Graduate School</b>	0 (0%)	0 (0%)	3 (23.1%)	7 (53.8%)	3 (23.1%)	13	<b>4.00</b>

# **APPENDIX A**

## **Average Salaries**

**Salaries – School of Engineering  
Class of 2017**

<b><u>Major Field of Study</u></b>	<b><u>Average Salary</u></b>
Biomedical Engineering (13)	<b>\$60,350</b>
Civil Engineering (15)	<b>\$65,000</b>
Computer Engineering (9)	<b>\$76,650</b>
Electrical Engineering (13)	<b>\$64,249</b>
Mechanical Engineering (7)	<b>\$62,849</b>
Technology Education (2)	<b>\$57,500</b>

**Mean – \$65,100**

**Salary information obtained on employed graduates: 59/65 (90.8%)**



# **APPENDIX B**

## **Job Titles & Employers**

# Job Titles & Employers - School of Engineering Class of 2017

<u>Major Field of Study</u>	<u>Full Time Job Titles</u>	<u>Full Time Employer</u>
Biomedical Engineering	Client Service Technician	
Biomedical Engineering	Research Engineer	Acuitive Technologies
Biomedical Engineering	Technician II	BD
Biomedical Engineering	Mechanical Engineer	Bentech Inc.
Biomedical Engineering	Quality Engineer	Cook Medical
Biomedical Engineering	General Engineer	Edgewood Chemical Biological Center
Biomedical Engineering	Emergency Room Scribe	Emergency Medical Associates (EMA)
Biomedical Engineering	Technical Problem Solver	Epic Systems
Biomedical Engineering	Field Engineer	GE Healthcare
Biomedical Engineering	Scientist	Johnson & Johnson
Biomedical Engineering	Clinical Research Associate	NJ Urology
Biomedical Engineering	Sr. Associate Engineer	PSEG
Biomedical Engineering	Associate Scientist	Pfizer
Biomedical Engineering	Associate Scientist	TDM Pharmaceutical Research

**Biomedical Engineering**

**14**

Civil Engineering	Civil Site Plan Engineer	Bladykas & Panetta
Civil Engineering	Assistant Engineer 1	CHA Consulting
Civil Engineering	Engineering Technician	CME Associates
Civil Engineering	Geotechnical Engineer	Hardesty & Hanover
Civil Engineering	Track Designer	HNTB
Civil Engineering	Civil Engineer	Jacobs
Civil Engineering	Associate Structural Engineer	Lane Engineering
Civil Engineering	Staff Engineer	Langan Engineering Services
Civil Engineering	Associate Civil Engineer	Michael Baker International
Civil Engineering	Assistant Engineer	Morris County
Civil Engineering	Structural Bridge Design Trainee	NJ Department of Transportation
Civil Engineering	Civil Engineer Trainee	NJ Department of Transportation
Civil Engineering	Civil Engineer Intern	NYC Department of Transportation
Civil Engineering	Designer	Suburban Consulting Engineers
Civil Engineering	Engineering Management Trainee	Tilcon

**Civil Engineering**

**15**

Computer Engineering	Software Development Engineer	Amazon
Computer Engineering	Software Engineer	Cybersoft
Computer Engineering	Technical Program Manager	Facebook
Computer Engineering	Software Engineer	Facebook
Computer Engineering	Operations Engineer Intern	iCIMS
Computer Engineering	Software Developer	Johnson & Johnson
Computer Engineering	Electrical Engineer I	LGS Innovations
Computer Engineering	Computer Engineer	Naval Air Systems Command
Computer Engineering	Junior Software Developer	RAB Lighting

**Computer Engineering****9**


---

Electrical Engineering	Applications Engineer	ASCO Power Technologies
Electrical Engineering	Associate Product Engineer	ASCO Power Technologies
Electrical Engineering	Junior Electrical Engineer	AstrodyneTDI
Electrical Engineering	Software Engineer	AT&T
Electrical Engineering	Calibration Technician	Biomed Associates
Electrical Engineering	Electrical Engineer	Cosentini Associates, New York, NY
Electrical Engineering	Project Engineer	GlobTek Inc, Northvale, NJ
Electrical Engineering	Electronics Engineer	IMET corporation
Electrical Engineering	Signal Integrity Engineer	L3 Technologies
Electrical Engineering	System Engineer	Lockheed Martin
Electrical Engineering	Electrical Engineer	Naval Air Systems Command
Electrical Engineering	Electrical Engineer	Naval Air Systems Command
Electrical Engineering	Electrical In-Service Engineer	Naval Air Systems Command
Electrical Engineering	Naval Officer	U.S. Navy
<b>Electrical Engineering</b>		<b>14</b>

---

Engineering Science	Logistics Engineer	Turner Logistics
<b>Engineering Science</b>		<b>1</b>

---

Mechanical Engineering	Manufacturing Engineer	Boeing
Mechanical Engineering	Mechanical Engineer 1	LGS Innovations
Mechanical Engineering	Operations Leadership Program	Lockheed Martin
Mechanical Engineering	Environmental Engineer	NJDEP
Mechanical Engineering	Engineering Associate	Port Authority of New York and NJ
Mechanical Engineering	Engineer	Strahman Valves, Inc.
Mechanical Engineering	Data Associate	Transamerica
Mechanical Engineering	Engineering Assistant	Turner Construction in Somerset, NJ
Mechanical Engineering	Operations Supervisor	Verizon
Mechanical Engineering	Project Superintendent	Walters Group
<b>Mechanical Engineering</b>		<b>10</b>

---

Technology Education	Technology Education Teacher	Closter Public School
Technology Education	STEM Teacher	Totenville Staten Island School District
<b>Technology Education</b>		<b>2</b>

---

# **APPENDIX C**

## **Graduate Schools & Programs of Study**

# Graduate Schools and Programs of Study

## School of Engineering

### Class of 2017

Major Field of Study	Program of Study	Current Graduate School
Biomedical Engineering	PhD in Biomedical Engineering	Cornell University
Biomedical Engineering	Applied Biomedical Engineering	Johns Hopkins University
Biomedical Engineering	Biomedical Engineering	North Carolina State University
Biomedical Engineering		Rutgers University
Biomedical Engineering	Biomedical Engineering	Rutgers University
Biomedical Engineering	Doctor of Osteopathic Medicine	Touro College Osteopathic Medicine
Biomedical Engineering	Biomedical Engineering	University of Florida
Biomedical Engineering	Radiation Oncology	Virginia Tech
<b>Biomedical Engineering</b>		<b>8</b>
Civil Engineering	Civil Engineering	Johns Hopkins University
Civil Engineering	Civil Engineering (Geotechnical)	NJ Institute of Technology
Civil Engineering	Water Resources and Environmental	Rutgers University
Civil Engineering	Engineering Management	Stevens Institute of Technology
Civil Engineering	Structural Engineering	University of Illinois
Civil Engineering	Water Resources and Environmental	Villanova University
<b>Civil Engineering</b>		<b>6</b>
Computer Engineering	Software Engineering	Monmouth University
Computer Engineering	Business Administration	Rider University
Computer Engineering	Computer Engineering	Rutgers University
Computer Engineering	Systems Engineering	Stevens Institute of Technology
<b>Computer Engineering</b>		<b>4</b>
Electrical Engineering	Computer Science	Georgia Institute of Technology
Electrical Engineering	Electrical Engineering	University of Pennsylvania
<b>Electrical Engineering</b>		<b>2</b>
Mechanical Engineering	Mechanical Engineering	New York University
Mechanical Engineering	Chemical Engineering	Stony Brook University
<b>Mechanical Engineering</b>		<b>2</b>