

December 2018 Graduate Future Plans Survey College Comparisons (Doctoral Degree Recipients)

This report presents results from the December 2018 Graduate Future Plans Survey, by college, for students graduating with a doctoral degree. Separate reports on the survey methods, overall results, departmental summaries, as well as a copy of the questionnaire, can be found on the [OIRP website](#).

Table 1: Response Rate, by College (Doctoral Degree Recipients)

College/School	December 2018 Graduating Doctoral Students	Percent of Population	Survey Respondents	Percent of Survey Respondents	Response Rate
College of Agriculture & Life Sciences	28	15.9%	15	13.8%	53.6%
College of Design	3	1.7%	1	0.9%	33.3%
College of Education	22	12.5%	15	13.8%	68.2%
College of Engineering	64	36.4%	46	42.2%	71.9%
College of Natural Resources	6	3.4%	5	4.6%	83.3%
College of Humanities & Social Sciences	8	4.5%	5	4.6%	62.5%
College of Sciences	37	21.0%	19	17.4%	51.4%
Wilson College of Textiles	8	4.5%	3	2.8%	37.5%
Total	176	100.0%	109	100.0%	61.9%

Table 2: Primary Plans Following Graduation, by College*

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Has confirmed employment	78.9%	53.3%	100.0%	73.3%	82.6%	100.0%	100.0%	89.5%	33.3%
Pursuing employment	19.3%	53.3%	100.0%	13.3%	13.0%	0.0%	0.0%	10.5%	66.7%
Further education	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Do not plan to work or study	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other plans	7.3%	13.3%	100.0%	20.0%	4.3%	0.0%	0.0%	0.0%	0.0%
Total	109	15	1	15	46	5	5	19	3

*Respondents could indicate more than one type of activity.

Post-Graduate Employment

The first part of this section of the report focuses specifically on the responses of those doctoral students who indicated they had obtained a full-time position. We then look briefly at information provided by those who said they were actively seeking but had not yet found a position or were in the process of negotiation, and finally at those who said they had not yet begun their job search.

Full-Time Employment

Table 3: Full- or Part-Time Employment, by College (among those securing any type of employment)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Full-time	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Part-time	.	.	.	.	.	.	.	.	.
Total	86	8	1	11	38	5	5	17	1

Table 4: History with Employer: New or Continuing Employment, by College (full-time employees only)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Starting a new position with a new employer to begin after graduation	56.5%	25.0%	.	9.1%	68.4%	20.0%	40.0%	93.8%	100.0%
Continuing at a place of employment obtained while pursuing current degree	30.6%	75.0%	100.0%	54.5%	21.1%	40.0%	40.0%	6.3%	.
Returning to or continuing at a place of employment had before pursuing current degree	12.9%	.	.	36.4%	10.5%	40.0%	20.0%	.	.
Total	85	8	1	11	38	5	5	16	1

Table 5: When Started Looking for a Job, by College (among full-time employees working at a place of employment obtained at time of graduation or during graduate program)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
12 or more months before graduation	19.7%	.	100.0%	16.7%	24.2%	.	66.7%	12.5%	.
9-11 months before graduation	22.5%	12.5%	.	16.7%	30.3%	.	33.3%	18.8%	.
6-8 months before graduation	19.7%	12.5%	.	16.7%	21.2%	66.7%	.	18.8%	.
3-5 months before graduation	28.2%	50.0%	.	16.7%	24.2%	33.3%	.	37.5%	.
1-2 months before graduation	4.2%	25.0%	.	16.7%	.	.	.	.	.
Less than one month before graduation	5.6%	.	.	16.7%	.	.	.	12.5%	100.0%
Total	71	8	1	6	33	3	3	16	1

Table 6: Number of Positions Interviewed For, by College (among full-time employees working at a place of employment obtained at time of graduation or during graduate program)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
None	11.0%	14.3%	.	16.7%	8.8%	33.3%	25.0%	5.9%	.
One	31.5%	42.9%	.	50.0%	26.5%	.	.	41.2%	100.0%
Two	17.8%	.	.	16.7%	23.5%	33.3%	25.0%	11.8%	.
Three	8.2%	14.3%	100.0%	.	5.9%	.	.	11.8%	.
Four	15.1%	14.3%	.	.	14.7%	.	25.0%	23.5%	.
Five or six	9.6%	14.3%	.	16.7%	11.8%	.	25.0%	.	.
Seven or eight	4.1%	.	.	.	5.9%	.	.	5.9%	.
More than ten	2.7%	.	.	.	2.9%	33.3%	.	.	.
Total	73	7	1	6	34	3	4	17	1

Table 7: Number of Job Offers, by College (among full-time employees working at a place of employment obtained at time of graduation or during graduate program)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Only job offer	66.2%	85.7%	100.0%	83.3%	56.3%	33.3%	75.0%	70.6%	100.0%
One additional job offer	21.1%	14.3%	.	16.7%	28.1%	33.3%	.	17.6%	.
Two additional job offers	5.6%	.	.	.	6.3%	33.3%	.	5.9%	.
Three or more additional job offers	7.0%	.	.	.	9.4%	.	25.0%	5.9%	.
Total	71	7	1	6	32	3	4	17	1

Table 8: When Received Accepted Job Offer, by College (among full-time employees working at a place of employment obtained at time of graduation or during graduate program)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
12 or more months before graduation	7.1%	.	.	40.0%	6.1%	.	.	5.9%	.
9-11 months before graduation	12.9%	.	.	20.0%	15.2%	.	.	17.6%	.
6-8 months before graduation	18.6%	28.6%	100.0%	20.0%	18.2%	.	50.0%	5.9%	.
3-5 months before graduation	27.1%	28.6%	.	.	36.4%	.	50.0%	17.6%	.
1-2 months before graduation	20.0%	28.6%	.	.	12.1%	33.3%	.	41.2%	.
Less than one month before graduation	14.3%	14.3%	.	20.0%	12.1%	66.7%	.	11.8%	.
Total	70	7	1	5	33	3	4	17	0

