

## **May 2018 Graduate Future Plans Survey College of Engineering Summary Report**

This report presents summary results from the May 2018 Graduate Future Plans Survey for departments and types of degree programs 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**

- 72% of the doctoral and master's students in COE graduating in May 2018 responded to the survey
- 80% of doctoral respondents and 65% of master's respondents in COE report that they have secured full-time employment for the coming year
- COE graduates with full-time employment (excluding internships) report an average salary in the coming year of \$93,422 (median = \$92,500)
- 38% of COE graduates with full-time employment will be working in North Carolina (29% in the Research Triangle Area)
- 13% of master's students in COE report that they plan to return to graduate/professional school in the coming year
- 98% of master's students in COE with definite plans to return to graduate/professional school will be attending a school in North Carolina

## Department Summaries

The following two tables provide summary statistics for May 2018 graduates in the College of Engineering. Table 1 includes the number of graduate students in each department in the College of Engineering who graduated in May 2018 and the number of those students who submitted the Graduate Future Plans Survey. It also includes the number of students who indicated at the time of the survey that they would be working full-time, as well as the number of those who indicated they were either pursuing or planning to pursue another graduate or professional degree in the coming year. Finally, it includes summary statistics on the self-reported salaries of those who reported that they would be employed full-time. Table 2 provides the same summary statistics for May 2018 graduates in the College of Engineering by the type of degree program from which they graduated (i.e., doctoral or master's).

**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
College of Engineering Dean's Office	14	9	64%	7	2	57,500	72,500	77,500	71,071	7
Biomedical Engineering	3	1	33%	1	.	**	**	**	**	1
Chemical Engineering	29	19	66%	8	11	75,000	85,000	97,500	80,625	8
Civil, Construction, and Environmental Engineering	37	27	73%	18	3	67,500	72,500	82,500	76,944	18
Computer Science	178	141	79%	99	11	82,500	102,500	122,500	102,331	89
Electrical and Computer Engineering	170	115	68%	81	7	92,500	102,500	107,500	100,100	75
Fitts Dept Indust & Syst Engr	33	19	58%	10	1	47,500	60,000	72,500	58,750	10
Integrated Manufacturing Systems Engineering	3	2	67%	2	.	**	**	**	**	2
Materials Science and Engineering	13	12	92%	6	4	77,500	90,000	107,500	93,750	6
Mechanical and Aerospace Engineering	53	37	70%	22	2	70,000	82,500	95,000	82,750	20
Nuclear Engineering	9	7	78%	5	2	72,500	72,500	82,500	72,500	5
Operations Research	7	5	71%	3	1	**	**	**	**	3
COE Overall	549	394	72%	262	44	77,500	92,500	107,500	93,422	244

\*Includes all students planning on going to graduate/professional school in the coming year for another degree, including those who were currently enrolled as of the time of the survey or 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.

**Table 2: Degree Summaries**

Degree	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
Doctoral	63	44	70%	35	.	70,000	87,500	102,500	89,141	32
Master's	486	350	72%	227	44	77,500	92,500	107,500	94,068	212
COE Overall	549	394	72%	262	44	77,500	92,500	107,500	93,422	244

\*Includes all students planning on going to graduate/professional school in the coming year for another degree, including those who were currently enrolled as of the time of the survey or 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.

### Full-Time Employment (college overall)

**Table 3: Name of Company/Organization, Doctoral Degree Recipients**

	N
ABB	3
Anokiwave	1
Anton Paar USA	1
Apple	1
Ardaman and Associates	1
Bangladesh University of Engineering and Technology	1
BitSight Technologies	1
Cisco Systems	1
Corning Inc	1
Eaton Corporation	1
Framatome	1
Glen Raven Custom Fabrics	1
Google	1
Idaho National Laboratory	1
Jeddah University	1

**Table 3: Name of Company/Organization, Doctoral Degree Recipients, *continued***

	N
King Abdulaziz University	1
LinkedIn	1
Los Alamos National Laboratory	1
Modern Meadow	1
NC State University	7
Qualcomm	1
Tabuchi Electric Company of America Limited	1
Tsinghua University	1
US Environmental Protection Agency	1
University of Michigan	1
Vaughn & Melton	1
Zenomics Inc	1

**Table 4: Name of Company/Organization, Master's Degree Recipients**

	N
ANSYS Inc.	1
AWNC	1
Adient	1
Adobe	1
Advanced Micro Devices	1
Agero Inc	1
Amazon	2
Analog Devices	1
Apple	5
Arcadis	1
Arista Networks	3
Arm	1

