

NSF Higher Education Research and Development Survey FY 2015 to FY 2017

Institution Information

Institution Name	University of North Carolina at Wilmington, The
Institution ID	002984

Note:

Data tabulated on Thursday, January 18, 2018 01:43 PM

U = Unavailable; respondent entered "Unavailable" on the questionnaire.

NA = not available; data were not collected in the respective year.

999.9% denotes a percent change of 999.9% or greater.

"i" denotes imputed data.

"e" denotes estimated data.

R&D expenditures by source and type

Question 1. R&D Expenditures by Source of Funds, FY 2015-2017

Source of Funds	R&D Expenditures (Dollars in thousands)			
	Fiscal Year			% Change 2016-17
	2017	2016	2015	
a. U.S. federal government	5,990	5,966	5,819	0.4%
b. State and local government	5,758	5,642	5,839	2.1%
c. Business	923	690	655	33.8%
d. Nonprofit organizations	401	578	558	-30.6%
e. Institutional funds				
1. Institutionally financed research	1,325	1,261	1,237	5.1%
2. Cost sharing	825	775	600	6.5%
3. Unrecovered indirect costs	776	765	828	1.4%
4. Total institutional funds	2,926	2,801	2,665	4.5%
f. All other sources	17	38	28	-55.3%
g. Total	16,015	15,715	15,564	1.9%

Question 1.1. Institutionally Financed R&D Expenditure Sources, FY 2015-2017

	Included in Question 1e1		
	Fiscal Year		
	2017	2016	2015
a. Competitively awarded internal grants for research	Yes	Yes	Yes
b. Startup packages/bridge funding/seed funding	Yes	Yes	Yes
c. Other departmental funds designated for research	Yes	Yes	Yes
d. Tuition assistance for student research personnel	Yes	Yes	Yes

Question 2. R&D Expenditures from Foreign Sources, FY 2015-2017

	R&D Expenditures (Dollars in thousands)			
	Fiscal Year			% Change 2016-17
	2017	2016	2015	
a. Foreign government	0	0	NA	
b. Business	0	0	NA	
c. Nonprofit organizations	9	8	NA	12.5%
d. Higher education	8	30	NA	-73.3%
e. All other sources	0	0	NA	
f. Total	17	38	28	-55.3%

Question 3. Externally Funded R&D Expenditures by Type of Agreement, FY 2015-2017

Type of Agreement	R&D Expenditures (Dollars in thousands)			
	Fiscal Year			% Change 2016-17
	2017	2016	2015	
a. Contracts	2,056	1,289	1,417	59.5%
b. Grants, reimbursements, and all other agreements	11,033	11,625	11,482	-5.1%
c. Total	13,089	12,914	12,899	1.4%

Question 4. R&D Expenditures in the Institution's Medical School, FY 2015-2017

	R&D Expenditures (Dollars in thousands)			
	Fiscal Year			% Change 2016-17
	2017	2016	2015	
Total R&D expenditures in the university's medical school	0	0	0	

Question 5. R&D Expenditures for Phase I, Phase II, and Phase III Clinical Trials with Human Patients, FY 2015-2017

	R&D Expenditures (Dollars in thousands)											
	(1) Federal				(2) Nonfederal				(3) Total			
	Fiscal Year			% Change 2016-17	Fiscal Year			% Change 2016-17	Fiscal Year			% Change 2016-17
	2017	2016	2015		2017	2016	2015		2017	2016	2015	
Human Clinical Trials	3	78	114	-96.2%	0	0	0		3	78	114	-96.2%

Question 6. R&D Expenditures by Type of Work, FY 2015-2017

	R&D Expenditures (Dollars in thousands)											
	(1) Federal				(2) Nonfederal				(3) Total			
	Fiscal Year			Change in % of total 2016-17	Fiscal Year			Change in % of total 2016-17	Fiscal Year			Change in % of total 2016-17
	2017	2016	2015		2017	2016	2015		2017	2016	2015	
a. Basic research	3,273	3,480	4,199	-3.7%	8,319	9,009	8,304	-9.4%	11,592	12,489	12,503	-7.1%
b. Applied research	2,371	2,077	1,432	4.8%	1,106	682	944	4.0%	3,477	2,759	2,376	4.2%
c. Development	346	409	188	-1.1%	600	58	497	5.4%	946	467	685	2.9%
d. Total	5,990	5,966	5,819	0.0%	10,025	9,749	9,745	0.0%	16,015	15,715	15,564	0.0%