Table 9: Helpful Resources in Job Search, by College (among full-time employees working at a place of employment obtained at time of graduation or during graduate program)*

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
NC State faculty member	40.5%	37.5%	0.0%	14.3%	44.1%	66.7%	75.0%	37.5%	0.0%
Personal/professional connection(s) within the company	35.1%	0.0%	0.0%	57.1%	41.2%	66.7%	25.0%	31.3%	0.0%
Professional association (members, conferences, publications, etc.)	23.0%	37.5%	100.0%	0.0%	29.4%	33.3%	25.0%	6.3%	0.0%
Internet: LinkedIn	21.6%	25.0%	100.0%	14.3%	20.6%	0.0%	0.0%	25.0%	100.0%
Internship/externship	14.9%	0.0%	0.0%	0.0%	26.5%	0.0%	0.0%	12.5%	0.0%
Family/friends/classmates/co-workers	12.2%	12.5%	0.0%	14.3%	8.8%	66.7%	0.0%	12.5%	0.0%
Student teaching experience	9.5%	12.5%	0.0%	0.0%	11.8%	0.0%	25.0%	6.3%	0.0%
Internet (other than LinkedIn)	9.5%	0.0%	100.0%	0.0%	5.9%	0.0%	0.0%	18.8%	100.0%
Optional Practical Training (OPT)	8.1%	0.0%	0.0%	0.0%	14.7%	0.0%	0.0%	6.3%	0.0%
Campus or college career center	6.8%	0.0%	0.0%	0.0%	14.7%	0.0%	0.0%	0.0%	0.0%
Employer info session on campus	5.4%	0.0%	0.0%	0.0%	8.8%	0.0%	0.0%	6.3%	0.0%
Applied for job via ePACK	4.1%	0.0%	0.0%	0.0%	8.8%	0.0%	0.0%	0.0%	0.0%
Career fair at NC State	4.1%	0.0%	0.0%	0.0%	8.8%	0.0%	0.0%	0.0%	0.0%
Co-op experience	4.1%	12.5%	0.0%	0.0%	2.9%	0.0%	0.0%	6.3%	0.0%
On-campus interviewing	2.7%	0.0%	0.0%	0.0%	5.9%	0.0%	0.0%	0.0%	0.0%
Volunteer work	2.7%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	6.3%	0.0%
Consultation w/ NCSU Career Counselor/Coach	1.4%	0.0%	0.0%	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%
Career fair off campus	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.3%	0.0%
Employer found resume on ePACK	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Clinical placement	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Staffing agency	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other	4.1%	0.0%	0.0%	14.3%	2.9%	0.0%	0.0%	6.3%	0.0%
None of the above	8.1%	12.5%	0.0%	14.3%	5.9%	0.0%	25.0%	6.3%	0.0%
Total	74	8	1	7	34	3	4	16	1

*Respondents could select more than one resource.

Table 10: Job Promotion, by College (among full-time employees continuing in place of employment had prior to graduation)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Salary increase	13.5%	.	.	20.0%	25.0%	.	.	.	.
Promotion/title change	2.7%	.	.	10.0%	.	.	.	.	.
Both a salary increase and promotion/title change	43.2%	16.7%	.	20.0%	50.0%	75.0%	100.0%	100.0%	.
None of the above	40.5%	83.3%	100.0%	50.0%	25.0%	25.0%	.	.	.
Total	37	6	1	10	12	4	3	1	0

Table 11: Employment Sector, by College (full-time employees only)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Education: U.S. 4-year college or university other than medical school	27.9%	50.0%	100.0%	36.4%	15.8%	40.0%	80.0%	17.6%	.
Education: U.S. medical school (including university-affiliated hospital or medical school)	2.3%	.	.	.	2.6%	.	.	5.9%	.
Education: U.S. university-affiliated research institute	4.7%	12.5%	.	.	.	40.0%	.	5.9%	.
Education: U.S. community or two-year college	4.7%	.	.	18.2%	.	.	.	11.8%	.
Education: U.S. preschool, elementary, middle, secondary school or school system	5.8%	.	.	36.4%	2.6%	.	.	.	.
Education: Foreign educational institution	5.8%	.	.	.	5.3%	20.0%	.	11.8%	.
Government: U.S. federal government	11.6%	.	.	.	18.4%	.	.	17.6%	.
Government: U.S. state government	.	.	.	.	.	.	.	.	.
Government: U.S. local government	.	.	.	.	.	.	.	.	.
Government: Foreign government	1.2%	12.5%	.	.	.	.	.	.	.
Private Sector: Not for profit organization	5.8%	12.5%	.	9.1%	5.3%	.	.	5.9%	.
Private Sector: Industry (for profit)	29.1%	12.5%	.	.	47.4%	.	20.0%	23.5%	100.0%
Self-Employed	.	.	.	.	.	.	.	.	.
Other	1.2%	.	.	.	2.6%	.	.	.	.
Total	86	8	1	11	38	5	5	17	1

Table 12: Postgraduate Training Position, by College (full-time employees only)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Postdoctoral fellowship or further training	36.5%	71.4%	.	9.1%	31.6%	80.0%	20.0%	47.1%	.
Internship	1.2%	.	.	.	2.6%	.	.	.	.
Clinical residency	.	.	.	.	.	.	.	.	.
None of the above	62.4%	28.6%	100.0%	90.9%	65.8%	20.0%	80.0%	52.9%	100.0%
Total	85	7	1	11	38	5	5	17	1

