



**THE COLLEGE OF NEW JERSEY**  
CAREER CENTER



# **TCNJ Class of 2017**

## **School of Science**

# **First Year Out Survey Report**

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# 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 Science Report*

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

### Employment

Information was obtained for 70.2% (144/205) of School of Science graduates. 61.8% (89/144) were employed full-time only, 4.2% (6/144) were employed full-time and attending graduate school, 1.4% (2/144) were employed part-time only, 1.4% (2/144) were employed part-time and attending graduate school, 31.2% (45/144) were attending graduate school only, and 0% (0/144) were unemployed.

### Function of Employment

39 graduates specified which functions their careers fell into:

4 (9.3%) in Administrative Services	1 (2.3%) in Non-profit
4 (9.3%) in Business	1 (2.3%) in Nursing
13 (30.3%) in Education	5 (11.6%) in Research
2 (4.7%) in Engineering	8 (18.6%) in Other fields
5 (11.6%) in Information Technology	

### Average Salaries

Salary information was available for 90 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 \$57,799. There was a significant difference between the average salary for males (\$66,300) and the average salary for females (\$51,550).

### Number of Job Offers

Of the 50 respondents who provided information about job offers, 96% (48/50) received one or more job offers and 64.0% (32/50) received two or more job offers.

### Primary Major and Position Obtained

Of 42 respondents, 71.4% (30/42) indicated that their major was directly related to their obtained position, 21.4% (9/42) indicated their major was indirectly related, and 7.1% (3/42) indicated their major was unrelated.

### Internship Participation

51.1% (48/94) participated in an internship for at least one semester during their time at TCNJ, while 20.2% (19/94) of them participated in internships for two or more semesters.

### Graduate/Professional School

31.3% (53/144) were currently attending graduate school.

### Future Plans for Study

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

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

### Degrees Being Sought

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

- 24 are/will be seeking a Master’s Degrees.
- 18 are/will be seeking a Professional Degree.
- 19 are/will be seeking a Doctoral Degrees.
- 2 are/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%)	0 (0%)	7 (15.9%)	19 (43.2%)	18 (40.9%)	44	<b>4.25</b>
<b>Graduate School</b>	0 (0%)	0 (0%)	5 (17.2%)	10 (34.5%)	14 (48.3%)	29	<b>4.31</b>

# **APPENDIX A**

## **Average Salaries**

**Salaries – School of Science  
Class of 2017**

<u>Major Field of Study</u>	<u>Average Salary</u>
Biology (30)	\$37,500
Biology Secondary Ed. (2)	\$55,000
Chemistry (6)	\$48,349
Computer Science (22)	\$83,399
Math Secondary Education (9)	\$56,100
Mathematics (14)	\$63,214
Physics (4)	\$71,250
Physics Secondary Ed. (3)	\$55,000

**Mean – \$57,799**

**Salary information obtained on employed graduates: 90/99 (90.9%)**



# **APPENDIX B**

## **Job Titles & Employers**

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

<u>Major Field of Study</u>	<u>Full Time Job Titles</u>	<u>Full Time Employer</u>
Biology	EMT	
Biology	Production Technician	Allergan
Biology	Microbiology Technician	Aqua Pro-Tech Laboratories
Biology	Financial Advisor	Bank of America/Merrill Lynch
Biology	Patient Care Technician	Baylor Scott and White Health
Biology	Phone Interviewer	Braun Research Incorporated
Biology	Dental Assistant	E-Dental
Biology	Clinical Information Manager	EmCare (EMC)
Biology	Clinical Information Manager	Emergency Medical Associates (EMA)
Biology	Front Desk Coordinator	Gruber Dental
Biology	PSR	Hunterdon Medical Center
Biology	Research Assistant	John Theurer Cancer Center
Biology	QC Microbiologist I	Luitpold Pharmaceuticals
Biology	National Youth Council Member	March of Dimes
Biology	Big Sky Watershed Corps Member	Montana Aquatic Resources Services
Biology	Life Sciences consultant	Navigant Consulting
Biology	Vet Assistant	Oradell Animal Hospital
Biology	Research Specialist	Perelman School of Medicine at UPenn
Biology	Medical Education Associate	Physicians' Education Resource LLC
Biology	Veterinary Technician	Plumsted Animal Hospital
Biology	Nursing Staff	Princeton Family Care Associates
Biology	Physical Therapy Aide	Princeton Orthopedic Associates
Biology	Preschool Classroom Teacher	Scotch Plains Fanwood YMCA
Biology	Associate Scientist	SigmaPharm Laboratories
Biology	Molecular Lab Technician	The Field Museum
Biology	Peace Corps Health Education	US Government Peace Corps
Biology	Research Specialist	University of Pennsylvania
Biology	Medical Scribe	Wound Care, Skin, Minor Surgery Program