Pass-through and subrecipient R&D expenditures**Question 7. R&D Expenditures Received as a Subrecipient, FY 2015-2017**

	R&D Expenditures (Dollars in thousands)											
	(1) Federal				(2) Nonfederal				(3) Total			
	Fiscal Year			% Change 2016-17	Fiscal Year			% Change 2016-17	Fiscal Year			% Change 2016-17
	2017	2016	2015		2017	2016	2015		2017	2016	2015	
a. From higher education institutions	1,932	1,302	1,077	↑ 48.4%	1	155	83	-99.4%	1,933	1,457	1,160	32.7%
b. From businesses	854	1,348	855	-36.6%	135	34	8	297.1%	989	1,382	863	-28.4%
c. From nonprofit organizations	30	107	157	-72.0%	9	110	193	-91.8%	39	217	350	-82.0%
d. From other	485	294	596	65.0%	2,388	323	477	↑ 639.3%	2,873	617	1,073	365.6%
e. Total	3,301	3,051	2,685	8.2%	2,533	622	761	307.2%	5,834	3,673	3,446	58.8%

FY 2017 Trend Variance Explanations:

Federal funds received as subrecipient from higher education: More pass thru collaborative subrecipient awards received

Nonfederal funds received as subrecipient from other sources: More subrecipient non-federal awards were pass thru to UNCW during 2017 from non-NC state agencies and higher education institutions.

Question 8. R&D Expenditures Passed Through to Subrecipients, FY 2015-2017

	R&D Expenditures (Dollars in thousands)											
	(1) Federal				(2) Nonfederal				(3) Total			
	Fiscal Year			% Change 2016-17	Fiscal Year			% Change 2016-17	Fiscal Year			% Change 2016-17
	2017	2016	2015		2017	2016	2015		2017	2016	2015	
a. To higher education institutions	20	91	106	-78.0%	134	13	11	930.8%	154	104	117	48.1%
b. To businesses	83	391	0	-78.8%	395	0	0	999.9%	478	391	0	22.3%
c. To nonprofit organizations	87	9	182	866.7%	0	0	0		87	9	182	866.7%
d. To other	41	51	17	-19.6%	55	0	0	999.9%	96	51	17	88.2%
e. Total	231	542	305	-57.4%	584	13	11	999.9%	815	555	316	46.8%

R&D expenditures from federal sources**Question 9. Federally Funded Federal R&D Expenditures by Field and Federal Agency, FY 2017**

R&D Fields	Federal R&D Expenditures (Dollars in thousands)							Total
	USDA	DoD	Energy	HHS*	NASA	NSF	Other	
A. Computer and Information Sciences	0	0	0	0	0	13	0	13
B. Engineering								
1. Aerospace, Aeronautical, and Astronautical Engineering	0	0	0	0	0	0	0	0
2. Bioengineering and Biomedical Engineering	0	0	0	0	0	0	0	0
3. Chemical Engineering	0	0	0	0	0	0	0	0
4. Civil Engineering	0	0	0	0	0	0	1	1
5. Electrical, Electronic, and Communications Engineering	0	122	99	0	0	0	0	221
6. Industrial and Manufacturing Engineering	0	0	0	0	0	0	0	0
7. Mechanical Engineering	0	0	0	0	0	0	0	0
8. Metallurgical and Materials Engineering	0	0	0	0	0	0	0	0
9. Other Engineering	0	0	0	0	0	0	0	0
10. Total	0	122	99	0	0	0	1	222
C. Geosciences, Atmospheric Sciences, and Ocean Sciences								
1. Atmospheric Science and Meteorology	0	0	0	0	0	22	0	22
2. Geological and Earth Sciences	0	0	23	0	0	82	543	648
3. Ocean Sciences and Marine Sciences	0	69	0	0	68	78	430	645
4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences	0	0	0	0	0	0	0	0
5. Total	0	69	23	0	68	182	973	1,315
D. Life Sciences								
1. Agricultural Sciences	0	0	0	0	0	85	559	644
2. Biological and Biomedical Sciences	36	597	8	121	0	633	317	1,712
3. Health Sciences	0	0	0	3	0	0	0	3
4. Natural Resources and Conservation	0	0	0	137	0	0	50	187
5. Other Life Sciences	0	0	0	0	0	0	0	0
6. Total	36	597	8	261	0	718	926	2,546
E. Mathematics and Statistics	0	0	0	0	0	34	0	34
F. Physical Sciences								
1. Astronomy and Astrophysics	0	0	0	0	0	0	0	0
2. Chemistry	0	0	0	80	0	198	0	278
3. Materials Science	0	0	0	0	0	0	0	0
4. Physics	0	0	0	0	0	205	0	205
5. Other Physical Sciences	0	0	0	0	0	0	0	0
6. Total	0	0	0	80	0	403	0	483
G. Psychology	0	0	0	137	0	0	78	215
H. Social Sciences								
1. Anthropology	0	0	0	0	0	0	0	0
2. Economics	0	0	0	0	0	0	0	0
3. Political Science and Government	0	0	0	0	0	0	0	0
4. Sociology, Demography, and Population Studies	0	0	0	6	0	0	0	6
5. Other Social Sciences	0	0	0	0	0	0	0	0
6. Total	0	0	0	6	0	0	0	6
I. Other Sciences	0	0	0	0	0	0	0	0
J. Non-S&E Fields								
1. Business Management and Business Administration	0	0	0	0	0	0	154	154
2. Communication and Communications Technologies	0	0	0	0	0	0	0	0
3. Education	0	0	0	76	0	67	482	625
4. Humanities	0	0	0	0	0	0	13	13
5. Law	0	0	0	0	0	0	0	0
6. Social Work	0	0	0	0	0	0	0	0
7. Visual and Performing Arts	0	0	0	0	0	0	6	6
8. Other Non-S&E Fields	0	39	0	111	0	0	208	358
9. Total	0	39	0	187	0	67	863	1,156
K. Total for All Fields of R&D	36	827	130	671	68	1,417	2,841	5,990