Table 13: Industry, by College (full-time employees only)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Aerospace	1.2%	.	.	.	2.6%	.	.	.	.
Agriculture	2.3%	25.0%	.	.	.	.	.	.	.
Biotechnology	2.3%	.	.	.	2.6%	.	.	5.9%	.
Chemicals	2.3%	.	.	.	.	.	.	5.9%	100.0%
Computer Software/Hardware	7.0%	.	.	.	15.8%	.	.	.	.
Construction	1.2%	.	.	.	2.6%	.	.	.	.
Consumer Products	1.2%	.	.	.	.	.	.	5.9%	.
Design	1.2%	.	100.0%	.	.	.	.	.	.
Education	26.7%	12.5%	.	90.9%	5.3%	40.0%	80.0%	23.5%	.
Energy	3.5%	.	.	.	7.9%	.	.	.	.
Engineering	16.3%	25.0%	.	.	31.6%	.	.	.	.
Environment/Sustainability	1.2%	.	.	.	.	20.0%	.	.	.
Government	5.8%	.	.	.	7.9%	.	.	11.8%	.
Marketing	1.2%	.	.	.	2.6%	.	.	.	.
Military & Defense	1.2%	.	.	.	2.6%	.	.	.	.
Natural Resources	1.2%	.	.	.	.	20.0%	.	.	.
Non-Profit/Philanthropy	1.2%	12.5%	.	.	.	.	.	.	.
Pharmaceutical	1.2%	.	.	.	2.6%	.	.	.	.
Public Policy	1.2%	12.5%	.	.	.	.	.	.	.
Research	11.6%	12.5%	.	.	7.9%	.	.	35.3%	.
Technology	3.5%	.	.	.	2.6%	.	.	11.8%	.
Wood Products	1.2%	.	.	.	.	20.0%	.	.	.
Other	3.5%	.	.	9.1%	5.3%	.	.	.	.
Not sure	1.2%	.	.	.	.	.	20.0%	.	.
Total	86	8	1	11	38	5	5	17	1

Table 14: Job Function, by College (full-time employees only)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Actuarial/Statistical & Data Analysis	1.2%	.	.	.	.	.	.	5.9%	.
Administrative	4.8%	.	.	40.0%	.	.	.	.	.
Agricultural Business/Economics	1.2%	.	.	.	.	20.0%	.	.	.
Agronomy/Plant/Crop Science	2.4%	25.0%	.	.	.	.	.	.	.
Analyst	1.2%	.	.	.	2.7%	.	.	.	.
Construction	1.2%	.	.	.	2.7%	.	.	.	.
Consulting	3.6%	.	.	10.0%	2.7%	.	.	5.9%	.
Design - Engineering	1.2%	.	.	.	2.7%	.	.	.	.
Economics	2.4%	25.0%	.	.	.	.	.	.	.
Education/Teaching/Curriculum Development	14.3%	.	100.0%	40.0%	8.1%	.	40.0%	11.8%	.
Engineering	20.2%	25.0%	.	.	37.8%	.	.	5.9%	.
Environmental/Conservation	1.2%	.	.	.	.	20.0%	.	.	.
Extension/Education	1.2%	.	.	.	.	20.0%	.	.	.
Information Technology/Systems	2.4%	.	.	10.0%	2.7%	.	.	.	.
Laboratory Science	1.2%	.	.	.	.	.	.	5.9%	.
Research & Development	14.3%	25.0%	.	.	13.5%	20.0%	.	17.6%	100.0%
Science - Life/Physical Science	1.2%	.	.	.	2.7%	.	.	.	.
Scientific Research	19.0%	.	.	.	18.9%	20.0%	20.0%	41.2%	.
Software Development	3.6%	.	.	.	5.4%	.	.	5.9%	.
Other	1.2%	.	.	.	.	.	20.0%	.	.
Not sure	1.2%	.	.	.	.	.	20.0%	.	.
Total	84	8	1	10	37	5	5	17	1

Table 15: Relationship of Job to Graduate Program, by College (full-time employees only)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Directly related	81.4%	75.0%	100.0%	90.9%	76.3%	100.0%	100.0%	76.5%	100.0%
Somewhat related	17.4%	25.0%	.	9.1%	21.1%	.	.	23.5%	.
Not at all related (by choice)	1.2%	.	.	.	2.6%	.	.	.	.
Not at all related (not by choice)	.	.	.	.	.	.	.	.	.
Total	86	8	1	11	38	5	5	17	1

Table 16: Satisfaction with Job, by College (full-time employees only)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very Satisfied	44.2%	25.0%	.	27.3%	52.6%	40.0%	40.0%	52.9%	.
Satisfied	46.5%	75.0%	.	45.5%	44.7%	40.0%	40.0%	41.2%	100.0%
Neutral	5.8%	.	100.0%	9.1%	2.6%	.	20.0%	5.9%	.
Dissatisfied	2.3%	.	.	9.1%	.	20.0%	.	.	.
Very Dissatisfied	1.2%	.	.	9.1%	.	.	.	.	.
Total	86	8	1	11	38	5	5	17	1

Table 17: Job Location, by College (in or out of the Triangle; full-time employees only)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Triangle	32.9%	50.0%	.	27.3%	28.9%	60.0%	40.0%	31.3%	.
Other N.C.	12.9%	12.5%	.	54.5%	2.6%	.	20.0%	12.5%	.
In U.S. outside N.C.	45.9%	25.0%	100.0%	18.2%	60.5%	20.0%	40.0%	43.8%	100.0%
Outside U.S.	8.2%	12.5%	.	.	7.9%	20.0%	.	12.5%	.
Total	85	8	1	11	38	5	5	16	1

Table 18: Type of Compensation, by College (full-time employees only)*

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Salary	95.3%	100.0%	100.0%	100.0%	97.4%	80.0%	100.0%	88.2%	100.0%
Commission	2.3%	0.0%	0.0%	0.0%	5.3%	0.0%	0.0%	0.0%	0.0%
Performances Bonuses	17.4%	0.0%	0.0%	9.1%	28.9%	0.0%	0.0%	17.6%	0.0%
Hourly	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%	0.0%
Tips	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Stipend	3.5%	0.0%	0.0%	0.0%	2.6%	0.0%	20.0%	5.9%	0.0%
Other	1.2%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%
Unpaid	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	86	8	1	11	38	5	5	17	1

