

May 2017 Future Plans Survey College of Engineering Summary Report

This report presents summary results from the May 2017 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.

Department Summaries

The following table provides summary statistics for May 2017 graduates in each of the College of Engineering departments. It includes the number of students in the department who graduated in May 2017 and the number of those students who submitted the 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 Reported Salary
COE Dean's Office	33	5	15.2%	3	1	**	**	**	**	3
Biomedical Engr	54	31	57.4%	12	13	53,750	63,750	67,500	58,021	12
Civil, Construction, and Envir Engr	88	59	67.0%	41	11	51,250	56,250	58,750	54,776	39
Chemical Engr	126	88	69.8%	49	16	63,750	71,250	73,750	68,207	46
Computer Science	109	53	48.6%	30	11	63,750	68,750	73,750	69,950	25
Electrical & Computer Engr	152	120	78.9%	71	23	61,250	66,250	71,250	65,904	65
Fitts Dept Indust & Syst Engr	53	34	64.2%	22	6	61,250	66,250	68,750	64,345	21
Mechanical & Aerospace Engr	171	107	62.6%	66	20	61,250	63,750	68,750	64,095	58
Materials Science & Engr	34	24	70.6%	8	11	37,500	55,000	63,750	49,688	8
Nuclear Engineering	34	21	61.8%	10	4	56,250	58,750	68,750	60,139	9
Total	854	542	63.5%	312	116	58,750	63,750	71,250	63,571	286

*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
ABB	1
AFL	1
AREVA	1
All Nippon Airways	1
Altec	1
Alternative Energy Systems Consulting	1
Amazon	2
American Airlines	1
Analog Devices, Inc	1
Anheuser-Busch	2
Apex Tool Group	1
Appealing Products Inc.	1
Archer Daniels Midland	1
ArchiveSocial	1
Armstrong Flooring	1
AvL Technologies	1
Avid Solutions	2
Avocode	1
Bandwidth	1
Barry Wehmiller Design Group	1
Baxter Healthcare Inc	1
Belcan Engineering	1
Black & Veatch	3

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

	N
Boeing	1
Booth and Associates LLC	1
Booz Allen Hamilton	1
Brady Services	1
Brady Trane	1
Brasfield & Gorrie	1
Brock Solutions	1
Bronto	1
Burns & McDonnell	2
CData Software	1
CRB	1
Camco Manufacturing	1
Cape Fear Engineering	1
Capital One	2
CaptiveAire Systems, Inc.	1
Center for Strategic and International Studies	1
Chick-fil-A	1
Cisco	7
Citrix	3
Clarkston Consulting	1
Clinical Sensors	1
ColeJenest & Stone	1
Collier Research Corporation	1
Corning	2
Credit Suisse	1

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

	N
Daikin Applied	1
Danis	1
Davis Civil Solutions	1
Dell EMC	1
Deloitte	4
Denso	6
Deutsche Bank	1
Device Solutions	1
Dewberry	3
Donnelley Financial Services	1
Dream Educational Development Organization	1
Duke	1
Duke Energy	7
Duke University	1
ENEC	1
EPIC Systems	1
EY	2
Eastman Chemical Company	2
Eaton	1
Ecolab	1
Epic Systems	3
Epic Technologies	1
Eurofins	1
Exxonmobil	1
Fidelity Investments	3

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

	N
Finrock DMC	1
Fluhrer Reed	1
Fred Smith Company	1
Frito-Lay	1
Fujifilm Diosynth	2
GE Oil and Gas	1
GHD Consulting	1
Genentech	1
General Dynamics	1
Georgia Pacific	1
Georgia Tech	1
GlaxoSmithKline	2
Gulfstream Aerospace	2
HNTB Corporation	1
Hallam-ICS	1
Hattori Racing Enterprises	1
Highland Industries	1
Hill-Rom	1
Honda Power Equipment	1
Honeywell	1
Hughes Network Systems	1
Huntington Ingall Industries	1
IAS	1
IBM	2
Idaho National Labs	1

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

	N
Imaginnovation	1
Indulor America, LP	1
Intel	1
International Paper	3
Intuitive Surgical	1
Inventure Civil	1
Ion Media	1
Itron	1
J & W Tools	1
J.S. Thompson Engineering, Inc.	1
JDA Software	1
JE Dunn Construction	1
James Hardie	1
Jilasoan	1
John Deere	1
KBI Biopharma	1
Kadro	1
Kimley-Horn and Associates	2
Kirlin Carolinas	1
Koolbridge Solar	1
L'Oreal USA	1
LORD Corporation	1
Lenovo	1
Liberty Mutual	1
Lighthouse Engineering	1