* includes NIH

Question 9. Federally Funded Federal R&D Expenditures by Field and Federal Agency, FY 2016

R&D Fields	Federal R&D Expenditures (Dollars in thousands)							
	USDA	DoD	Energy	HHS*	NASA	NSF	Other	Total
A. Computer and Information Sciences	0	0	0	0	0	13	0	13
B. Engineering								
1. Aerospace, Aeronautical, and Astronautical Engineering	0	0	0	0	0	0	0	0
2. Bioengineering and Biomedical Engineering	0	0	0	0	0	0	0	0
3. Chemical Engineering	0	0	0	0	0	0	0	0
4. Civil Engineering	0	0	0	0	0	0	5	5
5. Electrical, Electronic, and Communications Engineering	0	172	70	0	0	0	0	242
6. Industrial and Manufacturing Engineering	0	0	0	0	0	0	0	0
7. Mechanical Engineering	0	0	0	0	0	0	0	0
8. Metallurgical and Materials Engineering	0	0	0	0	0	0	0	0
9. Other Engineering	0	0	0	0	0	0	0	0
10. Total	0	172	70	0	0	0	5	247
C. Geosciences, Atmospheric Sciences, and Ocean Sciences								
1. Atmospheric Science and Meteorology	0	0	0	0	0	35	0	35
2. Geological and Earth Sciences	0	0	22	0	0	137	0	159
3. Ocean Sciences and Marine Sciences	0	129	0	0	52	0	469	650
4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences	0	0	0	0	0	0	0	0
5. Total	0	129	22	0	52	172	469	844
D. Life Sciences								
1. Agricultural Sciences	0	0	0	0	0	24	438	462
2. Biological and Biomedical Sciences	0	632	0	107	0	430	198	1,367
3. Health Sciences	0	0	0	228	0	0	7	235
4. Natural Resources and Conservation	0	0	0	0	0	0	0	0
5. Other Life Sciences	0	0	0	0	0	0	0	0
6. Total	0	632	0	335	0	454	643	2,064
E. Mathematics and Statistics	0	0	0	0	0	0	0	0
F. Physical Sciences								
1. Astronomy and Astrophysics	0	0	0	0	0	0	0	0
2. Chemistry	0	0	0	96	0	353	3	452
3. Materials Science	0	0	0	0	0	51	0	51
4. Physics	0	0	0	0	0	79	463	542
5. Other Physical Sciences	0	0	0	0	0	0	0	0
6. Total	0	0	0	96	0	483	466	1,045
G. Psychology	0	0	0	131	0	0	83	214
H. Social Sciences								
1. Anthropology	0	0	0	0	0	0	0	0
2. Economics	0	0	0	0	0	0	0	0
3. Political Science and Government	0	0	0	8	0	0	0	8
4. Sociology, Demography, and Population Studies	0	0	0	0	0	0	0	0
5. Other Social Sciences	0	0	0	0	0	0	0	0
6. Total	0	0	0	8	0	0	0	8
I. Other Sciences	0	38	0	48	0	0	74	160
J. Non-S&E Fields								
1. Business Management and Business Administration	0	0	0	0	0	0	211	211
2. Communication and Communications Technologies	0	0	0	0	0	0	6	6
3. Education	0	0	0	113	0	153	870	1,136
4. Humanities	0	0	0	0	0	0	0	0
5. Law	0	0	0	0	0	0	0	0
6. Social Work	0	0	0	0	0	0	0	0
7. Visual and Performing Arts	0	0	0	0	0	0	0	0
8. Other Non-S&E Fields	0	0	0	0	0	0	18	18
9. Total	0	0	0	113	0	153	1,105	1,371
K. Total for All Fields of R&D	0	971	92	731	52	1,275	2,845	5,966