**Respondents could indicate more than one type of compensation.

Table 19: Type of Compensation Combined, by College (full-time employees only)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Salary only	76.7%	100.0%	100.0%	90.9%	68.4%	80.0%	80.0%	70.6%	100.0%
Salary plus performance bonuses	15.1%	.	.	9.1%	23.7%	.	.	17.6%	.
Hourly only	1.2%	.	.	.	.	.	.	5.9%	.
Other combinations	7.0%	.	.	.	7.9%	20.0%	20.0%	5.9%	.
Total	86	8	1	11	38	5	5	17	1

Table 20: Annual Salary, by College (full-time employees only)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Mean	79,699	59,375	**	85,682	89,527	56,250	58,500	74,844	**
Median	72,500	57,500	**	82,500	82,500	57,500	57,500	62,500	**
Less than \$40,000	2.3%	.	**	.	2.6%	.	.	5.9%	**
\$40,000 - \$59,999	27.9%	50.0%	**	9.1%	21.1%	60.0%	60.0%	29.4%	**
\$60,000 - \$79,999	26.7%	50.0%	**	36.4%	18.4%	20.0%	40.0%	29.4%	**
\$80,000 - \$99,999	19.8%	.	**	27.3%	26.3%	.	.	11.8%	**
\$100,000 - \$119,999	7.0%	.	**	27.3%	5.3%	.	.	5.9%	**
\$120,000 or more	12.8%	.	**	.	23.7%	.	.	11.8%	**
Would prefer not answer	2.3%	.	**	.	.	20.0%	.	5.9%	**
Not sure	1.2%	.	**	.	2.6%	.	.	.	**
Total	86	8	1	11	38	5	5	17	1

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

Table 21: Received Job Offer Incentives, by College (full-time employees only)*

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Received signing bonus	16.3%	12.5%	0.0%	0.0%	26.3%	0.0%	0.0%	17.6%	0.0%
Received company shares	12.8%	0.0%	0.0%	0.0%	18.4%	0.0%	20.0%	11.8%	100.0%
Did not receive a signing bonus or company shares	79.1%	87.5%	100.0%	100.0%	68.4%	100.0%	80.0%	82.4%	0.0%
Total	86	8	1	11	38	5	5	17	1

*Respondents could indicate more than one type of incentive.

Table 22: Amount of Signing Bonus, by College (full-time employees only)*

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Less than \$5,000	.	**	.	.	.	.	.	**	.
\$5,000 to \$9,999	30.8%	**	.	.	22.2%	.	.	**	.
\$10,000 to \$14,999	7.7%	**	.	.	11.1%	.	.	**	.
\$15,000 to \$19,999	15.4%	**	.	.	22.2%	.	.	**	.
\$20,000 to \$24,999	.	**	.	.	.	.	.	**	.
\$25,000 to \$29,999	7.7%	**	.	.	.	.	.	**	.
\$30,000 or more	38.5%	**	.	.	44.4%	.	.	**	.
Total	13	1	0	0	9	0	0	3	0

*Responses of "would prefer not to answer" and "not sure" have been excluded from analysis.

**Statistics on signing bonus information for those colleges with fewer than four respondents reporting signing bonuses have been excluded from the table.

Table 23: Value of Company Shares, by College (full-time employees only)*

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Less than \$10,000	.	.	.	.	.	.	.	**	**
\$10,000 to \$19,999	.	.	.	.	.	.	.	**	**
\$20,000 to \$29,999	12.5%	.	.	.	.	.	.	**	**
\$30,000 to \$39,999	12.5%	.	.	.	20.0%	.	.	**	**
\$40,000 to \$49,999	.	.	.	.	.	.	.	**	**
\$50,000 to \$59,999	.	.	.	.	.	.	.	**	**
\$60,000 to \$69,999	.	.	.	.	.	.	.	**	**
\$70,000 to \$79,999	.	.	.	.	.	.	.	**	**
\$80,000 to \$89,999	25.0%	.	.	.	.	.	.	**	**
\$90,000 to \$99,999	.	.	.	.	.	.	.	**	**
\$100,000 or more	50.0%	.	.	.	80.0%	.	.	**	**
Total	8	0	0	0	5	0	0	2	1

*Responses of “would prefer not to answer” and “not sure” have been excluded from analysis.

**Statistics on signing bonus information for those colleges with fewer than four respondents reporting signing bonuses have been excluded from the table.

Table 24: Relocation Package, by College (full-time employees only)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Yes	32.6%	12.5%	.	.	44.7%	.	40.0%	41.2%	100.0%
No	38.4%	75.0%	100.0%	45.5%	39.5%	20.0%	.	29.4%	.
Not applicable	29.1%	12.5%	.	54.5%	15.8%	80.0%	60.0%	29.4%	.
Total	86	8	1	11	38	5	5	17	1

Seeking Employment

Table 25: Status of Plans to Pursue Employment (among all those seeking or planning to seek employment)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Actively seeking a position but have no specific prospects at this time	90.5%	75.0%	100.0%	100.0%	100.0%	.	.	100.0%	100.0%
Currently negotiating with one or more specific organizations	4.8%	12.5%	.	.	.	.	.	.	.
Have not begun to seek employment, but plan to do so in the coming year	4.8%	12.5%	.	.	.	.	.	.	.
Total	21	8	1	2	6	0	0	2	2

Table 26: Employment Status at Time of Survey (among all those seeking or planning to seek employment)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Employed	19.0%	25.0%	100.0%	50.0%	.	.	.	.	.
Unemployed	81.0%	75.0%	.	50.0%	100.0%	.	.	100.0%	100.0%
Total	21	8	1	2	6	0	0	2	2

