



TCNJ THE COLLEGE OF
NEW JERSEY

Class of 2016

First Year Out Survey Report

School of Engineering

Highlights & Engaging in the Possibilities

Our center supports the College's mission by fostering an environment that encourages students' career development through academic, leadership and experiential education. Optimal student collaborations are built and enhanced through meaningful relations with Alumni, employers and representatives of post graduate education. All of our services and events assist in the integrated transformative total student experience and enhance opportunities for mentored internships as well as provide opportunities for students to connect with potential employers, internship supervisors and graduate professional representatives to articulate "their story."

Outcome: #12 Princeton Review [Best Career Services](#) for 2016

Student Contacts

- 12,572 students come in contact with the Career Center (this does not include CE Intern coordination or Student Employment).
- 1,730 students participated in the Career Center for Open Hours (primarily for Resume Review), meeting with trained Peer Educators, Career Counselors or graduate career counseling interns.
- 909 students participated in career counseling appointments. 764 students explore options, skills and values through on-line assessment tools-Focus 2, MBTI or Strong. Satisfaction survey indicates students gain 2 additional resources and the session meets or exceeds expectations.
- Students use a mock interview tool to evaluate the interview. Employers have rated students higher in FY16 from FY 15 in articulating their career goals and experiences.
- 3,237 students participated in 133 workshops or integrated classroom activities. The workshops are on topics such as career exploration, networking, professional development, interviewing skills, internships, utilizing social media, job search skills, use of the on line system, Lionslink/on line resources

Career Days, Site Visits & Networking Events

- 943 students attended the 2 career fairs (Spring and Fall) with 354 representatives from business, non-profit, government and graduate/professional school. National Association of Colleges & Employers (NACE) reported between the 2014-15 and 2015-16 academic years, the median number of organizations participating in career fairs jumped from 125 to 148, an indicator of an improved labor market for new college graduates. TCNJ event participation continues to be higher than the average.
- 320 students attended 1 of the 6 networking events: the Annual Engineering and Computer Science Meet & Greet, PharmaTech Symposium, HSS Networking, Non Profit Networking, Accounting Meet & Greet, Nursing Network and DC Career Day. Approximately, 30% of employers attending networking & recruiting events are TCNJ Alumni.
- 2 site visits involving 20 students visited Sparta Systems, Hamilton NJ and Isles, Trenton NJ gaining insight into the culture, innovation and potential opportunities. 3 students gained internships from this experience
- Each semester the Career Center facilitates an interactive Career Planning course through HSS with 24 students. Student feedback is extremely positive and guest speakers are a mainstay of the course.
- 121 students attend a business etiquette program, **Dining Out In Professional Style**. A consultant walks us through a 4 course meal while representatives from industries keep a lively conversation at the tables. Students leave with 1-2 new tips or strategies for the interview over lunch.
- 250 students attended **information sessions and employer roundtables** from 57 organizations.

Leadership & Internship Opportunities

- 4-6 Peer Career Educators are students who receive 10 hours of training on resume writing/cover letters and career services and assist in the open hours (which continue to gain popularity)
- The **College Enhancement Internship program** is housed in the Career Center where 33 interns participate in an internship within 22 departments of the College completing project based work as well as participate in an on boarding program, 3 leadership trainings, written reflection and "Connections."

Internships & Recruitment

- The one year out survey, respondents reported spending 2-3 semesters in internships or other experiential opportunities.
- Over 250 organizations provided 3986 on campus student interviews in FY16. Over 500 organizations posted positions with 8,000 TCNJ candidates' resumes distributed. Employer development increased recruitment partnerships with AstraZeneca, JPMorgan Chase, Merck, Sobel, iCIMS, Intel, Seimens, Nayak, NDI, Whiting-Turner, NJ School Districts and One Simple Wish.

Table of Contents

<i>TCNJ Excerpt</i>	4
<i>School Report</i>	5
<i>Appendix A: Average Salaries</i>	6
<i>Appendix B: Job Titles and Employers</i>	7
<i>Appendix C: Graduate Schools and Programs of Study</i>	9

Take a look at our 2016 TCNJ Alumni

Post-Graduation Activity Summary

894/1689 (53%) of graduates responded to the survey. 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 and data from the Admissions Clearinghouse. As a result of the information obtained, all 894 respondents provided both graduate school and employment information. 98.9% reported they were employed full-time or part-time and/or attending graduate/professional school. Of the respondents, 1.1% were not working or attending graduate/professional school.

Experiential Learning/Internships

65.8% (416/632) of survey respondents indicated they had participated in an internship for one or more semesters. Of this group, 53.4% (222/416) had an internship for 2 or more semesters.

65.4% (155/237) secured at least one semester of a paid internship and 56.8% (125/220) had at least one unpaid internship.

57.1% (137/240) had indicated an internship for at least one semester for academic credit and 60% (140/235) indicated an internship for at least one semester for no credit.

38.1% (94/247) of respondents indicated their internship experience secured them employment after graduation.