* includes NIH

Question 9. Federally Funded Federal R&D Expenditures by Field and Federal Agency, FY 2015

R&D Fields	Federal R&D Expenditures (Dollars in thousands)							
	USDA	DoD	Energy	HHS*	NASA	NSF	Other	Total
A. Computer and Information Sciences	0	0	0	0	0	82	86	168
B. Engineering								
1. Aerospace, Aeronautical, and Astronautical Engineering	0	0	0	0	0	0	0	0
2. Bioengineering and Biomedical Engineering	0	0	0	0	0	0	0	0
3. Chemical Engineering	0	0	0	0	0	0	0	0
4. Civil Engineering	0	0	0	0	0	0	6	6
5. Electrical, Electronic, and Communications Engineering	0	16	0	0	0	0	0	16
6. Industrial and Manufacturing Engineering	NA	NA	NA	NA	NA	NA	NA	NA
7. Mechanical Engineering	0	0	0	0	0	0	0	0
8. Metallurgical and Materials Engineering	0	0	0	0	0	0	0	0
9. Other Engineering	0	0	0	0	0	0	0	0
10. Total	0	16	0	0	0	0	6	22
C. Geosciences, Atmospheric Sciences, and Ocean Sciences								
1. Atmospheric Science and Meteorology	0	0	0	0	0	77	0	77
2. Geological and Earth Sciences	0	0	0	0	31	98	410	539
3. Ocean Sciences and Marine Sciences	0	96	35	0	0	97	224	452
4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences	0	0	0	0	0	0	0	0
5. Total	0	96	35	0	31	272	634	1,068
D. Life Sciences								
1. Agricultural Sciences	0	0	0	0	0	40	330	370
2. Biological and Biomedical Sciences	0	476	0	180	0	572	254	1,482
3. Health Sciences	0	0	0	144	0	0	0	144
4. Natural Resources and Conservation	NA	NA	NA	NA	NA	NA	NA	NA
5. Other Life Sciences	0	0	0	201	0	0	11	212
6. Total	0	476	0	525	0	612	595	2,208
E. Mathematics and Statistics	0	0	0	0	0	30	2	32
F. Physical Sciences								
1. Astronomy and Astrophysics	0	0	0	0	0	0	0	0
2. Chemistry	0	0	0	35	0	285	6	326
3. Materials Science	NA	NA	NA	NA	NA	NA	NA	NA
4. Physics	0	0	0	0	0	23	0	23
5. Other Physical Sciences	0	0	0	0	0	52	0	52
6. Total	0	0	0	35	0	360	6	401
G. Psychology	0	0	0	146	0	0	49	195
H. Social Sciences								
1. Anthropology	NA	NA	NA	NA	NA	NA	NA	NA
2. Economics	0	25	0	0	0	0	8	33
3. Political Science and Government	0	0	0	0	8	0	0	8
4. Sociology, Demography, and Population Studies	0	0	0	0	0	0	7	7
5. Other Social Sciences	0	0	0	10	0	0	0	10
6. Total	0	25	0	10	8	0	15	58
I. Other Sciences	0	0	0	0	0	367	0	367
J. Non-S&E Fields								
1. Business Management and Business Administration	28	0	0	0	0	0	284	312
2. Communication and Communications Technologies	0	0	0	0	0	0	0	0
3. Education	0	0	0	0	0	186	682	868
4. Humanities	0	0	0	0	0	0	0	0
5. Law	0	0	0	0	0	0	0	0
6. Social Work	0	0	0	0	0	0	0	0
7. Visual and Performing Arts	0	0	0	0	0	0	0	0
8. Other Non-S&E Fields	0	44	0	75	0	0	1	120
9. Total	28	44	0	75	0	186	967	1,300
K. Total for All Fields of R&D	28	657	35	791	39	1,909	2,360	5,819