**Biology**

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Biology Secondary Ed.	Biology Teacher	South Brunswick Public Schools
Biology Secondary Ed.	Biology Teacher	West Windsor Public Schools

**Biology Secondary Ed.**

**2**

Chemistry	Scientist 1	Amneal Pharmaceuticals
Chemistry	Junior Chemist	Dermaceutical Laboratories
Chemistry	Clinical Information Manager	Emergency Medical Associates (EMA)
Chemistry	Applications Technologist	Givaudan
Chemistry	R&D Process Chemist	Hovione

Chemistry  
Chemistry

Nursing Assistant  
Associate Scientist

Morristown Medical Center  
SigmaPharm Laboratories

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**Chemistry**

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Computer Science	Associate Applications Developer	ADP
Computer Science	Software Developer Engineer	Amazon
Computer Science	Associate Application Developer	AT&T
Computer Science	Associate Application Developer	AT&T
Computer Science	System Design Engineer	AT&T
Computer Science	Software Engineer	AT&T
Computer Science	User Experience Designer	Avanade
Computer Science	Software Engineer	BAE Systems
Computer Science	Associate Scientist	Bristol-Myers Squibb
Computer Science	Software Engineer	ClassLink
Computer Science	Software Engineer	Google
Computer Science	Systems Engineer	Hub City Media, Inc.
Computer Science	Software Engineer	Lockheed Martin
Computer Science	Application Security Analyst	McGraw Hill Education
Computer Science	Computer Scientist	Naval Air Systems Command
Computer Science	Software QA Engineer	NEST
Computer Science	Software Developer Express	Scripts
Computer Science	iOS/Web Developer	Sogeti
Computer Science	Application Developer	STORIS
Computer Science	Software Engineer	Tata Consultancy Services
Computer Science	Program Associate	UnitedHealth Group
Computer Science	Programmer & Technical Leader	Wakenfern Food Corp.

**Computer Science**

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Mathematics	Product Consultant	Allstate
Mathematics	Business Information Analyst	Anthem, Inc.
Mathematics	Actuarial Student	Aon Hewitt
Mathematics	Corporate Audit Analyst	Bank of America/Merrill Lynch
Mathematics	Actuarial Analyst	Berkley Accident and Health
Mathematics	Junior Data Analyst	Carat USA
Mathematics	Assistant Actuary	Conduent
Mathematics	Analyst Trainee	Department of Treasury
Mathematics	Statistical Data Analyst	Educational Testing Service
Mathematics	Project Manager	Exhibit Surveys
Mathematics	Software Engineer Associate	Lockheed Martin
Mathematics	Actuary	New York Life Insurance Company
Mathematics	Government Contracts Analyst	Par Pharmaceutical
Mathematics	Middle School Teacher	Quitman Street Community School
Mathematics	Securities Lending Operations Clerk	Sumitomo Mitsui Trust Bank
Mathematics	Project Management Analyst	SystemOne