**Table 4: Name of Company/Organization, Master's Degree Recipients, *continued***

	N
Arm Holdings	1
Arrow Electronics	1
Aruba Networks	1
Ascend Performance Materials	1
Audible	1
Automated Insights	1
Black & Veatch	1
Bloomberg	1
Bosch	1
Burns and McDonnell	1
CITI, LLC	1
Cadence Design Systems	1
Capital One	2
ChannelAdvisor	1
Cirrus Logic	2
Cisco Systems	1
Citrix	3
Clemson University	1
Cobham Advanced Electronics Solutions	1
Colorado Department of Transportation	1
ConnectWise	1
CoreCompete	1
Cummins Inc. (Rocky Mount Engine Plant)	1
Dell EMC	1
Deloitte	2
Deloitte Digital	1
Department of Defense	1

**Table 4: Name of Company/Organization, Master's Degree Recipients, *continued***

	N
Descartes Labs	1
Deutsche Bank	1
Dover	1
Duke Energy	1
Duke Health	1
Eastman Chemical Company	1
Echelon Diagnostics Inc.	1
Engineering Consulting Services (ECS)	1
Everest textile	1
Expedia	1
Facebook	2
General Electric	9
Geosyntec Consultants	1
Getzner	1
Goldman Sachs	1
Google	8
Greif	1
HCL	2
Hazen & Sawyer	1
Hughed	1
Hughes Network Systems	2
IBI Group of North Carolina	1
IBM	4
IXL Learning	1
Ingersoll Rand	1
Inmar	1
Integro Technologies	1

**Table 4: Name of Company/Organization, Master's Degree Recipients, *continued***

	N
Intel	9
Intuitive Surgical	1
John Deere	1
Johnson Controls	1
Juniper Networks	2
KBR	1
Kleinfelder	1
Koh Young Technology	1
Landing.AI	1
Larson Design Group	1
Lenovo	1
LexisNexis	3
LigaTrap Technologies	1
Lockheed Martin	1
Lowe's Companies	1
Marvell Semiconductors	2
Mathworks	1
Mc Dean	1
Medicago	1
Microsoft	5
N/A	1
NASA	3
NAVAIR	1
NC State University	3
NVIDIA	1
NetApp	3
Netease Games	1

**Table 4: Name of Company/Organization, Master's Degree Recipients, *continued***

	N
Newport News Shipbuilding	1
Nokia	1
Noregon, Inc	1
Northrop Grumman Corporation	1
Nuage Networks (Nokia)	1
Nutanix	4
Nvidia	1
Oasis Systems	1
Oath (Yahoo)	1
Oil servicing company	1
One Trust	1
OneTrust	1
PLUS AI	1
PayPal	1
Pfizer	1
Plexus	1
Pure Storage	1
Qorvo	1
Qualcomm	2
RK&K	1
Red Hat	6
Renesas Electronics	2
Riverbed Technology	1
SAS	2
Samsung	3
Savannah River Nuclear Solutions	1
Sciome LLC	1



**Table 4: Name of Company/Organization, Master's Degree Recipients, *continued***

	N
Secmation	1
SiFive	1
Synopsys	2
US Navy	2
UTC-Carrier Transicold	1
VF Corporation	1
VISA Inc.	1
VMware	7
Valassis Digital	1
Veracity	1
Volvo Group	1
Wake County Public School System	1
Westinghouse	1
WhitehatAI	2
XPO Logistics	1
Xometry, Inc.	1
Xylem	1

**Table 5: Location of Company (state), Doctoral Degree Recipients**

	N	%
North Carolina	17	55%
California	5	16%
Massachusetts	1	3%
Virginia	1	3%
Florida	1	3%
New York	1	3%
Washington	1	3%
Idaho	1	3%
New Mexico	1	3%
New Jersey	1	3%
Michigan	1	3%

**Table 6: Location of Company (state), Master's Degree Recipients**

	N	%
North Carolina	76	35%
California	48	22%
Texas	13	6%
Washington	10	5%
South Carolina	10	5%
Massachusetts	7	3%
Virginia	6	3%
Maryland	5	2%
New York	4	2%
New Hampshire	3	1%
Colorado	3	1%
Pennsylvania	3	1%
Georgia	3	1%

**Table 6: Location of Company (state), Master's Degree Recipients, *continued***

	N	%
Illinois	3	1%
District of Columbia	2	1%
Utah	2	1%
Florida	2	1%
Alabama	2	1%
New Jersey	1	0%
Missouri	1	0%
New Mexico	1	0%
Tennessee	1	0%
Oregon	1	0%
Iowa	1	0%
Arkansas	1	0%
Ohio	1	0%
North Dakota	1	0%
Not sure	4	2%