* includes NIH

Question 9. Federally Funded Federal R&D Expenditures by Field and Federal Agency Percent Change FY 2016-2017

R&D Fields	Federal R&D Expenditures							
	USDA	DoD	Energy	HHS*	NASA	NSF	Other	Total
A. Computer and Information Sciences						0.0%		0.0%
B. Engineering								
1. Aerospace, Aeronautical, and Astronautical Engineering								
2. Bioengineering and Biomedical Engineering								
3. Chemical Engineering								
4. Civil Engineering							-80.0%	-80.0%
5. Electrical, Electronic, and Communications Engineering		-29.1%	41.4%					-8.7%
6. Industrial and Manufacturing Engineering								
7. Mechanical Engineering								
8. Metallurgical and Materials Engineering								
9. Other Engineering								
10. Total		-29.1%	41.4%				-80.0%	-10.1%
C. Geosciences, Atmospheric Sciences, and Ocean Sciences								
1. Atmospheric Science and Meteorology						-37.1%		-37.1%
2. Geological and Earth Sciences			4.5%			-40.1%	999.9%	307.5%
3. Ocean Sciences and Marine Sciences		-46.5%			30.8%	999.9%	-8.3%	-0.8%
4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences								
5. Total		-46.5%	4.5%		30.8%	5.8%	107.5%	55.8%
D. Life Sciences								
1. Agricultural Sciences						254.2%	27.6%	39.4%
2. Biological and Biomedical Sciences	999.9%	-5.5%	999.9%	13.1%		47.2%	60.1%	25.2%
3. Health Sciences				-98.7%			-100.0%	-98.7%
4. Natural Resources and Conservation				999.9%			999.9%	999.9%
5. Other Life Sciences								
6. Total	999.9%	-5.5%	999.9%	-22.1%		58.1%	44.0%	23.4%
E. Mathematics and Statistics						999.9%		999.9%
F. Physical Sciences								
1. Astronomy and Astrophysics								
2. Chemistry				-16.7%		-43.9%	-100.0%	-38.5%
3. Materials Science						-100.0%		-100.0%
4. Physics						159.5%	-100.0%	-62.2%
5. Other Physical Sciences								
6. Total				-16.7%		-16.6%	-100.0%	-53.8%
G. Psychology				4.6%			-6.0%	0.5%
H. Social Sciences								
1. Anthropology								
2. Economics								
3. Political Science and Government				-100.0%				-100.0%
4. Sociology, Demography, and Population Studies				999.9%				999.9%
5. Other Social Sciences								
6. Total				-25.0%				-25.0%
I. Other Sciences		-100.0%		-100.0%			-100.0%	-100.0%
J. Non-S&E Fields								
1. Business Management and Business Administration							-27.0%	-27.0%
2. Communication and Communications Technologies							-100.0%	-100.0%
3. Education				-32.7%		-56.2%	-44.6%	-45.0%
4. Humanities							999.9%	999.9%
5. Law								
6. Social Work								
7. Visual and Performing Arts							999.9%	999.9%
8. Other Non-S&E Fields		999.9%		999.9%			999.9%	999.9%
9. Total		999.9%		65.5%		-56.2%	-21.9%	-15.7%
K. Total for All Fields of R&D	999.9%	-14.8%	41.3%	-8.2%	30.8%	11.1%	-0.1%	0.4%

* includes NIH

FY 2017 Trend Variance Explanations:**Other federally funded geological and earth sciences:** This increase was due to new awards in the field of Geological and Earth Science

Question 10. Federally Funded R&D Expenditures from Other Federal Agencies, FY 2015-2017 (Dollars in thousands)

