

## **Dec 2019 Undergraduate Future Plans Survey College of Engineering Summary Report**

This report presents summary results from the Dec 2019 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**

- 53% of seniors in COE graduating in fall 2019 responded to the survey
- 62% of respondents in COE said they had obtained a full-time position by graduation
- COE graduates with full-time employment (excluding internships) reported an average starting salary of \$71,223 (median = \$71,250)
- 72% of COE graduates with full-time employment said they would be working in North Carolina (51% in the Research Triangle Area)
- 19% of respondents in COE indicated they were planning to go to graduate/professional school in the year after graduation
- 92% 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 Dec 2019 graduates in each of the College of Engineering departments. It includes the number of students in the department who graduated in Dec 2019 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	7	.	.	.	.	**	**	**	**	.
Chemical Engineering	8	2	25.0%	1	.	**	**	**	**	1
Civil, Construction, and Environmental Engineering	46	27	58.7%	19	2	61,250	63,750	66,250	63,224	19
College of Engineering Dean's Office	2	.	.	.	.	**	**	**	**	.
Computer Science	63	36	57.1%	21	8	73,750	81,250	91,250	81,806	18
Electrical and Computer Engineering	61	37	60.7%	22	11	68,750	71,250	81,250	74,286	21
Fitts Dept of Industrial and Systems Engineering	22	16	72.7%	13	1	66,250	71,250	81,250	73,942	13
Materials Sci & Engr	4	2	50.0%	.	2	**	**	**	**	.
Mechanical and Aerospace Engineering	89	38	42.7%	23	7	61,250	68,750	71,250	63,274	21
Nuclear Engineering	1	1	100.0%	.	.	**	**	**	**	.
COE Overall	303	159	52.5%	99	31	63,750	71,250	76,250	71,223	93

\*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
Accenture	1
Advanced Civil Design	1
Allstate	1
Amazon.com, Inc.	1
Analog Devices Inc.	1
Archer Western Contractors	1
B-Cubed	1
BL Companies	1
BSH Home Appliances Co.	1
Barrett, Woodyard & Associates	1
Baseline Controls	1
BlackRock	1
Boeing	1
CACI International Inc.	1
CDM Smith	1
CITI, LLC	1
Caterpillar Inc.	1
Cisco Systems	1
Clark Patterson Lee	1
Collins Aerospace	1
Deloitte	1
Eaton Corporation	1

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

	N
Engineering Tech Associates, PA	1
Ernst & Young	1
Extron Electronics	2
ExxonMobil	1
Fidelity Investments	3
Freese and Nichols, Inc.	1
Fujifilm Diosynth Biotechnologies USA Inc.	1
Gannett Fleming	1
Garmin Ltd.	1
General Dynamics	1
Georgia-Pacific	1
HCL Technologies	1
Herbert Scoville Jr. Peace Fellowship	1
Hewlett Packard Enterprise	1
Hipp Engineering & Consulting Inc.	1
Honda Aircraft Company	1
IBM	3
IMC Financial Markets	1
Industrial Automated Systems	1
Inoku Packaging	1
Invisors	1
JE Dunn Construction	1
Jacobs Engineering Group	1
Kadro Solutions Inc.	1

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

	N
Kimley-Horn	1
LexisNexis	3
Longent LLC	1
Martin Marietta Inc.	1
Mott MacDonald	1
NC State University	1
Naval Air Systems Command	3
NetApp	1
Newell Brands	1
Nike	1
North Carolina Department of Transportation	2
Optum	1
Pendo	1
Plexus	2
Qorvo	1
RJ Reynolds Tobacco Company	1
RK&K	1
Ramey Kemp & Associates, Inc.	1
Republic Wireless	1
Reynolds, Smith & Hills	1
SAS Institute	1
Sandia National Laboratories	1
SpaceX	1
Stanford White	2

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

	N
Synopsys	1
Tencent	1
The Adams Company	1
The Vanguard Group	1
The Wooten Company	1
Timmons Group, Inc.	2
Unites States Air Force	1
Vanasse Hangen Brustlin, Inc.	1
Verizon	2
Western Digital	1
WillowTree	1
WithersRavenel	1

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

	N	%
North Carolina	68	71.6
Virginia	3	3.2
Massachusetts	2	2.1
California	2	2.1
Georgia	2	2.1
Not sure	2	2.1
District of Columbia	2	2.1
Tennessee	1	1.1
Connecticut	1	1.1
New York	1	1.1