Table 27: When Started Looking for a Job, by College (among those actively seeking employment or negotiating with one or more organizations)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
12 or more months before graduation	10.5%	.	100.0%	50.0%	.	.	.	.	.
9-11 months before graduation	15.8%	16.7%	.	50.0%	16.7%	.	.	.	.
6-8 months before graduation	26.3%	16.7%	.	.	16.7%	.	.	100.0%	50.0%
3-5 months before graduation	15.8%	16.7%	.	.	33.3%	.	.	.	.
1-2 months before graduation	15.8%	33.3%	.	.	16.7%	.	.	.	.
Less than one month before graduation	15.8%	16.7%	.	.	16.7%	.	.	.	50.0%
Total	19	6	1	2	6	0	0	2	2

Table 28: Number of Positions Interviewed For, by College (among those actively seeking employment or negotiating with one or more organizations)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
None	21.1%	33.3%	.	100.0%	.	.	.	.	.
One	10.5%	.	.	.	.	.	.	50.0%	50.0%
Two	31.6%	16.7%	100.0%	.	33.3%	.	.	50.0%	50.0%
Three	10.5%	33.3%	.	.	.	.	.	.	.
Four	10.5%	.	.	.	33.3%	.	.	.	.
Five or six	15.8%	16.7%	.	.	33.3%	.	.	.	.
Seven or eight	.	.	.	.	.	.	.	.	.
Nine or ten	.	.	.	.	.	.	.	.	.
More than ten	.	.	.	.	.	.	.	.	.
Total	19	6	1	2	6	0	0	2	2

Table 29: Received Any Job Offers, by College (among those actively seeking employment or negotiating with one or more organizations)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
No	84.2%	66.7%	.	100.0%	100.0%	.	.	100.0%	100.0%
Yes - one	10.5%	16.7%	100.0%	.	.	.	.	.	.
Yes - two	5.3%	16.7%	.	.	.	.	.	.	.
Yes – three or more	.	.	.	.	.	.	.	.	.
Total	19	6	1	2	6	0	0	2	2

Table 30: Looking for Full- or Part-Time Work, by College (among those actively seeking employment or negotiating with one or more organizations)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Full time	100.0%	100.0%	100.0%	100.0%	100.0%	.	.	100.0%	100.0%
Part-time	.	.	.	.	.	.	.	.	.
Either	.	.	.	.	.	.	.	.	.
Total	19	6	1	2	6	0	0	2	2

Table 31: Relationship of Job Seeking to Graduate Program, by College (among those actively seeking employment or negotiating with one or more organizations)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Looking for position directly related to my graduate program	52.6%	33.3%	100.0%	100.0%	50.0%	.	.	100.0%	.
Looking for position that is at least somewhat related to my graduate program	47.4%	66.7%	.	.	50.0%	.	.	.	100.0%
Looking for position that is unrelated to my graduate program	.	.	.	.	.	.	.	.	.
How closely position is related to my graduate program is irrelevant in my job search	.	.	.	.	.	.	.	.	.
Total	19	6	1	2	6	0	0	2	2

Table 32: Job Function of Job Seeking, by College (among those actively seeking employment or negotiating with one or more organizations)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Animal/Veterinary	5.6%	16.7%	.	.	.	.	.	.	.
Consulting	5.6%	.	.	.	16.7%	.	.	.	.
Design - Creative	5.6%	.	100.0%	.	.	.	.	.	.
Education/Teaching/Curriculum Development	16.7%	.	.	100.0%	16.7%	.	.	.	.
Engineering	16.7%	.	.	.	33.3%	.	.	.	100.0%
Environmental/Conservation	5.6%	16.7%	.	.	.	.	.	.	.
Research & Development	38.9%	50.0%	.	.	33.3%	.	.	100.0%	.
Scientific Research	5.6%	16.7%	.	.	.	.	.	.	.
Total	18	6	1	2	6	0	0	2	1

Table 33: Looking for Employment Inside or Outside of North Carolina, by College (among those actively seeking employment or negotiating with one or more organizations)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Only N.C.	21.1%	33.3%	.	50.0%	.	.	.	50.0%	.
In N.C. and other U.S. states	47.4%	33.3%	.	.	83.3%	.	.	50.0%	50.0%
In U.S., but outside N.C.	10.5%	16.7%	.	.	16.7%	.	.	.	.
Inside and outside the U.S.	21.1%	16.7%	100.0%	50.0%	.	.	.	.	50.0%
Outside U.S. only	.	.	.	.	.	.	.	.	.
Total	19	6	1	2	6	0	0	2	2

Future Job Seekers

Table 34: When Will Begin Job Search, by College (among those not yet seeking employment, but planning to do so)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Within the next couple of weeks	100.0%	100.0%	.	.	.	.	.	.	.
Within a month after graduation	.	.	.	.	.	.	.	.	.
Within 2-3 months after graduation	.	.	.	.	.	.	.	.	.
Within 4-6 months after graduation	.	.	.	.	.	.	.	.	.
Within 6-12 months after graduation	.	.	.	.	.	.	.	.	.
Not for at least a year	.	.	.	.	.	.	.	.	.
Not sure	.	.	.	.	.	.	.	.	.
Total	1	1	0	0	0	0	0	0	0

NC State Experiences and Resources

This section of the report looks at participation by doctoral graduates in various work-related experiences and scholarship activities while pursuing their degree at NC State, and their use of various resources made available through the University and College career services offices.

Table 35: Participation in Work-Related Experiences, by College*

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Co-op	5.6%	7.1%	0.0%	0.0%	6.5%	0.0%	0.0%	11.1%	0.0%
Internship	28.0%	14.3%	0.0%	26.7%	34.8%	20.0%	20.0%	33.3%	0.0%
Externship	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Job in field of study	12.1%	7.1%	0.0%	46.7%	8.7%	0.0%	20.0%	0.0%	0.0%
Practicum	1.9%	0.0%	0.0%	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%
Clinical placement	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Teaching assistantship	59.8%	71.4%	100.0%	13.3%	65.2%	40.0%	80.0%	77.8%	33.3%
Research assistantship	77.6%	92.9%	0.0%	6.7%	93.5%	80.0%	80.0%	83.3%	100.0%
Other research, independently or with faculty or peers (not published or presented)	40.2%	42.9%	0.0%	33.3%	32.6%	60.0%	80.0%	50.0%	33.3%
Student teaching	23.4%	35.7%	0.0%	0.0%	28.3%	20.0%	40.0%	16.7%	33.3%
Class project	5.6%	7.1%	0.0%	20.0%	4.3%	0.0%	0.0%	0.0%	0.0%
Volunteer work in field of study	15.0%	28.6%	0.0%	6.7%	15.2%	0.0%	0.0%	16.7%	33.3%
Other	5.6%	7.1%	100.0%	6.7%	4.3%	0.0%	0.0%	5.6%	0.0%
None of the above	1.9%	0.0%	0.0%	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	107	14	1	15	46	5	5	18	3

*Respondents could select more than one experience.