FY 2017		FY 2016		FY 2015	
Federal Agency	R&D Expenditures	Federal Agency	R&D Expenditures	Federal Agency	R&D Expenditures
a. National Oceanic and Atmospheric Administration (NOAA)	1,736	a. Department of Commerce	1,449	a. National Oceanic and Atmospheric Administration (NOAA)	1,119
b. Department of State (DOS)	270	b. Department of Education (ED)	549	b. Department of Education (ED)	576
c. Department of Education (ED)	213	c. Department of State (DOS)	329	c. Small Business Administration (SBA)	212
d. Small Business Administration (SBA)	154	d. Small Business Administration (SBA)	251	d. Department of Justice (DOJ)	211
e. Federal Emergency Management Agency (FEMA)	129	e. Department of the Interior	120	e. Department of the Interior	121
f. Environmental Protection Agency (EPA)	128	f. Department of Justice (DOJ)	83	f. Department of State (DOS)	104
g. Department of Justice (DOJ)	79	g. Environmental Protection Agency (EPA)	58	g. National Endowment for the Arts (NEA)	7
h. Department of the Interior	63	h. National Endowment for the Arts (NEA)	6	h. Department of Transportation (DOT)	7
i. Veterans Health Administration (VHA)	50	i.		i. Environmental Protection Agency (EPA)	3
j. National Endowment for the Humanities (NEH)	19	j.		j.	
k. Other agencies not listed above		k. Other agencies not listed above		k. Other agencies not listed above	
l. Total	2,841	l. Total	2,845	l. Total	2,360

R&D expenditures from nonfederal sources**Question 11. Nonfederal R&D Expenditures by Field and Nonfederal Source, FY 2017**

R&D Fields	Nonfederal R&D Expenditures (Dollars in thousands)					
	State and local government	Business	Nonprofit organizations	Institutional funds	Other nonfederal sources	Total
A. Computer and Information Sciences	0	0	0	5	0	5
B. Engineering						
1. Aerospace, Aeronautical, and Astronautical Engineering	0	0	0	0	0	0
2. Bioengineering and Biomedical Engineering	0	436	0	109	0	545
3. Chemical Engineering	0	0	0	0	0	0
4. Civil Engineering	0	0	0	0	0	0
5. Electrical, Electronic, and Communications Engineering	0	0	0	11	0	11
6. Industrial and Manufacturing Engineering	0	0	0	0	0	0
7. Mechanical Engineering	0	0	0	0	0	0
8. Metallurgical and Materials Engineering	0	0	0	0	0	0
9. Other Engineering	0	0	0	0	0	0
10. Total	0	436	0	120	0	556
C. Geosciences, Atmospheric Sciences, and Ocean Sciences						
1. Atmospheric Science and Meteorology	0	0	0	0	0	0
2. Geological and Earth Sciences	0	0	0	23	0	23
3. Ocean Sciences and Marine Sciences	2,792	16	0	412	0	3,220
4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences	0	0	0	0	0	0
5. Total	2,792	16	0	435	0	3,243
D. Life Sciences						
1. Agricultural Sciences	695	58	133	310	2	1,198
2. Biological and Biomedical Sciences	2,124	100	63	143	6	2,436
3. Health Sciences	0	75	0	0	0	75
4. Natural Resources and Conservation	6	93	0	328	0	427
5. Other Life Sciences	0	0	0	0	0	0
6. Total	2,825	326	196	781	8	4,136
E. Mathematics and Statistics	12	0	0	0	0	12
F. Physical Sciences						
1. Astronomy and Astrophysics	0	0	0	0	0	0
2. Chemistry	0	4	2	36	0	42
3. Materials Science	0	0	0	0	0	0
4. Physics	0	35	0	2	0	37
5. Other Physical Sciences	0	0	0	0	0	0
6. Total	0	39	2	38	0	79
G. Psychology	0	0	0	21	6	27
H. Social Sciences						
1. Anthropology	0	0	0	0	0	0
2. Economics	0	0	0	3	0	3
3. Political Science and Government	0	0	0	2	0	2
4. Sociology, Demography, and Population Studies	0	18	194	43	0	255
5. Other Social Sciences	0	0	0	0	0	0
6. Total	0	18	194	48	0	260
I. Other Sciences	0	0	0	848	0	848
J. Non-S&E Fields						
1. Business Management and Business Administration	0	17	0	149	0	166
2. Communication and Communications Technologies	0	0	0	0	0	0
3. Education	107	22	4	246	0	379
4. Humanities	0	0	0	36	0	36
5. Law	0	0	0	0	0	0
6. Social Work	0	0	0	39	0	39
7. Visual and Performing Arts	17	8	2	31	0	58
8. Other Non-S&E Fields	5	41	3	129	3	181
9. Total	129	88	9	630	3	859
K. Total for All Fields of R&D	5,758	923	401	2,926	17	10,025

