# December 2018 Undergraduate Future Plans Survey
# College of Engineering
# Summary Report

This report presents summary results from the December 2018 Undergraduate Future Plans Survey for departments in the College of Engineering, followed by summary information on employment and further education for the college as a whole.

## Highlights for the College of Engineering

- 62% of seniors in COE graduating in fall 2018 responded to the survey
- 62% of respondents in COE said they had obtained a full-time position
- COE graduates with full-time employment (excluding internships) reported an average starting salary of $65,540 (median = $63,750)
- 75% of COE graduates with full-time employment said they would be working in North Carolina (58% in the Research Triangle Area)
- 15% of respondents in COE indicated they were planning to go to graduate/professional school in the year after graduation
- 80% of COE graduates with definite plans for graduate/professional school said they would be attending a school in North Carolina

## Department Summaries

The following table provides summary statistics for December 2018 graduates in each of the College of Engineering departments. It includes the number of students in the department who graduated in December 2018 and the number of those students who submitted the Undergraduate Future Plans Survey. It also includes the number of students who indicated that at the time of the survey they had already accepted a full-time position (including military and volunteer work [e.g., Peace Corps]), and the number who indicated they were either attending or planning on attending graduate or professional school in the coming year. Finally, it includes summary statistics on the self-reported salaries of those having accepted full-time employment.

**Table 1: Department Summaries**

| Department | Survey Population | Survey Respondents | Response Rate | N Full Time Job | N Grad/Prof School* | 25th Percentile Salary | Median Salary | 75th Percentile Salary | Average Salary | N Reporting Salary |
|---|---|---|---|---|---|---|---|---|---|---|
| Biomedical Engineering | 6 | 6 | 100.0% | 2 | 2 | ** | ** | ** | ** | 2 |
| Chemical Engineering | 18 | 11 | 61.1% | 8 | 1 | 70,000 | 72,500 | 77,500 | 71,875 | 8 |
| Civil, Construction, and Environmental Engineering | 64 | 40 | 62.5% | 33 | 3 | 56,250 | 61,250 | 61,250 | 56,818 | 33 |
| Computer Science | 79 | 33 | 41.8% | 21 | 2 | 68,750 | 76,250 | 86,250 | 76,382 | 19 |
| Electrical and Computer Engineering | 81 | 77 | 95.1% | 45 | 15 | 61,250 | 66,250 | 73,750 | 67,406 | 40 |
| Fitts Dept Indust & Syst Engr | 22 | 18 | 81.8% | 9 | 5 | 58,750 | 63,750 | 63,750 | 61,806 | 9 |
| Materials Sci & Engr | 3 | . | . | . | . | ** | ** | ** | ** | . |
| Mechanical and Aerospace Engineering | 71 | 27 | 38.0% | 14 | 4 | 61,250 | 66,250 | 71,250 | 64,375 | 14 |
| Nuclear Engineering | 1 | 1 | 100.0% | . | . | ** | ** | ** | ** | . |
| COE Overall | 345 | 213 | 61.7% | 132 | 32 | 58,750 | 63,750 | 71,250 | 65,540 | 125 |

*Includes all students planning on going to graduate/professional school in the coming year, including those who have been accepted to graduate/professional school and know where they will be going as well as those who have been accepted to at least one school but have not yet finalized their plans, those who have applied but have not yet been accepted, and those who have not yet applied but plan to do so.

**Statistics on salary information for those departments with fewer than 4 respondents reporting their salary have been excluded from the table.

## Full-Time Employment (college overall)

**Table 2: Name of Company/Organization**

| | N |
|---|---|
| AECOM | 1 |
| AKG of America | 1 |
| Accenture | 1 |
| Advanced Micro Devices | 1 |
| Aeva Labs | 1 |
| Allscripts | 1 |
| Amazon | 1 |
| American Tower | 1 |
| Andritz | 1 |
| Apex Tool Group | 1 |
| Atkins | 1 |
| Axonsource | 1 |
| Balfour Beatty Construction | 1 |
| Barry Wehmiller Design Group | 1 |
| Booth and Associates | 1 |
| Brasfield & Gorrie | 1 |
| Brock Solutions | 1 |
| Brown and Caldwell | 1 |
| Campus Outreach | 1 |
| Caterpillar | 1 |
| Chambers Engineering | 1 |
| Cisco | 1 |
| Corning Incorporated | 1 |