Other experiential opportunities included:

16.7% (96/576) indicated they had one or more semesters of student teaching; 7.2% (41/570) indicated they had one or more clinical experiences; 6.2% (35/569) indicated participation in MUSE; 20.5% (117/571) indicated participation in TCNJ sponsored research and 7% (40/570) indicated participation in non-TCNJ sponsored research.

TCNJ Career Preparation & Graduate Expectations

354 respondents rated how well they felt TCNJ prepared them for their careers. 341 (96.3%) rated their preparedness between Average and Excellent, and of this group 265 (77.7%) rated their preparedness between Above Average and Excellent.

Top Employers – Of the 625 respondents who provided their place of work, the Top Employers were:

- | | | |
|-------------------------------|--|-------------------------|
| 1. Johnson and Johnson (12) | 9. EY (4) | 17. L’Oreal (3) |
| 2. JP Morgan Chase & Co. (8) | 10. Crowe Horwath (4) | 18. Bank of America (3) |
| 3. TCNJ (8) | 11. CareKinesis Pharmacy (4) | 19. Aerotek (3) |
| 4. Bloomberg LP (7) | 12. Emergency Med. Assoc. (4) | 20. ADP (3) |
| 5. Deloitte, LLP (6) | 13. West Windsor-Plainsboro Reg SD (4) | |
| 6. City Year - AmeriCorps (6) | 14. PNC Bank (3) | |
| 7. PwC (5) | 15. Lockheed Martin (3) | |
| 8. Freedom Mortgage (5) | 16. ETS (3) | |

Salary Information

The average salary for graduates of the Class of ‘16 was \$55,341. This was a 10% increase from 2015. Average salaries by school:

Schools	A&C	Business	Education	Engineering	HSS	N&HES	Science
Average Salary 2016	\$49,761	\$59,142	\$48,661	\$63,750	\$48,241	\$61,333	\$56,145
Average Salary 2015	\$41,143	\$55,791	\$43,409	\$59,444	\$42,356	\$56,209*	\$51,716

The following academic majors, with more than one graduate reporting, had the highest reported average salaries:

- | | |
|---|--|
| 1. Computer Science (8), \$87,500 | 6. Engineering Science (5), \$64,500 |
| 2. Electrical Engineering (3), \$79,167 | 7. Finance (44), \$62,386 |
| 3. Computer Engineering (7), \$72,500 | 8. Interactive Multimedia (12), \$61,667 |
| 4. Biomedical Engineering (7), \$65,357 | 9. Accounting (35), \$60,643 |
| 5. Nursing (27), \$65,277 | 10. Civil Engineering (7), 60,357 |

Graduate School Summary

Of 758 respondents, 256 (33.8%) indicated they attended graduate school within the first year. 60% of respondents indicated they were not attending graduate/professional school and 6.2% were undecided regarding attending. Of the 252 respondents who reported the graduate school they were attending, the Top Graduate/Professional Schools were:

- | | | |
|------------------------------------|-----------------------------------|--|
| 1. Rutgers University (41) | 5. Drexel University (6) | 9. Seton Hall University (5) |
| 2. TCNJ (39)* | 6. Kean University (6) | 10. Fairleigh Dickinson University (4) |
| 3. University of Pennsylvania (11) | 7. Montclair State University (5) | 11. Johns Hopkins University (4) |
| 4. University of Delaware (7) | 8. Penn State (5) | 12. SUNY (4) |

Class of 2016 – School of Engineering Post-Graduation Activity

Employment

69% (68/99) of School of Engineering graduates completed the surveys. Of the 68 respondents, 51 (75%) indicated that they are currently employed full-time or part-time.

Function of Employment

43 graduates specified which functions their careers fell into:

3 (7%) in Business	3 (7%) in Information Technology
5 (11.6%) in Education	2 (4.6%) in Research
30 (69.8%) in Engineering	

Average Salaries

44 graduates who were employed full-time provided their salary information based on a range from “\$24,999 and under” to “\$150,000 and more” with \$4,999 intervals. The average salary for these graduates was \$63,750.

Number of Job Offers

Of the 45 respondents who provided information about job offers, 44 received one or more job offers.

Primary Major and Position Obtained

Of 42 respondents, 40 (95.2%) indicated that their major was directly or indirectly related to their obtained position.

Internship Participation

35 respondents participated in an internship for at least one semester during their time at TCNJ, while 18 of them participated in internships for two or more semesters.

Graduate/Professional School

20 respondents indicated that they were currently attending graduate school.

Future Plans for Study

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

- 12 plan to attend graduate school within 2 years.
- 3 plan to attend graduate school within 4 years.
- 5 plan to attend graduate school within 6 years.

Degrees Being Sought

40 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.
- 1 is/will be seeking a Certificate.
- 23 are/will be seeking Master’s Degrees.
- 3 are/will be seeking a Professional Degree.
- 12 are/will be seeking Doctoral Degrees.