Question 11. Nonfederal R&D Expenditures by Field and Nonfederal Source, FY 2016

R&D Fields	Nonfederal R&D Expenditures (Dollars in thousands)					
	State and local government	Business	Nonprofit organizations	Institutional funds	Other nonfederal sources	Total
A. Computer and Information Sciences	0	8	0	6	0	14
B. Engineering						
1. Aerospace, Aeronautical, and Astronautical Engineering	0	58	0	0	0	58
2. Bioengineering and Biomedical Engineering	0	0	0	0	0	0
3. Chemical Engineering	0	0	0	0	0	0
4. Civil Engineering	0	0	0	1	0	1
5. Electrical, Electronic, and Communications Engineering	0	0	0	23	0	23
6. Industrial and Manufacturing Engineering	0	0	0	0	0	0
7. Mechanical Engineering	0	0	0	0	0	0
8. Metallurgical and Materials Engineering	0	0	0	0	0	0
9. Other Engineering	0	0	0	0	0	0
10. Total	0	58	0	24	0	82
C. Geosciences, Atmospheric Sciences, and Ocean Sciences						
1. Atmospheric Science and Meteorology	0	0	0	0	0	0
2. Geological and Earth Sciences	0	0	0	3	0	3
3. Ocean Sciences and Marine Sciences	2,518	0	9	503	0	3,030
4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences	0	0	0	2	0	2
5. Total	2,518	0	9	508	0	3,035
D. Life Sciences						
1. Agricultural Sciences	700	114	120	272	0	1,206
2. Biological and Biomedical Sciences	2,183	171	97	159	8	2,618
3. Health Sciences	25	114	124	487	0	750
4. Natural Resources and Conservation	39	0	0	1	0	40
5. Other Life Sciences	0	0	0	0	0	0
6. Total	2,947	399	341	919	8	4,614
E. Mathematics and Statistics	0	0	0	0	0	0
F. Physical Sciences						
1. Astronomy and Astrophysics	0	0	0	0	0	0
2. Chemistry	0	12	0	35	0	47
3. Materials Science	0	0	0	0	0	0
4. Physics	0	88	8	53	0	149
5. Other Physical Sciences	0	0	0	0	0	0
6. Total	0	100	8	88	0	196
G. Psychology	0	0	0	31	30	61
H. Social Sciences						
1. Anthropology	0	0	0	0	0	0
2. Economics	0	10	70	13	0	93
3. Political Science and Government	0	0	0	4	0	4
4. Sociology, Demography, and Population Studies	6	0	0	27	0	33
5. Other Social Sciences	0	0	0	0	0	0
6. Total	6	10	70	44	0	130
I. Other Sciences	52	15	117	686	0	870
J. Non-S&E Fields						
1. Business Management and Business Administration	0	52	14	176	0	242
2. Communication and Communications Technologies	0	0	0	0	0	0
3. Education	119	40	19	289	0	467
4. Humanities	0	0	0	1	0	1
5. Law	0	0	0	0	0	0
6. Social Work	0	0	0	3	0	3
7. Visual and Performing Arts	0	8	0	4	0	12
8. Other Non-S&E Fields	0	0	0	22	0	22
9. Total	119	100	33	495	0	747
K. Total for All Fields of R&D	5,642	690	578	2,801	38	9,749

FY 2016 General Comments:

Question 11C-I: Data Collection staff revised trend variance explanation to be more consistent with data on this page on other trend explanations.