**Table 2: Name of Company/Organization, *continued***

| | N |
|---|---|
| Cummins, Inc | 1 |
| DPR Construction | 2 |
| Deloitte | 1 |
| Dragados-USA | 1 |
| DuPont | 1 |
| Duke Energy | 2 |
| ETS | 1 |
| Eaton Corporation | 1 |
| Edgecombe-Martin County EMC | 1 |
| Elster/Honeywell through EASi Engineering | 1 |
| Engine Systems Inc. | 1 |
| Engineering Tech Associates | 1 |
| Epic | 1 |
| ExxonMobil | 1 |
| Facebook | 2 |
| Fidelity Investments | 4 |
| Ford | 1 |
| HCL America | 1 |
| HCL Technologies | 1 |
| HNTB | 1 |
| HYDAC | 1 |
| Hallam ICS | 1 |
| Holocene Clean Energy | 1 |
| Honeywell | 1 |

**Table 2: Name of Company/Organization, *continued***

| | N |
|---|---|
| Hughes | 1 |
| IBM | 3 |
| InspectionXpert | 1 |
| Insteel Wire Product | 1 |
| JE Dunn Construction Company | 1 |
| Jacobs Engineering | 1 |
| Kimley-Horn | 1 |
| LJB | 1 |
| Lockheed Martin | 1 |
| Lynch Mykins | 1 |
| Martin Marietta | 1 |
| Merck | 1 |
| MetLife | 1 |
| Microsoft | 2 |
| Mott MacDonald | 2 |
| N/A | 1 |
| NAVAIR | 2 |
| NV5 | 1 |
| Newport News Shipbuilding | 1 |
| Novozymes | 1 |
| Optima Engineering | 1 |
| Packaging Corporation of America | 1 |
| Patrick McCarthy Construction | 1 |
| Peace Corps | 1 |

**Table 2: Name of Company/Organization, *continued***

| | N |
|---|---|
| Pentair Pool and Aquatics | 1 |
| Perahealth, Inc. | 1 |
| Phononic | 1 |
| Polo Ralph Lauren | 1 |
| Powersecure | 1 |
| Pritech | 1 |
| Qorvo | 1 |
| RGD Project Management | 1 |
| RMF Engineering | 1 |
| RS&H | 2 |
| Robert Bosch GmbH | 1 |
| RoviSys | 1 |
| SAS | 5 |
| Schneider Electric | 1 |
| Schunk | 1 |
| Southern Precision Spring | 1 |
| Stantec | 1 |
| Student Conservation Association | 1 |
| Sunrise Technologies | 1 |
| Swinerton Renewable Energy | 1 |
| TGS Engineers | 1 |
| Tanium | 1 |
| Tapworks | 1 |
| The Dow Chemical Company | 1 |

**Table 2: Name of Company/Organization, *continued***

| | N |
|---|---|
| Timmons Group | 2 |
| Triune Electric | 1 |
| US Air Force | 2 |
| US Department of Defense | 1 |
| US Navy | 1 |
| United Launch Alliance | 1 |
| Universal Creative | 1 |
| Volkert | 1 |
| Walls Engineering | 1 |
| Whiting-Turner Contracting | 1 |
| Willis Engineers | 1 |
| WillowTree Apps | 1 |
| Xylem | 1 |

**Table 3: Location of Company (state)**

| | N | % |
|---|---|---|
| North Carolina | 98 | 75.4 |
| Georgia | 3 | 2.3 |
| Tennessee | 3 | 2.3 |
| Washington | 2 | 1.5 |
| District of Columbia | 2 | 1.5 |
| Texas | 2 | 1.5 |
| South Carolina | 2 | 1.5 |
| Virginia | 2 | 1.5 |
| California | 2 | 1.5 |

**Table 3: Location of Company (state), *continued***

| | N | % |
|---|---|---|
| Maryland | 2 | 1.5 |
| Mississippi | 2 | 1.5 |
| Wisconsin | 1 | 0.8 |
| Louisiana | 1 | 0.8 |
| Idaho | 1 | 0.8 |
| Pennsylvania | 1 | 0.8 |
| New York | 1 | 0.8 |
| Colorado | 1 | 0.8 |
| Florida | 1 | 0.8 |
| Not applicable - Working remotely | 1 | 0.8 |
| Not sure | 2 | 1.5 |