Table 36: Number of Articles/Creative Works Published during Graduate Program, by College

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
None	34.9%	30.8%	.	60.0%	32.6%	20.0%	.	33.3%	66.7%
One	13.2%	23.1%	.	.	13.0%	20.0%	20.0%	16.7%	.
Two	16.0%	23.1%	.	26.7%	10.9%	40.0%	.	16.7%	.
Three	9.4%	7.7%	.	.	10.9%	20.0%	40.0%	.	33.3%
Four	4.7%	.	.	13.3%	2.2%	.	20.0%	5.6%	.
Five or more	21.7%	15.4%	100.0%	.	30.4%	.	20.0%	27.8%	.
Total	106	13	1	15	46	5	5	18	3

Table 37: Number of Conference Presentations Given During Graduate Program, by College

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
None	28.0%	28.6%	.	53.3%	30.4%	.	.	16.7%	33.3%
One	2.8%	.	.	.	2.2%	.	.	11.1%	.
Two	11.2%	14.3%	100.0%	13.3%	4.3%	20.0%	.	22.2%	.
Three	11.2%	7.1%	.	.	15.2%	40.0%	20.0%	5.6%	.
Four	8.4%	7.1%	.	20.0%	4.3%	.	.	11.1%	33.3%
Five or more	38.3%	42.9%	.	13.3%	43.5%	40.0%	80.0%	33.3%	33.3%
Total	107	14	1	15	46	5	5	18	3

Table 38: Helpfulness of Co-op in Securing Job Offer, by College (among those having such an experience and looking for employment)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very helpful	20.0%	.	.	.	50.0%	.	.	.	.
Somewhat helpful	80.0%	100.0%	.	.	50.0%	.	.	100.0%	.
Not very helpful	.	.	.	.	.	.	.	.	.
Not at all helpful	.	.	.	.	.	.	.	.	.
Total	5	1	0	0	2	0	0	2	0

Table 39: Helpfulness of Internship in Securing Job Offer, by College (among those having such an experience and looking for employment)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very helpful	42.9%	.	.	.	62.5%	.	.	33.3%	.
Somewhat helpful	39.3%	.	.	33.3%	31.3%	100.0%	100.0%	50.0%	.
Not very helpful	14.3%	100.0%	.	33.3%	6.3%	.	.	16.7%	.
Not at all helpful	3.6%	.	.	33.3%	.	.	.	.	.
Total	28	1	0	3	16	1	1	6	0

Table 40: Helpfulness of Job in Field of Study in Securing Job Offer, by College (among those having such an experience and looking for employment)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very helpful	54.5%	100.0%	.	40.0%	50.0%	.	100.0%	.	.
Somewhat helpful	36.4%	.	.	60.0%	25.0%	.	.	.	.
Not very helpful	9.1%	.	.	.	25.0%	.	.	.	.
Not at all helpful	.	.	.	.	.	.	.	.	.
Total	11	1	0	5	4	0	1	0	0

Table 41: Helpfulness of Practicum in Securing Job Offer, by College (among those having such an experience and looking for employment)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very helpful	.	.	.	.	.	.	.	.	.
Somewhat helpful	.	.	.	.	.	.	.	.	.
Not very helpful	100.0%	.	.	100.0%	.	.	.	.	.
Not at all helpful	.	.	.	.	.	.	.	.	.
Total	1	0	0	1	0	0	0	0	0

Table 42: Helpfulness of Teaching Assistantship in Securing Job Offer, by College (among those having such an experience and looking for employment)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very helpful	15.0%	.	.	.	18.5%	100.0%	25.0%	7.1%	.
Somewhat helpful	30.0%	33.3%	.	100.0%	37.0%	.	25.0%	7.1%	100.0%
Not very helpful	41.7%	44.4%	100.0%	.	33.3%	.	25.0%	71.4%	.
Not at all helpful	13.3%	22.2%	.	.	11.1%	.	25.0%	14.3%	.
Total	60	9	1	2	27	2	4	14	1

Table 43: Helpfulness of Research Assistantship in Securing Job Offer, by College (among those having such an experience and looking for employment)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very helpful	60.5%	61.5%	.	100.0%	56.1%	50.0%	75.0%	66.7%	66.7%
Somewhat helpful	28.4%	38.5%	.	.	26.8%	50.0%	.	26.7%	33.3%
Not very helpful	7.4%	.	.	.	12.2%	.	.	6.7%	.
Not at all helpful	3.7%	.	.	.	4.9%	.	25.0%	.	.
Total	81	13	0	1	41	4	4	15	3

Table 44: Helpfulness of Non-Published/Presented Research, Independently or With Faculty, in Securing Job Offer, by College (among those having such an experience and looking for employment)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very helpful	80.5%	100.0%	.	75.0%	64.3%	66.7%	100.0%	88.9%	100.0%
Somewhat helpful	9.8%	.	.	.	21.4%	33.3%	.	.	.
Not very helpful	4.9%	.	.	.	14.3%	.	.	.	.
Not at all helpful	4.9%	.	.	25.0%	.	.	.	11.1%	.
Total	41	6	0	4	14	3	4	9	1