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
Career	0	1	11	20	7	39	3.85
Graduate School	0	0	2	8	4	14	4.14

**Salaries – School of Engineering
Class of 2016**

<u>Major Field of Study</u>	<u>Average Salary</u>
Biomedical Engineering	\$65,357
Civil Engineering	\$60,357
Computer Engineering	\$72,500
Electrical Engineering	\$79,167
Engineering Science	\$64,500
Mechanical Engineering	\$57,500

Mean – \$63,750

Those who provided their salary out of employed respondents: 44/51

Job Titles & Employers - School of Engineering Class of 2016

<u>Major Field of Study</u>	<u>Full Time Job Titles</u>	<u>Full Time Employer</u>
Biomedical Engineering	Quality Engineer	Integra LifeSciences
Biomedical Engineering	Quality Engineer	Ivoclar Vivadent
Biomedical Engineering	Operations Process Engineer I	LifeCell Corp.
Biomedical Engineering	Quality Engineer I	Burpee Materials Technology
Biomedical Engineering	Engineer Product Support	Stryker
Biomedical Engineering	Quality Engineer I	Alcon: A Novartis Company
Biomedical Engineering		6
Civil Engineering	Staff Engineer	Distinct Engineering Solutions Inc.
Civil Engineering	Project Engineer	The Whiting-Turner Contracting Company
Civil Engineering	Design Engineer	CME Associates
Civil Engineering	Civil Engineer Trainee	NJ Department of Transportation
Civil Engineering	Junior Field Engineer	A. Servidone B. Anthony Construction
Civil Engineering	Geotechnical Engineer	Hardesty & Hanover
Civil Engineering		6
Computer Engineering	Software Engineer	Diopsys, Inc.
Computer Engineering	Computer Engineer	NAVAIR
Computer Engineering	Associate Engineer	Lockheed Martin
Computer Engineering	Software Engineer	Vanguard
Computer Engineering	Departmental Computer Support	Princeton University
Computer Engineering	Software Engineer	Lockheed Martin
Computer Engineering		6
Electrical Engineering	Chief Operating Officer	Advanced Contracting Solutions LLC
Electrical Engineering	Electrical Engineer I	Total Technology
Electrical Engineering	Associate Engineer	Bloomy
Electrical Engineering		3

Engineering Science	Engineering Associate	PSE&G
Engineering Science	Field Engineer	Turner Construction Co.
Engineering Science	Production Engineer	Skydyne
Engineering Science	Associate Engineer	Lane Engineering P.C.
Engineering Science	Financial Advisor	Creative Financial Strategies
Engineering Science	Product Manager	ASCO Power

Engineering Management

6

Mechanical Engineering	Data Programmer & App Testing	MedPro Systems LLC
Mechanical Engineering	Mechanical Engineer	Avionic Instruments
Mechanical Engineering	Staff Engineer	Whitman
Mechanical Engineering	Project Manager	Project Control Associates
Mechanical Engineering	Product Engineer	Victaulic
Mechanical Engineering	Data Associate	Transamerica
Mechanical Engineering	Inside Sales Engineer	Mainstream Fluid & Air
Mechanical Engineering	Project Designer	Frazier Industrial Company
Mechanical Engineering	Mechanical Engineer	NAVAIR
Mechanical Engineering	Aftermarket Engineer Develop.	Pratt & Whitney

Mechanical Engineer

10

Technology Education	Technology Teacher	West Windsor Plainsboro Regional SD
Technology Education	Teacher	Madison Public Schools
Technology Education	Technology Education Teacher	Freehold Regional School District

Technology Education

3

Graduate Schools and Programs of Study

School of Engineering

Class of 2016

Major Field of Study	Program of Study	Current Graduate School
Biomedical Engineering	MBA	Fairleigh Dickinson University
Biomedical Engineering	MBA	NJIT
Biomedical Engineering	Dental Surgery	NYU College of Dentistry
Biomedical Engineering	Biomedical Engineering	Stevens Institute of Technology
Biomedical Engineering	Biomedical Engineering	Cornell University
Biomedical Engineering	Bioengineering	Clemson University
Civil Engineering	Structural Engineering	University of Michigan
Civil Engineering	Civil Engineering	University of Delaware
Civil Engineering	Structural Engineering	Stevens Institute of Technology
Computer Engineering	Electrical/Computer Engineering	Johns Hopkins University
Computer Engineering	Computer Science	Drexel University
Electrical Engineering	Electrical Engineering	Stevens Institute of Technology
Electrical Engineering	Electrical Engineering	Ohio State University
Electrical Engineering	Electrical Engineering	NYU Tandon School of Engineering
Engineering Science	Engineering Science	Rutgers University
Engineering Science	Engineering Science	Clarkson University
Mechanical Engineering	MBA – Finance	Rutgers University
Mechanical Engineering	Biomedical Engineering	Rutgers University
Mechanical Engineering	Biomedical Engineering	University of Delaware