**Table 4: Region of Company (inside/outside NC Triangle)**

| | N | % |
|---|---|---|
| Triangle | 74 | 58.3 |
| Outside NC | 31 | 24.4 |
| Other NC | 22 | 17.3 |

**Table 5: Job Title**

| | N |
|---|---|
| Accounts Specialist | 1 |
| Airfield Civil Engineer | 1 |
| Applications Engineer | 1 |
| Assistant Preconstruction Manager | 1 |
| Associate | 1 |
| Associate Engineer | 2 |

**Table 5: Job Title, *continued***

| | N |
|---|---|
| Associate IT Software Developer | 1 |
| Associate Investigator | 1 |
| Associate Software Developer | 2 |
| Associate Software Developer in Test | 1 |
| Associate Software Engineer | 1 |
| Associate Systems Engineer | 1 |
| Bridge Engineer | 1 |
| Business Technology Analyst | 1 |
| Campus Outreach Staff | 1 |
| Chief Technical Officer & Cofounder | 1 |
| Civil Analyst | 1 |
| Civil Engineer | 1 |
| Cognitive and Analytics Consultant | 1 |
| Community Health Promoter | 1 |
| Construction Administration | 1 |
| Contamination Control Engineer Rocket Scientist Level 1 | 1 |
| Cryptologic Computer Scientist | 1 |
| Data Engineer | 1 |
| Design Engineer | 1 |
| Designer | 1 |
| EDP Engineer | 1 |
| EIT | 1 |
| Electrical Design Engineer | 1 |
| Electrical Designer | 2 |

**Table 5: Job Title, *continued***

| | N |
|---|---|
| Electrical Engineer Associate | 1 |
| Electrical Engineer for Aviation Systems | 1 |
| Engineer | 2 |
| Engineer I | 3 |
| Engineer in Training | 1 |
| Engineering Associate | 1 |
| Ensign | 1 |
| Entry Level Civil Engineer | 1 |
| Environmental Educator | 1 |
| Field Application Engineer | 1 |
| Field Engineer | 3 |
| Field Service Engineer | 1 |
| Firmware Test Engineer 1 | 1 |
| Global Engineering Solutions Rotational Program | 1 |
| Industrial Engineer 1 | 1 |
| Information System Specialist | 1 |
| Intern | 1 |
| Junior Engineer | 2 |
| Junior Environmental Engineer | 1 |
| Junior Level Firmware Tester | 1 |
| Junior Software Developer | 1 |
| Junior Software Tester | 1 |
| Leadership Development Program Associate | 1 |
| Line Engineer | 1 |

**Table 5: Job Title, *continued***

| | N |
|---|---|
| Logistics Engineer | 1 |
| Manufacturing Engineer | 2 |
| Materials Manager | 1 |
| Mechanical Designer | 1 |
| Mechanical Engineer | 1 |
| N/A | 1 |
| Network Engineer | 1 |
| Owner/ Managing Member | 1 |
| Performance and Capacity Engineer | 1 |
| Pilot | 1 |
| Process Control Engineer | 1 |
| Process Engineer | 2 |
| Process Engineer I | 1 |
| Procurement Analyst | 1 |
| Product Development Engineer | 1 |
| Production Engineer | 1 |
| Program Manager | 1 |
| Project Engineer | 6 |
| Project Engineer I | 3 |
| Project Manager/Estimator | 1 |
| Protection and Controls Engineer | 1 |
| Quality Assurance Analyst | 1 |
| RF Capacity Engineer | 1 |
| Roadway Design Engineer | 1 |

**Table 5: Job Title, *continued***

| | N |
|---|---|
| Roadway Engineer | 1 |
| Rotational Engineer | 1 |
| Sales Engineer | 1 |
| Salesforce Test Engineer | 1 |
| Software Developer | 4 |
| Software Engineer | 7 |
| Software Engineer E1 | 1 |
| Software Test Engineer | 1 |
| Sr. Associate IT Software Developer | 1 |
| Staff Engineer | 1 |
| Staff, Process Mechanical Engineering | 1 |
| Structural Engineer I | 1 |
| Student Pilot | 1 |
| Systems Analyst | 1 |
| Systems Engineer | 2 |
| Technical Architect | 1 |
| Technical Problem Solver | 1 |
| Technical Sales | 1 |
| Technology Analyst | 1 |
| Transportation Engineer | 1 |
| Validation Engineer | 2 |
| Verifications Engineer | 1 |