Table 45: Helpfulness of Student Teaching in Securing Job Offer, by College (among those having such an experience and looking for employment)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very helpful	33.3%	.	.	.	33.3%	100.0%	50.0%	33.3%	100.0%
Somewhat helpful	20.8%	20.0%	.	.	33.3%	.	.	.	.
Not very helpful	29.2%	40.0%	.	.	25.0%	.	.	66.7%	.
Not at all helpful	16.7%	40.0%	.	.	8.3%	.	50.0%	.	.
Total	24	5	0	0	12	1	2	3	1

Table 46: Helpfulness of Class Project in Securing Job Offer, by College (among those having such an experience and looking for employment)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very helpful	66.7%	100.0%	.	50.0%	.	.	.	.	.
Somewhat helpful	.	.	.	.	.	.	.	.	.
Not very helpful	33.3%	.	.	50.0%	.	.	.	.	.
Not at all helpful	.	.	.	.	.	.	.	.	.
Total	3	1	0	2	0	0	0	0	0

Table 47: Helpfulness of Volunteer Work in Securing Job Offer, by College (among those having such an experience and looking for employment)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very helpful	33.3%	25.0%	.	.	33.3%	.	.	33.3%	100.0%
Somewhat helpful	33.3%	50.0%	.	100.0%	33.3%	.	.	.	.
Not very helpful	26.7%	25.0%	.	.	33.3%	.	.	33.3%	.
Not at all helpful	6.7%	.	.	.	.	.	.	33.3%	.
Total	15	4	0	1	6	0	0	3	1

Table 48: Career Services Used, by College*

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Career Development Center	18.7%	0.0%	0.0%	6.7%	26.1%	20.0%	0.0%	33.3%	0.0%
CALS Career Services	4.7%	35.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Wilson College of Textiles Career Services	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%
College of Design Career Services	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Poole COM Career Development Center	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Institute for Advanced Analytics Career Services	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other	6.5%	7.1%	0.0%	0.0%	6.5%	0.0%	0.0%	11.1%	33.3%
None	69.2%	57.1%	100.0%	93.3%	67.4%	80.0%	100.0%	55.6%	33.3%
Total	107	14	1	15	46	5	5	18	3

*Respondents could select more than one option.

Table 49: How Often Used Career Development Center Services, by College (among those using services)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Just once or twice	75.0%	.	.	100.0%	75.0%	.	.	83.3%	.
Several times	20.0%	.	.	.	25.0%	100.0%	.	.	.
Many times	5.0%	.	.	.	.	.	.	16.7%	.
On a regular basis	.	.	.	.	.	.	.	.	.
Total	20	0	0	1	12	1	0	6	0

Table 50: Evaluation of Career Development Center Information/Services, by College (among those using services)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Excellent	20.0%	.	.	.	16.7%	100.0%	.	16.7%	.
Good	55.0%	.	.	.	58.3%	.	.	66.7%	.
Fair	25.0%	.	.	100.0%	25.0%	.	.	16.7%	.
Poor	.	.	.	.	.	.	.	.	.
Very Poor	.	.	.	.	.	.	.	.	.
Total	20	0	0	1	12	1	0	6	0

Table 51: How Often Used CALS (College of Agriculture and Life Sciences) Career Services, by College (among those using services)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Just once or twice	100.0%	100.0%	.	.	.	.	.	.	.
Several times	.	.	.	.	.	.	.	.	.
Many times	.	.	.	.	.	.	.	.	.
On a regular basis	.	.	.	.	.	.	.	.	.
Total	5	5	0	0	0	0	0	0	0

Table 52: Evaluation of CALS Career Center Information/Services, by College (among those using services)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Excellent	40.0%	40.0%	.	.	.	.	.	.	.
Good	20.0%	20.0%	.	.	.	.	.	.	.
Fair	40.0%	40.0%	.	.	.	.	.	.	.
Poor	.	.	.	.	.	.	.	.	.
Very Poor	.	.	.	.	.	.	.	.	.
Total	5	5	0	0	0	0	0	0	0

Table 53: How Often Used WCOT (Wilson College of Textiles) Career Services, by College (among those using services)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Just once or twice	100.0%	.	.	.	.	.	.	.	100.0%
Several times	.	.	.	.	.	.	.	.	.
Many times	.	.	.	.	.	.	.	.	.
On a regular basis	.	.	.	.	.	.	.	.	.
Total	2	0	0	0	0	0	0	0	2

Table 54: Evaluation of WCOT Career Center Information/Services, by College (among those using services)

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Excellent	.	.	.	.	.	.	.	.	.
Good	50.0%	.	.	.	.	.	.	.	50.0%
Fair	50.0%	.	.	.	.	.	.	.	50.0%
Poor	.	.	.	.	.	.	.	.	.
Very Poor	.	.	.	.	.	.	.	.	.
Total	2	0	0	0	0	0	0	0	2

Table 55: Career Related Resources Used While at NC State, by College*

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
ePACK	27.1%	35.7%	0.0%	6.7%	37.0%	20.0%	0.0%	22.2%	33.3%
Presentations on resume writing, interviewing skills, etc	33.6%	57.1%	0.0%	26.7%	37.0%	0.0%	0.0%	38.9%	0.0%
Attended employer info sessions	22.4%	14.3%	0.0%	0.0%	37.0%	20.0%	0.0%	22.2%	0.0%
Visited NC State Career Development Center website	25.2%	14.3%	0.0%	0.0%	39.1%	20.0%	0.0%	27.8%	33.3%
Spoke w/ Career Counselor/Coach	4.7%	7.1%	0.0%	0.0%	8.7%	0.0%	0.0%	0.0%	0.0%
Mock interviews w/ Career Counselor/Coach	3.7%	7.1%	0.0%	0.0%	4.3%	20.0%	0.0%	0.0%	0.0%
On-campus interviewing	7.5%	0.0%	0.0%	0.0%	15.2%	0.0%	0.0%	0.0%	33.3%
Attended career fair	34.6%	35.7%	0.0%	6.7%	52.2%	40.0%	0.0%	16.7%	66.7%
Joined professional society at NC State related to career field	22.4%	21.4%	0.0%	20.0%	28.3%	20.0%	20.0%	16.7%	0.0%
None of the above	37.4%	28.6%	100.0%	53.3%	28.3%	40.0%	80.0%	38.9%	33.3%
Total	107	14	1	15	46	5	5	18	3

*Respondents could select more than one resource.