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

	N
Lithko Contracting	1
Lockheed Martin	2
Logos Technologies	1
Lowe's	1
Lynch Mykins	2
MC Dean	1
MCNC	1
MI Engineering	1
Maple Engineering	1
McCarthy Building Companies	1
Meet Central	1
Merck	6
Michael Baker International	1
Microsoft	1
Moen, Inc.	1
Moffatt and Nichol	1
Mohawk	1
N/A	2
NASA	1
NAVAIR	3
NAVSEA	2
NCDOT	1
NGK Ceramics	1
Nan Ya Plastics USA	2
National Unstruments	1

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

	N
Newell Brands	2
Nistica	1
Nixon Energy Solutions	1
Norfolk Southern	1
Northrop Grumman	3
Novozymes	1
ORNL	1
Optum	3
Parsons Engineering	1
Peace Corps	1
Pfizer	5
Pindrop Security	1
PointSource	1
Procter and Gamble	1
Providence Industrial Electronics Repair	1
Public Service Electric and Gas	1
Pureflow Inc.	1
Qgenda	1
RDU Paving	1
RK&K Engineering	1
RMF Engineering	2
Regan And Son Heating And Air	1
Revlon	1
Rhythcor	1
Rockwell Collins	3

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

	N
Rodgers Builders	1
RoviSys	3
Ryder	1
SABIC	1
SAS	2
SE Engineering, PC	1
SEPI Engineering	1
SKA Consulting Engineers	1
STV	1
Sabra Dipping Company	1
Sageworks	2
Sandia National Labs	1
Savannah River Remediation	1
Sensus	3
Seqirus	1
Siemens	2
Sikorsky	1
Skanska	1
Sonoco	1
Southwest Research Institute	2
Stewart Engineering Inc.	1
Teach For America	1
The Mitre Corporation	1
The Prometheus Group	1
TiVo	1

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

	N
Tindall Corporation	1
Trane	1
US Air Force	3
US Army	1
US Navy	9
Underwriter's Laboratories	1
Unifi Manufacturing Inc.	1
Untited Technologies	1
VieMetrics Inc.	1
Virtual Exchanges	1
Volvo Group	2
Volvo Trucks	2
Westinghouse	2
WillowTree	1
XinVivo	1

Table 3: Location of Company (state)

	N	%
North Carolina	186	62.2
South Carolina	13	4.3
Georgia	11	3.7
Tennessee	11	3.7
Virginia	10	3.3
Florida	10	3.3
Texas	9	3.0
Wisconsin	5	1.7

Table 3: Location of Company (state), continued

	N	%
Pennsylvania	4	1.3
District of Columbia	4	1.3
New Jersey	4	1.3
Maryland	4	1.3
Colorado	3	1.0
Mississippi	3	1.0
Washington	2	0.7
California	2	0.7
Alabama	2	0.7
New York	2	0.7
Illinois	1	0.3
Louisiana	1	0.3
Idaho	1	0.3
North Dakota	1	0.3
New Hampshire	1	0.3
Michigan	1	0.3
New Mexico	1	0.3
Massachusetts	1	0.3
Connecticut	1	0.3
Not sure	5	1.7

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

	N	%
Triangle	121	40.6
Outside NC	115	38.6
Other NC	62	20.8

Table 5: Job Title

	N
Administrative Staff	1
Aerospace Engineer	1
Aerospace Structural Engineer	1
Applications Engineer	3
Arc Flashing and Safety Testing Engineer	1
Assistant Mechanical Engineer	2
Assistant Project Manager	1
Associate Business Consultant - Transportation Management	1
Associate Consultant	1
Associate Data Analyst	1
Associate Electronics Engineer	1
Associate Energy Engineer	1
Associate Engineer	4
Associate Manufacturing Scientist	2
Associate Process Engineer	1
Associate Software Engineer	2
Associate Specialist	1
Associate Specialist, Engineering	3
Associate Systems Engineer	2
Automation Engineer	2
Aviation Modeling and Simulation Engineer	1
Avionics Design Engineer	1
Bench Technician	1
Bioreactor Scientist	1
Brewery Trainee Program	1

Table 5: Job Title, *continued*

	N
Bridge Designer	1
Broadcast Engineer	1
Business Technology Analyst	4
Campus Launcher	1
Chemical Engineer	1
Civil Associate	1
Civil Designer	1
Civil Designer I	1
Civil Engineer I	2
Co-Founder	1
College Intern	1
Consultant	1
Consultant I	2
Continuous Improvement Engineer	1
Contract Engineer	1
Control Systems Engineer	2
Controls Computer Systems Engineer	1
Controls Sales	1
Controls Sales Engineer	1
Core Designer	1
Data Engineer	1
Design Engineer	1
DevOps Engineer	1
Diver	1
EFCP Multi-Skill Rotational Engineer	1