**Table 6: Resources Used to Help Get/Locate Job***

| | N | % |
|---|---|---|
| Internship/externship | 75 | 56.8 |
| Career fair at NC State | 42 | 31.8 |
| Personal connection(s) within the company | 28 | 21.2 |
| Family/friends/classmates/co-workers | 28 | 21.2 |
| Applied for job via ePack | 27 | 20.5 |
| Co-op experience | 24 | 18.2 |
| LinkedIn | 20 | 15.2 |
| On-campus interviewing | 19 | 14.4 |
| Campus or college career center | 17 | 12.9 |
| Employer info session on campus | 8 | 6.1 |
| Employer found resume on ePack | 7 | 5.3 |
| Internet: Other | 6 | 4.5 |
| Faculty member or found job listing in an NC State dept | 5 | 3.8 |
| Professional society | 4 | 3.0 |
| Consultation with NC State Career Counselor/Coach | 3 | 2.3 |
| Student teaching experience | 3 | 2.3 |
| Volunteer work | 2 | 1.5 |
| Staffing agency | 2 | 1.5 |
| Career fair off campus | 1 | 0.8 |
| Other | 6 | 4.5 |

*Respondents could select more than one resource.

## Further Education (college overall)

**Table 7: Status for Graduate/Professional School Attendance (among those planning to attend)**

| | N | % |
|---|---|---|
| Have been accepted and know where I'm going | 20 | 62.5 |
| Have been accepted but undecided | 2 | 6.3 |
| Have applied, but not yet been accepted | 10 | 31.3 |
| Have not applied but plan to do so within the next year | 0 | 0.0 |

Information provided in the tables below is collected and reported only for respondents who indicated that at the time of the survey they had been accepted to graduate/professional school and knew where they would be going.

**Table 8: Name of Graduate/Professional School Students will be Attending**

| | N |
|---|---|
| George Washington University | 1 |
| Georgia Institute of Technology | 1 |
| NC State University | 16 |
| The Ohio State University | 1 |
| Tokyo Institute of Technology | 1 |

**Table 9: Location of Graduate/Professional School Students will be Attending**

| | N | % |
|---|---|---|
| North Carolina | 16 | 80.0 |
| District of Columbia | 1 | 5.0 |
| Georgia | 1 | 5.0 |
| Ohio | 1 | 5.0 |
| Outside United States | 1 | 5.0 |

**Table 10: Type of Degree***

| | N | % |
|---|---|---|
| Master's | 18 | 90.0 |
| Doctoral | 2 | 10.0 |
| Professional | 1 | 5.0 |

*Respondents could select more than one degree.

**Table 11: Master's Degree**

| | N |
|---|---|
| ABM | 1 |
| MCRP | 2 |
| ME | 3 |
| MIE | 1 |
| MS | 7 |
| MSA | 1 |
| MSENE | 1 |
| MSME | 2 |

**Table 12: Doctoral Degree**

| | N |
|---|---|
| PhD | 2 |

**Table 13: Professional Degree**

| | N |
|---|---|
| OD | 1 |

**Table 14: Academic Program***

| | N |
|---|---|
| Aerospace Engineering | 1 |
| CE | 1 |
| CPE | 2 |
| Civil Engineering | 1 |
| Computer Engineering / Computer Architecture | 1 |
| Computer Science | 1 |
| ECE | 1 |
| ESPE | 1 |
| Electrical Engineering | 2 |
| Environmental Engineering | 1 |
| Industrial Engineering | 1 |
| Industrial and Systems Engineering | 1 |
| Integrated Manufacturing Systems Engineering Masters Degree | 1 |
| Masters of Science in Analytics | 1 |
| Mechanical Engineering | 2 |
| Optometry | 1 |
| Structural Engineering | 1 |

*Academic program has not been cleaned. Responses are verbatim.

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