Table 56: Graduate School Resources Used While at NC State, by College*

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Participated in Accelerate to Industry (A2i)	7.5%	7.1%	0.0%	0.0%	6.5%	0.0%	0.0%	22.2%	0.0%
Participated in Preparing the Professoriate	8.4%	21.4%	0.0%	6.7%	8.7%	20.0%	0.0%	0.0%	0.0%
Obtained Teaching and Communication Certificate	5.6%	7.1%	0.0%	0.0%	4.3%	20.0%	0.0%	11.1%	0.0%
Total	107	14	1	15	46	5	5	18	3

*Respondents could select more than one resource.

Table 57: Career Fairs Attended, by College (among those saying they had attended any career fair)*

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
College of Humanities and Social Sciences Career Fair	0.0%	0.0%	.	0.0%	0.0%	0.0%	.	0.0%	0.0%
College of Design Career Expo or Spring Interview Days	2.7%	0.0%	.	0.0%	0.0%	50.0%	.	0.0%	0.0%
College of Education Career Fair	0.0%	0.0%	.	0.0%	0.0%	0.0%	.	0.0%	0.0%
Engineering Career Fair	70.3%	40.0%	.	0.0%	91.7%	0.0%	.	33.3%	50.0%
Poole College of Management Career & Internship Fair	2.7%	20.0%	.	0.0%	0.0%	0.0%	.	0.0%	0.0%
STEAM ² Career Expo	13.5%	40.0%	.	0.0%	0.0%	50.0%	.	66.7%	0.0%
Textiles Job Forum	5.4%	0.0%	.	100.0%	0.0%	0.0%	.	0.0%	50.0%
Graduate School Career Fair at NC State	18.9%	20.0%	.	0.0%	16.7%	50.0%	.	0.0%	50.0%
Law School Fair	0.0%	0.0%	.	0.0%	0.0%	0.0%	.	0.0%	0.0%
Health Career Expo	0.0%	0.0%	.	0.0%	0.0%	0.0%	.	0.0%	0.0%
Other career fair at NC State	8.1%	40.0%	.	0.0%	4.2%	0.0%	.	0.0%	0.0%
Career fair at another college/university	8.1%	0.0%	.	0.0%	8.3%	50.0%	.	0.0%	0.0%
Career fair not affiliated with a college/university (e.g., specific employer, city wide)	2.7%	20.0%	.	0.0%	0.0%	0.0%	.	0.0%	0.0%
Don't know/Don't remember which one	2.7%	0.0%	.	0.0%	0.0%	0.0%	.	33.3%	0.0%
Total	37	5	0	1	24	2	0	3	2

*Respondents could select more than one career fair.

Closing Comments

This final section of the report provides a look at respondents' overall satisfaction with their graduate program as a whole and the career guidance they have received while at NC State, as well as their feelings about their future career path.

Table 58: Overall Satisfaction with Graduate Program, by College

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very Satisfied	42.6%	28.6%	100.0%	53.3%	50.0%	40.0%	20.0%	26.3%	66.7%
Satisfied	42.6%	42.9%	.	20.0%	41.3%	40.0%	80.0%	57.9%	33.3%
Neutral	13.0%	14.3%	.	26.7%	8.7%	20.0%	.	15.8%	.
Dissatisfied	1.9%	14.3%	.	.	.	.	.	.	.
Very Dissatisfied	.	.	.	.	.	.	.	.	.
Total	108	14	1	15	46	5	5	19	3

Table 59: Overall Satisfaction with Career Guidance, by College

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very Satisfied	17.9%	21.4%	100.0%	13.3%	15.6%	40.0%	40.0%	5.6%	33.3%
Satisfied	42.5%	14.3%	.	26.7%	51.1%	20.0%	40.0%	61.1%	66.7%
Neutral	30.2%	35.7%	.	53.3%	24.4%	40.0%	20.0%	27.8%	.
Dissatisfied	9.4%	28.6%	.	6.7%	8.9%	.	.	5.6%	.
Very Dissatisfied	.	.	.	.	.	.	.	.	.
Total	106	14	1	15	45	5	5	18	3

Table 60: Feelings of Excitement for Future Career Path, by College

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very excited about what I will be doing	62.6%	50.0%	100.0%	66.7%	60.9%	60.0%	60.0%	72.2%	66.7%
Fairly excited about what I will be doing	33.6%	42.9%	.	26.7%	37.0%	40.0%	20.0%	27.8%	33.3%
Not very excited about what I will be doing	2.8%	.	.	6.7%	2.2%	.	20.0%	.	.
Not at all excited about what I will be doing	0.9%	7.1%	.	.	.	.	.	.	.
Total	107	14	1	15	46	5	5	18	3

Table 61: Feelings of Preparation for Future Career Path, by College

	College/School								
	NCSU	CALS	Design	CED	COE	CNR	HSS	COS	WCOT
Very prepared	59.8%	50.0%	100.0%	80.0%	50.0%	60.0%	80.0%	61.1%	100.0%
Somewhat prepared	35.5%	35.7%	.	20.0%	45.7%	40.0%	20.0%	33.3%	.
Somewhat unprepared	3.7%	7.1%	.	.	4.3%	.	.	5.6%	.
Very unprepared	0.9%	7.1%	.	.	.	.	.	.	.
Total	107	14	1	15	46	5	5	18	3

For more information about the Graduate Future Plans Survey contact:

Suzanne Crockett, Assistant Director for Survey Research

Office of Institutional Research and Planning

Box 7002

NC State University

Phone: (919) 515-6438

Email: sacrocke@ncsu.edu

Posted: May, 2019