Table 5: Job Title, *continued*

	N
EIT	2
ELDP Associate	1
ELP Engineer	1
Electrical Construction Support Specialist	1
Electrical Designer	2
Electrical Engineer	3
Electrical Engineer I	2
Electrical Validation	1
Electronics Engineer	1
Electronics Technician nuclear first class	1
Engineer	2
Engineer I	2
Engineer Trainee	1
Engineering Assistant	1
Engineering Intern	2
Engineering Intern- Hydraulic/Hydrology Department	1
Engineering Leadership Development Program	4
Ensign	3
Entry Level Chemical Engineer	1
Entry Level Engineer	2
Environmental Engineer	1
Equipment Sales Engineer	1
Estimator/Project Manager	1
Field Engineer	1
Financial Product Manager	1

Table 5: Job Title, continued

	N
Flight Controls Engineer	1
Flight Controls Engineer I	1
Full Stack Web Development	1
Graduate Engineer	1
Graduate Mechanical Engineer	1
Graduate Research Assistant	1
Group Manager	1
Hardware Engineer	2
Hardware Engineer (Professional Development Program)	1
Health Extension Agent	1
IS Specialist	1
IT Associate II	1
IT Consultant	1
Infantry Officer	1
Inside Sales Engineer	1
Instrumentation and Controls Engineering Intern	1
Intern	2
Investigation Owner	1
Junior Engineer	1
Labor Management Industrial Engineer	1
Management Development Program Associate	1
Management Engineer	1
Management Trainee	1
Management Trainee - Mechanical	1
Manufacturing Operations Associate	1

Table 5: Job Title, *continued*

	N
Manufacturing Assoc III	1
Manufacturing Quality Engineer	1
Material Control Engineer	1
Mechanical Design Engineer	2
Mechanical Designer	1
Mechanical Engineer	4
Mechanical Engineering Co-op	1
Mechanical and AST Structures Engineer	1
N/A	2
Naval Student Aviator	1
Network Engineer	1
New Hire	1
New Product Engineer	1
Nuclear Engineer	1
Nuclear Engineer I	3
Office Engineer	1
Operations Analyst	1
Operations Engineer	1
Operations Leadership Program Associate	1
Operations Management	1
Operations/Data Engineer	1
Operator	1
PDP Program Engineer	1
Pharmaceutical Sciences Future Leader	1
Pilot	1

Table 5: Job Title, *continued*

	N
Pilot Trainee	1
Plant Engineer	1
Power Systems Engineer	1
Power and Automation Leader	1
Prefabrication Engineer	1
Process Development Associate	1
Process Engineer	9
Process Engineer and Supervisor	1
Process Supervisor	1
Product Engineer	1
Product Marketing Specialist	1
Production Engineer	3
Production Engineering Specialist	1
Project Engineer	10
Project Manager	2
QC Analyst I	1
Quality Engineering	1
REACH Engineer	2
Race Engineer	1
Reactor Engineer	1
Regulatory Compliance and Quality Programs Specialist	1
Relay Engineer	1
Reliability Engineer	1
Research Assistant	1
Research Associate	3

Table 5: Job Title, *continued*

	N
Research Engineer	1
Researcher	1
Road and Highways Associate Engineer	1
Roadway Design Engineer	1
Rotational Development Program	2
SEED Engineer	1
SW Engineer II	1
Sales Engineer	1
Senior Software Engineer	1
Service Engineer	1
Shift Test Engineer	1
Software Consultant	1
Software Design Engineer	1
Software Developer	5
Software Developer I	1
Software Development Engineer (SDE)	1
Software Engineer	15
Software Quality Assurance Engineer	1
Special Engineer	1
Stock Associate	1
Storage Engineer	1
Structural Dynamics Engineer	1
Structural Engineer	2
Structural Engineer I	2
Structure Engineer	1

Table 5: Job Title, *continued*

	N
Submarine Officer	2
Supplier Quality Engineer	1
Supply Chain Engineer	1
Supply Chain Engineering Leadership Development Program	1
Supply Chain Management Development Program	1
Supply Chain Rep	1
Support Engineer	1
Surface Warfare Officer	1
Systems Engineer	5
Systems Engineer I	1
Tdp	1
Teacher	2
Technical Analyst	2
Technical Development -- Rotation	1
Technical Intern	1
Technical Problem Solver	3
Technical Services	1
Technical Support Engineer	1
Technical Support Representative	1
Technology Advisory Analyst	1
Technology Advisory Program	1
Technology Analyst	1
Technology Development Program Associate	3
Traffic Engineer	1
Transmission Line Engineer	1

Table 5: Job Title, continued

	N
Transportation Designer	1
Undergraduate Pilot Training Select	1
Validation Engineer	1
Web Developer	1

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

	N	%
Career fair at NC State	135	43.3
Internship/externship	125	40.1
Applied for job via ePack	85	27.2
Career Development Center	66	21.2
On-campus interviewing	63	20.2
Co-op experience	63	20.2
Personal connection(s) within the company	55	17.6
Family/friends/classmates/co-workers	45	14.4
Employer info session on campus	41	13.1
LinkedIn	28	9.0
Employer found resume on ePack	26	8.3
Faculty member or found job listing in an NC State dept	23	7.4
Professional society	23	7.4
Internet (other than LinkedIn)	23	7.4
Consultation with NCSU Career Counselor/Coach	14	4.5
Career fair off campus	10	3.2
Staffing agency	5	1.6
Student teaching experience	3	1.0
Other	23	7.4

*Respondents could select more than one resource.