**Mathematics****17**


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Math Sec. Ed.	Middle School Math Teacher	Baltimore City Public Schools
Math Sec. Ed.	Middle School Math Teacher	East Brunswick Public Schools
Math Sec. Ed.	9th Grade Geometry Teacher	East Brunswick Public Schools
Math Sec. Ed.	Middle School Math Teacher	Englewood Public School District
Math Sec. Ed.	Math Teacher	Freehold Regional High School District
Math Sec. Ed.	ELL Mathematics Teacher	Long Branch High School
Math Sec. Ed.	Middle School Math Teacher	Monroe Township Middle School
Math Sec. Ed.	Middle School Math Teacher	Seminole County School District
Math Sec. Ed.	Mathematics Teacher	Westfield School District

**Mathematics Secondary Education****9**


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Physics	Systems Engineer II	Charter Communications
Physics	Coating Technician I	Edmund Optics Inc.
Physics	Threat Analyst	SRI International

**Physics****3**


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Physics Sec. Ed.	High School Physics Teacher	Franklin Township
Physics Sec. Ed.	Physics Teacher	Robbinsville Public School
Physics Sec. Ed.	Physics Teacher	Toms River Regional Schools

**Physics Secondary Ed****3**

# **APPENDIX C**

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

# Graduate Schools and Programs of Study

## School of Science

### Class of 2017

Major Field of Study	Program of Study	Current Graduate School
Biology		Cooper Medical Rowan University
Biology	Medicine	Drexel University
Biology	Pharm.D.	Fairleigh Dickinson University
Biology		Johns Hopkins University
Biology	Dentistry	New York University
Biology	Medicine	NJMS
Biology	Neurobiology	Northwestern University
Biology	Physician Assistant	Philadelphia College Ost. Medicine
Biology	Biomedical and Health Sciences	Rutgers University
Biology	Medicine	Rutgers University
Biology	MD	Rutgers University
Biology	Medicine	Rutgers University
Biology	Medical Doctorate	Rutgers University
Biology	Medicine	Rutgers University
Biology	Public Health	Rutgers University
Biology		Rutgers University
Biology	Masters of Biomedical Science	Rutgers University
Biology	Neuroscience	Rutgers University
Biology	MD	Rutgers University
Biology	Optometry	SUNY
Biology	Optometry, OD program	SUNY
Biology	Doctor of Optometry	SUNY
Biology	Masters of Arts in Teaching	TCNJ
Biology	Microbiology	The University of Georgia
Biology	Doctor of Medicine	Trinity School of Medicine
Biology	Medicine	University of Pittsburgh

**Biology**

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Chemistry	Marine Science	College of William and Mary
Chemistry	Doctor of Medicine	Icahn School of Med. Mount Sinai
Chemistry	Doctor of Medicine	Johns Hopkins University
Chemistry	MD	Penn State
Chemistry	Chemistry	Penn State
Chemistry	Chemistry	University of Chicago
Chemistry	Chemistry PhD	University of Illinois
Chemistry	Chemistry	University of Pennsylvania
Chemistry	Inorganic Chemistry	Yale University

**Chemistry**

**8**

Computer Science	Computer Science	Georgia Institute of Technology
Computer Science	Computer Science	Georgia Institute of Technology
Computer Science	Computer Science	University of Pennsylvania

**Computer Science** **3**

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Mathematics	Applied Mathematics	Brown University
Mathematics	Data Science	New York University
Mathematics	Applied Statistics	Penn State University
Mathematics	MAT Secondary Education	TCNJ
Mathematics	Mathematics	Wesleyan University
Mathematics Statistics	Statistics	Penn State University

**Mathematics** **6**

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Mathematics Sec. Ed.	Mathematics Secondary Education	University of Central Florida
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**Mathematics Sec. Ed.** **1**

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Physics	Marine, Earth Sciences	North Carolina State University
Physics	Geophysics	University of California - Santa Cruz
Physics	Physics	University of Colorado - Boulder
Physics	Physics	University of Delaware
Physics	Astrophysics	University of North Carolina

**Physics** **5**

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Physics Secondary Education	Physics	North Dakota University
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**Physics Secondary Education** **1**

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