**Table 7: Region of Company (inside/outside NC Triangle), Doctoral Degree Recipients**

	N	%
Triangle	15	43%
Other NC	2	6%
Outside NC	18	51%

**Table 8: Region of Company (inside/outside NC Triangle), Master's Degree Recipients**

	N	%
Triangle	58	27%
Other NC	18	8%
Outside NC	139	65%

**Table 9: Job Title, Doctoral Degree Recipients**

	N
Advanced Process Controls Engineer	1
Assistant Professor	3
Consultant	1
Engineer	1
Engineer II	1
Hydraulic Engineer	1
Lead Developer	1
Materials Scientist	1
Mechanical Engineer	1
Postdoc	4
Postdoctoral Researcher	1
Postdoctoral Scholar	1
Product Development Engineer	1
Product Specialist	1
Professor	1
Project Engineer	1
Research Associate	1
Research Fellow	1
Research Scientist	3
Research and Product Development Engineer	1
Scientist	1
Senior Design Engineer	1
Senior Engineer	1
Senior Research Engineer	1
Senior Software Engineer	1
Software Engineer	2

**Table 10: Job Title, Master's Degree Recipients**

	N
AI Software Developer	2
ASIC Engineer	1
ASIC Engineer II	2
ASIC Hardware Engineering	1
Additive Manufacturing Engineer	1
Additive Manufacturing Partner Manager	1
Administrative Fellow	1
Aerospace Engineer (AST, Flight Structures)	1
Analog Design Engineer	1
Analyst	1
Application Engineer	2
Application Support Engineer	1
Applications Engineer	1
Applications Engineer II	1
Assembler	1
Assistant Engineer	1
Associate Process Engineer	1
Associate Software Developer	1
Associate Software Engineer	3
Business and Technology Analyst	1
CFD Testing Engineer	1
CPU Design Engineer	1
CPU Performance Architect	1
CPU Verification Engineer	1
Civil Engineer	2
Consultant	1

**Table 10: Job Title, Master's Degree Recipients, *continued***

	N
Controls Engineer	1
Corporate Applications Engineer	1
Data Analyst	2
Data Engineer	1
Data Science Intern	1
Data Scientist	2
Design Engineer	3
Design Engineer I	1
Design Engineer II	1
Design Verification Engineer	2
DevOps Developer	1
DevOps Intern	1
Developer	1
Development Engineer	1
Doctoral Candidate	1
Dye Specialist	1
Engineer	4
Engineering Architect	1
Engineering Consultant	1
Engineering Leadership Development Program	1
Engineering Manager	1
Entry Level Design Verification Engineer	1
Executive Audit Manager	1
Facilities Engineer	1
Firmware Engineer	1
Firmware Engineer II	1
Full Stack Software Developer	1

**Table 10: Job Title, Master's Degree Recipients, *continued***

	N
GPU Engineer	1
Geotechnical Project Manager	1
Graduate Design Engineer	1
Graduate Information Developer	1
Graduate Software Engineering	1
Hardware Verification Engineer	1
Industrial Process Specialist III	1
Intern	1
Java Developer	1
Lead Design Engineer	1
Lead Materials Engineer	1
Lead Structural Analyst	1
Leadership Development Program	1
Lecturer	1
MTS	1
MTS, Software	1
MTS-II Software	1
Machine Learning Engineer	1
Machine Learning and Computer Vision Engineer	1
Manufacturing Engineer	2
Manufacturing Engineer III	1
Marketing Associate	1
Mechanical Design Engineer	1
Mechanical Engineer	3
Member Technical Staff	1
Member of Technical Staff	9
Member of Technical Staff - III	1

**Table 10: Job Title, Master's Degree Recipients, *continued***

	N
Navy Pilot	1
Network Engineer	1
Network Software Engineer	1
Operations Research Analyst	1
Performance Architect	1
Power Systems Engineering Development Program Engineer	1
Product Engineer	1
Product Service Engineer	1
Production Engineer	1
Programmer Analyst	1
Project Controls Specialist	1
Project Engineer	4
Project Manager	1
Prototype Buyer	1
Quality Engineer	1
RA	1
RF Switch Designer	1
RF/Analog Engineer II	1
Research Aerospace Engineer	1
Research and Development	1
SOC Design Verification Engineer	3
SOC Validation Engineer	1
SOC Verification Engineer	1
Scientist II	1
Security and Electronic Systems Engineer	1
Senior Associate Software Engineer	1
Senior Design Engineer	1



