# SCHOOL OF ENGINEERING

**TCNJ** | THE COLLEGE OF NEW JERSEY

## ONE YEAR OUT REPORT: CLASS OF 2019

Information was obtained for 68.6% (72/105) of School of Engineering graduates who were awarded their bachelor's degree in August 2018, December 2018, and May 2019. Among the 72 graduates, 100% (72/72) reported employment or continuing education plans. Of the 72 reporting employment or continuing education, 83.3% (60/72) were employed, and 16.7% (12/72) were continuing education.

# EMPLOYMENT

Among the 60 Class of 2019 graduates reporting employment, 100% (60/60) were employed full time. Below are details on employment trends among those reporting full-time employment.

| JOB FUNCTIONS | COUNT | PERCENT |
|---|---|---|
| Engineering | 46 | 76.7% |
| Business | 4 | 6.7% |
| Administrative | 2 | 3.3% |
| Computer Science | 2 | 3.3% |
| Data Analytics | 2 | 3.3% |
| Education | 2 | 3.3% |
| Information Technology | 1 | 1.7% |
| Research | 1 | 1.7% |
| TOTAL | 60 | 100.0% |

## SALARY TRENDS

The median salary reported is $65,000 based on 43 graduates; this is a slight decrease compared to the Class of 2018 average salary of $65,650. The median salary for females is $67,500 with 12 reporting, and the median salary for males is $62,500 with 31 reporting.

## JOB OFFERS

Among the 46 graduates in full-time positions reporting job offer count, here is a breakdown:

| JOB OFFER COUNT | COUNT | PERCENT |
|---|---|---|
| One (1) Job Offer | 26 | 56.5% |
| Two (2) Job Offers | 15 | 32.6% |
| Three (3) Job Offers | 5 | 10.9% |
| Four (4) or More Job Offers | | 0.0% |
| TOTAL | 46 | 100.0% |

## MAJOR RELATION

Among the 60 reporting full-time employment, 18 indicated whether their major was directly related to their position. 83.3% (15/18) reported direct relation and 16.7% (3/18) reported indirect relation.

# CONTINUING EDUCATION

12 graduates reported continuing education. Continuing education includes those pursuing graduate and professional school, or further studies including a second bachelor's degree, certifications, or specialized training. Below are details on continuing education trends among those in this category.

## MAJOR RELATION

Among the 12 reporting continuing education, 2 indicated whether their major was directly related to their program. 50% (1/2) reported direct relation and 50% (1/2) reported indirect relation.

## DEGREE LEVEL

Among the 12 reporting continuing education, 6 indicated the degree level they are pursuing. 66.7% (4/6) are pursing a master's degree, and 33.3% (2/6) are pursuing a doctorate degree.

# CONTINUING EDUCATION (cont'd)

## PROGRAM ACCEPTANCE RATE

Among the 13 reporting continuing education, 7 reported the number of program acceptances they received.  28.6% (2/7) received three (3) acceptances, and 28.6% (2/7) received four (4) or more acceptances.

## FUTURE PLANS FOR STUDY

Among the Class of 2019 graduates responding to the survey, 16 indicated they were planning on (if not actively) pursuing further degrees in the future.  Additionally, 18 indicated their plans and timeline for beginning graduate school.  Below is a breakdown on these data points.

| GRAD PLANS HIGHEST DEGREE | COUNT | PERCENT |
|---|---|---|
| MASTERS | 15 | 94.0% |
| OTHER | 1 | 6.0% |
| Grand Total | 16 | 100.0% |

| GRAD PLANS TIMELINE | COUNT | PERCENT |
|---|---|---|
| NO PLANS | 5 | 27.8% |
| PLAN WITHIN 2 YEARS | 7 | 38.9% |
| PLAN WITHIN 4 YEARS | 5 | 27.8% |
| PLAN WITHIN 6 YEARS | 1 | 5.6% |
| Grand Total | 18 | 100.0% |

# INTERNSHIPS AND PREPARATION

## INTERNSHIP PARTICIPATION

Among the Class of 2019 graduates responding to the survey, 52 indicated how many semesters they participated in an internship experience.  63.5% (33/52) participated in an internship for at least one semester during their time at TCNJ.

| INTERNSHIP PARTICIPATION ▼ | COUNT ▼ | PERCENT ▼ |
|---|---|---|
| Did not participate | 19 | 36.5% |
| One | 12 | 23.1% |
| Two | 15 | 28.8% |
| Three | 5 | 9.6% |
| Four or more | 1 | 1.9% |
| TOTAL | 52 | 100.0% |

## CAREER AND GRADUATE SCHOOL PREPARATION

Among the Class of 2019 graduates responding to the survey, 2 rated their level of graduate school preparation. 100% (2/2) rated their preparation as above average or excellent. 18 respondents rated their level of preparation for employment, where 66.7% (12/18) rated their preparation as above average or excellent.

| PREPARATION | EXCELLENT | ABOVE AVERAGE | AVERAGE | TOTAL | REPORTING |
|---|---|---|---|---|---|
| PREPARENDESS FOR GRADUATE SCHOOL | 50.0% | 50.0% | | 100.0% | 2 |
| PREPARATION FOR EMPLOYMENT | 27.8% | 38.9% | 33.3% | 100.0% | 18 |

## ADDITIONAL DETAILS ON EMPLOYMENT AND CONTINUING EDUCATION

Below are additional details on employers and continuing education institutions when 2 or were more reported.