	N	%
Alabama	1	1.1
Louisiana	1	1.1
Texas	1	1.1
Kansas	1	1.1
Illinois	1	1.1
New Jersey	1	1.1
Oregon	1	1.1
New Mexico	1	1.1
Florida	1	1.1
Colorado	1	1.1
Minnesota	1	1.1

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

	N	%
Triangle	48	50.5
Outside NC	27	28.4
Other NC	20	21.1

**Table 5: Job Title**

	N
Analyst	1
Applications Engineer	2
Associate RF Engineer	1
Associate Software Developer	1
Associate Software Engineer	3
Business Technology Analyst	1
Cloud Garage Developer	1
Consulting Analyst	1
Controls Engineer 1	1
Develop Engineer	1
EIT	1
Electrical Controls Engineer	1
Electrical Designer	1
Electrical Engineer	2
Electrical Engineer I	1
Electronics Engineer	1
Embedded Software Engineer I	1
Embedded Systems Engineer	1
Energy and Corrosion Engineer	1
Engineer	2
Engineer 1 - Coastal	1
Engineer I	1
Firmware Engineer	1
Full Stack UI Software Developer	1

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

	N
Herbert Scoville Fellow	1
Industrial Engineer	1
Innovations Engineer III	1
Junior Structural Engineer	1
Launch Engineer	1
Leadership Development Program	1
Managing Partner	1
Manufacturing Planning Associate	1
Mechanical Designer	1
Mechanical Engineer	1
Mechanical Engineer I	1
Operations Leadership & Technical Development Program 1	1
Optical Engineer	1
Process Engineer	1
Process Improvement Engineer	1
Product Test Engineer	1
Project Controls Engineer	1
Project Engineer	2
Project Engineer I	1
Project Manager	1
Research and Development	1
Roadway Design Associate	1
Rotor Systems Engineer	1
Senior Analyst	1

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

	<b>N</b>
Site/Civil Engineer	1
Software Developer	3
Software Engineer	12
Software Engineer I	2
Solutions Architect	1
Solutions Engineer	1
Space Operations Officer	1
Staff Engineer	1
Staff Professional	1
Structural Engineer 1	1
Supply Chain Engineer	1
Supply Chain/Manufacturing Leadership Program	1
Systems Engineer	3
Tax Technology and Transformation Staff	1
Technology Analyst	1
Technology Development Program	1
Technology Leadership Development Program	1
Technology Support Technician	1
Test Engineer	1
Testing Engineer	1
Traffic Analyst	1
Traffic Engineering Associate	1
Transportation Engineer	1
Transportation Engineering Associate	2

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

	N	%
Internship/externship	59	59.6
Career fair at NC State	42	42.4
On-campus interviewing	22	22.2
LinkedIn	22	22.2
Applied for job via ePack	21	21.2
Campus or college career center	19	19.2
Co-op experience	18	18.2
Personal connection(s) within the company	15	15.2
Family/friends/classmates/co-workers	14	14.1
Internet: Other	13	13.1
Employer info session on campus	10	10.1
Faculty member or found job listing in an NC State dept	7	7.1
Professional society	7	7.1
Consultation with NC State Career Counselor/Coach	5	5.1
Volunteer work	5	5.1
Employer found resume on ePack	4	4.0
Staffing agency	3	3.0
Career fair off campus	2	2.0
Student teaching experience	2	2.0
Other	4	4.0

\*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	25	83.3
Have been accepted but undecided	1	3.3
Have applied, but not yet been accepted	3	10.0
Have not applied but plan to do so within the next year	1	3.3

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
Georgia Institute of Technology	2
NC State University	23

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

	N	%
North Carolina	23	92.0
Georgia	2	8.0

**Table 10: Type of Degree Pursuing\***

	N	%
Master's	23	92.0
Doctoral	4	16.0

\*Respondents could select more than one degree.

**Table 11: Master's Degree**

	N
MCRP	1
MCS	1
ME	2
MS	12
MS, Computer Science	1
MS, ECE	2
MSIE	1
MSME	2
Master of Computer Engineering	1

**Table 12: Doctoral Degree**

**Table 13: Professional Degree**

**Table 14: Other Degree**

**Table 15: Academic Program\***

	N
Computer Engineering	1
Computer Science	6
Computer engineering	1
ECE - Computer Engineering	1
Electrical Engineering	7
Electrical Power Systems	1
Industrial and Systems Engineering	1
MAE	1
MS Civil Engineering - Structural Engineering Concentration	1
Masters in Computer Science	1
Mathematics	1
Mechanical Engineering	1
Mechanical Engineering MS	1
ee	1

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

**For more information on the Undergraduate Future Plans Survey contact:**

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