**Table 10: Job Title, Master's Degree Recipients, *continued***

	N
Senior Engineer	2
Senior Process Engineer	1
Senior Software Developer	1
Senior Software Engineer	3
Soft Dev	1
Soft IP Application Engineer	1
Software Applications Engineer	1
Software Dev Engineer	1
Software Developer	5
Software Development Engineer	2
Software Development Engineer I	1
Software Engineer	39
Software Engineer II	4
Software Engineer III	1
Software R&D Engineer	1
Software Test Engineer	1
Solutions Engineer Principle	1
Staff Engineer	1
Structural Engineer	2
Structures Engineer	1
System Software Engineer	1
System Test Engineer	1
Systems Engineer	2
Systems Reliability Engineer	1
Technical Engineer	1
Technical Implementation Consultant	1
Technical Solutions Engineer	1

**Table 10: Job Title, Master's Degree Recipients, *continued***

	N
Test Engineer	1
Thermal Hydraulic Design Engineer	1
Thermal and Fluid Science Engineer	1
Verification Engineer	2

**Table 11: Resources Used to Help Get/Locate Job, by Degree Received\***

	COE Overall		Doctoral		Master's	
	N	%	N	%	N	%
Internet: LinkedIn	86	33%	6	17%	80	35%
Career fair at NC State	77	29%	0	0%	77	34%
Internship/externship	77	29%	10	29%	67	30%
Campus or college career center	53	20%	1	3%	52	23%
Family/friends/classmates/co-workers	43	16%	3	9%	40	18%
Co-op experience	39	15%	2	6%	37	16%
Applied for job via ePACK	32	12%	0	0%	32	14%
Optional Practical Training (OPT)	30	11%	8	23%	22	10%
Personal/professional connection(s) within the company	30	11%	9	26%	21	9%
NC State faculty member	27	10%	17	49%	10	4%
On-campus interviewing	22	8%	0	0%	22	10%
Consultation w/ NCSU Career Counselor/Coach	20	8%	0	0%	20	9%
Internet (Other)	18	7%	2	6%	16	7%
Employer info session on campus	13	5%	1	3%	12	5%
Professional association (members, conferences, publications, etc.)	12	5%	4	11%	8	4%
Student teaching experience	8	3%	2	6%	6	3%
Employer found resume on ePACK	5	2%	0	0%	5	2%
Career fair off campus	2	1%	1	3%	1	0%
Volunteer work	2	1%	0	0%	2	1%

**Table 11: Resources Used to Help Get/Locate Job, by Degree Received\*, continued**

	COE Overall		Doctoral		Master's	
	N	%	N	%	N	%
Staffing agency	2	1%	1	3%	80	35%
Clinical placement	0	0%	0	0%	77	34%
Other	2	1%	0	0%	67	30%

\*Respondents could select more than one resource.

\*\*Question was asked of those who indicated they would be employed full-time in a position they had obtained during their graduate program or at the time of graduation (i.e., excluding those who said they would be employed in a position they had obtained prior to beginning their graduation program).

### Further Education (college overall)

**Table 12: Status for Further Graduate/Professional School Attendance, Master's Degree Recipients (among those planning to attend)**

	N	%
Am already enrolled and pursuing the degree	32	73%
Have been accepted and know where I'm going	9	20%
Have been accepted but undecided	.	0%
Have applied, but not yet been accepted	.	0%
Have not applied but plan to do so within the next year	3	7%

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

**Table 13: Name of Graduate/Professional School Students will be Attending, Master's Degree Recipients**

	N
Dartmouth College	1
NC State University	40

**Table 14: Location of Graduate/Professional School Students will be Attending, Master's Degree Recipients**

	N	%
North Carolina	40	98%
New Hampshire	1	2%

\*Respondents could select more than one degree.

**Table 15: Type of Degree Pursuing, Master's Degree Recipients\***

	N	%
Master's	0	0%
Doctoral	41	100%
Professional	0	0%
Other	0	0%

\*Respondents could select more than one degree.

**Table 16: Doctoral Degree Pursuing, Master's Degree Recipients**

	N
PhD	41

**Table 17: Academic Program, Master's Recipients\***

	N
Aerospace Engineering	1
Applied Mathematics	1
CBE	1
CS	1
Chemical & Biomolecular Engineering	1
Chemical & Biomolecular Engineering	1
Chemical Engineering	5
Chemical and Biomolecular	1
Chemical and Biomolecular Engineering PhD Program	1
Chemical engineering	1

**Table 17: Academic Program, Master's Recipients\*, *continued***

	N
Civil Engineering	1
Computer Engineering	1
Computer Engineering PhD @ NCSU	1
Computer Science	7
Computer Science PHD	1
ECE	2
Electrical Engineering	1
Geospatial Analytics	1
Industrial engineering	1
Major - Civil, Minor - Statistics	1
Material Science and Enginnering	1
Materials Science and Engineering	1
Mechanical Engineering-PhD	1
Nuclear Engineering	2
Ph.D. Materials Science and Engineering	1
PhD - Electrical Engineering	1
computer science	2
engineering sciences-MSE	1

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

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

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