| TCNJ MAJOR | JOB FUNCTION | EMPLOYER |
| --- | --- | --- |
| **BIOMEDICAL ENGINEERING** | **11 REPORTED** | **MEDIAN SALARY $69,999** |
| TCNJ MAJOR | JOB FUNCTION | EMPLOYER |
| Biomedical Engineering | Research | Becton Dickinson |
| Biomedical Engineering | Engineering | DDL Inc |
| Biomedical Engineering | Data Analytics | Eli Lilly and Company |
| Biomedical Engineering | Business | FDM Group |
| Biomedical Engineering | Information Technology | HCF Compliance: Healthcare Facility Compliance Corporation |
| Biomedical Engineering | Engineering | Immunomedics |
| Biomedical Engineering | Engineering | Merit Medical |
| Biomedical Engineering | Engineering | Precision Metal Machining Inc. |
| Biomedical Engineering | Engineering | RWJBarnabas Health |
| Biomedical Engineering | Engineering | Sterling Medical Devices |
| Biomedical Engineering | Engineering | Stryker |
| **CIVIL ENGINEER** | **17 REPORTED** | **MEDIAN SALARY $62,500** |
| TCNJ MAJOR | JOB FUNCTION | EMPLOYER |
| Civil Engineer | Engineering | Department of Defense |
| Civil Engineer | Engineering | Dewberry |
| Civil Engineer | Engineering | Dewberry |
| Civil Engineer | Engineering | Langan |
| Civil Engineer | Engineering | Maser Consulting |
| Civil Engineer | Engineering | McLaren Engineering Group |
| Civil Engineer | Engineering | McLaren Engineering Group |
| Civil Engineer | Engineering | Michael Baker Intl. |
| Civil Engineer | Engineering | Modjeski and Masters |
| Civil Engineer | Engineering | Monmouth County Engineering |
| Civil Engineer | Engineering | Naik Consulting Group, P.C. |
| Civil Engineer | Engineering | NJ Turnpike Authority |
| Civil Engineer | Engineering | Northeast remsco construction |
| Civil Engineer | Engineering | Stantec |
| Civil Engineer | Engineering | Whiting-Turner Contracting Company |
| Civil Engineer | Engineering | WSP USA |
| Civil Engineer | Engineering | WSP USA |
| **COMPUTER ENGINEERING** | **8 REPORTED** | **MEDIAN SALARY $72,500** |
| TCNJ MAJOR | JOB FUNCTION | EMPLOYER |
| Computer Engineering | Engineering | Cognizant |
| Computer Engineering | Engineering | JBT |
| Computer Engineering | Engineering | JPMorgan Chase & Co. |
| Computer Engineering | Computer Science | L3Harris |
| Computer Engineering | Engineering | Oracle |
| Computer Engineering | Engineering | ORBCOMM |
| Computer Engineering | Engineering | SciTec, Inc. |
| Computer Engineering | Computer Science | Stealthbits |
| **ELECTRICAL ENGINEERING** | **6 REPORTED** | **MEDIAN SALARY $69,999** |
| TCNJ MAJOR | JOB FUNCTION | EMPLOYER |
| Electrical Engineering | Engineering | BAE Systems |
| Electrical Engineering | Engineering | BAE Systems |
| Electrical Engineering | Business | Bloomberg LP |
| Electrical Engineering | Engineering | Linearizer Technologies |
| Electrical Engineering | Engineering | Lockheed Martin |
| Electrical Engineering | Engineering | Lockheed Martin |
| **ENGINEERING SCIENCE** | **2 REPORTED** | **MEDIAN SALARY $54,999** |
| TCNJ MAJOR | JOB FUNCTION | EMPLOYER |
| Engineering Science | Data Analytics | Verizon |
| Engineering Science (Eng Mgmt) | Administrative | Consolidated Edison, Inc. |
| **MECHANICAL ENGINEERING** | **14 REPORTED** | **MEDIAN SALARY $62,500** |
| TCNJ MAJOR | JOB FUNCTION | EMPLOYER |
| Mechanical Engineering | Engineering | Combat Capabilities Development Command Armaments Center |

| Mechanical Engineering | Engineering | CoolSys Energy Design |
|---|---|---|
| Mechanical Engineering | Engineering | DC Fabricators Inc |
| Mechanical Engineering | Business | Frauscher Sensor Technology USA |
| Mechanical Engineering | Engineering | Kiewit |
| Mechanical Engineering | Administrative | LaFrance Corp |
| Mechanical Engineering | Business | MARCo Technologies LLC. |
| Mechanical Engineering | Engineering | NAVAIR |
| Mechanical Engineering | Engineering | PSE&G |
| Mechanical Engineering | Engineering | Siemens |
| Mechanical Engineering | Engineering | Siemens |
| Mechanical Engineering | Engineering | Structured Materials Industries Inc |
| Mechanical Engineering | Engineering | The Knotts Company |
| Mechanical Engineering | Engineering | Volvo Group |
| **TECHNOLOGY EDUCATION** | **2 REPORTED** | **MEDIAN SALARY $49,999** |
| **TCNJ MAJOR** | **JOB FUNCTION** | **EMPLOYER** |
| Technology Education | Education | Hilltop Country Day school |
| Technology Education | Education | West Windsor-Plainsboro Regional School District |

| FINAL TCNJ MAJOR | CE-INSTITUTION OVERALL |
|---|---|
| **BIOMEDICAL ENGINEERING** | **4 REPORTED** |
| **TCNJ MAJOR** | **INSTITUTION** |
| Biomedical Engineering | Rutgers University |
| Biomedical Engineering | Stevens Institute of Technology |
| Biomedical Engineering | Syracuse University |
| Biomedical Engineering | Wake Forrest |
| **CIVIL ENGINEER** | **3REPORTED** |
| **TCNJ MAJOR** | **INSTITUTION** |
| Civil Engineer | Stevens Institute of Technology |
| Civil Engineer | Villanova University |
| Civil Engineer | Villanova University |