Further Education (college overall)

Information on graduate/professional school name, school location, and degree pursuing 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 definitely knew where they would be going.

Table 7: Name of Graduate/Professional School Students will be Attending

	N
California Institute of Technology	1
Carnegie Mellon University	1
Clemson University	1
Columbia University	1
Duke University	4
East Carolina University	1
Georgia Tech	7
Johns Hopkins University	1
Mercer University School of Medicine	1
NC State University	49
Oregon State University	1
Penn State University	2
Purdue University	1
Stanford University	1
Texas A&M	1
Tulane University	1
UNC Chapel Hill	3
University of Alabama - Birmingham	1
University of Bristol (UK)	1
University of Cambridge	2
University of Florida	2

Table 7: Name of Graduate/Professional School Students will be Attending, *continued*

	N
University of Maryland, College Park	1
University of Michigan	2
University of Nebraska - Lincoln	1
University of South Carolina	1
University of Texas at Austin	1
University of Virginia	4
University of Washington	1
Vanderbilt University	1
Virginia Tech	2
Wake Forest University	1

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

	N	%
North Carolina	58	59.2
Georgia	8	8.2
Virginia	6	6.1
California	3	3.1
Pennsylvania	3	3.1
Outside United States	3	3.1
Maryland	2	2.0
Texas	2	2.0
Florida	2	2.0
Michigan	2	2.0
South Carolina	1	1.0
New York	1	1.0
Oregon	1	1.0

Table 8: Location of Graduate/Professional School Students will be Attending, *continued*

	N	%
Indiana	1	1.0
Louisiana	1	1.0
Alabama	1	1.0
Nebraska	1	1.0
Washington	1	1.0
Tennessee	1	1.0

Table 9: Type of Degree*

	N	%
Master's	55	56.1
Doctoral	43	43.9
Professional	3	3.1

*Respondents could select more than one degree.

Table 10: Master's Degree

	N
EPSE	1
M	1
MACS	1
MAEd	1
MCRP	2
ME	8
MPhil	2
MS	31
MSEE	1
MSME	5
MSOT	1

Table 11: Doctoral Degree

	N
PhD	43

Table 12: Professional Degree

	N
JD	1
MD	2

Table 13: Academic Program*

	N
Accelerated Bachelor's Master's Program in Industrial and Systems Engineering	1
Aerospace Engineering	5
Applied Mathematics	1
BME	1
BioEngineering	1
Bioengineering	2
Biological Sciences/Applied Physiology	1
Biological and Agricultural Engineering	1
Biomanufacturing	1
Biomedical Engineering	2
Biomedical Sciences - Cancer Biology	1
Biomedical engineering	1
CSC	1
Centre for Functional Nanomaterials	1
Chemical Engineering	4
Chemical engineering	1
Civil Engineering	4

Table 13: Academic Program*, continued

	N
Civil and Environmental Engineering	1
Computer Engineering	3
Computer Science	5
Computer science	2
Csc	1
Cyber Security and AI, PhD	1
Doctorate in Chemical Engineering	1
Doctorate of Medicine	1
ECE	2
EDUCATION	1
EPSE	1
Electrical Engineering	12
Electrical Power Systems Engineering	2
Environmental Engineering	1
Heat transfer	1
ISE	1
Industrial and Systems Engineering	2
JD	1
M.S. Analytics	1
M.S. in Electrical Engineering	1
Master in Robotics	1
Master of Science in Nuclear Engineering	1
Masters of Computer Science	1
Masters of Engineering Management	1
Materials Science	1

Table 13: Academic Program*, *continued*

	N
Materials Science & Engineering	1
Materials Science and Engineering	1
Materials Science and Engineering Ph.D. Program	1
Materials science and engineering	1
Mechanical Engineering	7
Mechanical Engineering and Materials Science	1
Mechanical engineering	1
Medical Doctorate	1
Nuclear Engineering	1
Nuclear Engineering and Radiological Sciences PhD	1
Occupational Therapy	1
PhD	1
PhD chemical engineering	1
Pharmaceutical Sciences	1
Structural engineering	1
Water Resources	1
civil engineering transportation system	1

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

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