Question 11. Nonfederal R&D Expenditures by Field and Nonfederal Source, FY 2015

R&D Fields	Nonfederal R&D Expenditures (Dollars in thousands)					
	State and local government	Business	Nonprofit organizations	Institutional funds	Other nonfederal sources	Total
A. Computer and Information Sciences	0	15	2	94	0	111
B. Engineering						
1. Aerospace, Aeronautical, and Astronautical Engineering	0	351	0	0	0	351
2. Bioengineering and Biomedical Engineering	0	0	0	0	0	0
3. Chemical Engineering	0	0	0	0	0	0
4. Civil Engineering	0	0	0	1	0	1
5. Electrical, Electronic, and Communications Engineering	0	0	0	0	0	0
6. Industrial and Manufacturing Engineering	NA	NA	NA	NA	NA	NA
7. Mechanical Engineering	0	0	0	0	0	0
8. Metallurgical and Materials Engineering	0	0	0	0	0	0
9. Other Engineering	0	0	0	0	0	0
10. Total	0	351	0	1	0	352
C. Geosciences, Atmospheric Sciences, and Ocean Sciences						
1. Atmospheric Science and Meteorology	0	0	0	0	0	0
2. Geological and Earth Sciences	0	4	11	25	0	40
3. Ocean Sciences and Marine Sciences	2,338	4	49	1,052	0	3,443
4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences	0	0	0	0	0	0
5. Total	2,338	8	60	1,077	0	3,483
D. Life Sciences						
1. Agricultural Sciences	483	23	66	268	0	840
2. Biological and Biomedical Sciences	2,443	155	49	176	28	2,851
3. Health Sciences	18	2	106	199	0	325
4. Natural Resources and Conservation	NA	NA	NA	NA	NA	NA
5. Other Life Sciences	0	18	0	31	0	49
6. Total	2,944	198	221	674	28	4,065
E. Mathematics and Statistics	0	0	0	16	0	16
F. Physical Sciences						
1. Astronomy and Astrophysics	0	0	0	0	0	0
2. Chemistry	2	18	0	7	0	27
3. Materials Science	NA	NA	NA	NA	NA	NA
4. Physics	0	0	0	3	0	3
5. Other Physical Sciences	0	6	31	9	0	46
6. Total	2	24	31	19	0	76
G. Psychology	0	0	13	40	0	53
H. Social Sciences						
1. Anthropology	NA	NA	NA	NA	NA	NA
2. Economics	0	0	0	3	0	3
3. Political Science and Government	99	0	94	6	0	199
4. Sociology, Demography, and Population Studies	0	0	0	66	0	66
5. Other Social Sciences	4	0	1	26	0	31
6. Total	103	0	95	101	0	299
I. Other Sciences	88	3	0	101	0	192
J. Non-S&E Fields						
1. Business Management and Business Administration	0	13	45	188	0	246
2. Communication and Communications Technologies	0	0	0	0	0	0
3. Education	101	26	47	183	0	357
4. Humanities	0	0	0	2	0	2
5. Law	3	0	0	1	0	4
6. Social Work	0	8	12	6	0	26
7. Visual and Performing Arts	21	8	32	96	0	157
8. Other Non-S&E Fields	239	1	0	66	0	306
9. Total	364	56	136	542	0	1,098
K. Total for All Fields of R&D	5,839	655	558	2,665	28	9,745

Question 11. Nonfederal R&D Expenditures by Field and Nonfederal Source, Percent Change FY 2017 - 2016

R&D Fields	Nonfederal R&D Expenditures (Dollars in thousands)					
	State and local government	Business	Nonprofit organizations	Institutional funds	Other nonfederal sources	Total
A. Computer and Information Sciences		-100.0%		-16.7%		-64.3%
B. Engineering						
1. Aerospace, Aeronautical, and Astronautical Engineering		-100.0%				-100.0%
2. Bioengineering and Biomedical Engineering		999.9%		999.9%		999.9%
3. Chemical Engineering						
4. Civil Engineering				-100.0%		-100.0%
5. Electrical, Electronic, and Communications Engineering				-52.2%		-52.2%
6. Industrial and Manufacturing Engineering						
7. Mechanical Engineering						
8. Metallurgical and Materials Engineering						
9. Other Engineering						
10. Total		651.7%		400.0%		578.0%
C. Geosciences, Atmospheric Sciences, and Ocean Sciences						
1. Atmospheric Science and Meteorology						
2. Geological and Earth Sciences				666.7%		666.7%
3. Ocean Sciences and Marine Sciences	10.9%	999.9%	-100.0%	-18.1%		6.3%
4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences				-100.0%		-100.0%
5. Total	10.9%	999.9%	-100.0%	-14.4%		6.9%
D. Life Sciences						
1. Agricultural Sciences	-0.7%	-49.1%	10.8%	14.0%	999.9%	-0.7%
2. Biological and Biomedical Sciences	-2.7%	-41.5%	-35.1%	-10.1%	-25.0%	-7.0%
3. Health Sciences	-100.0%	-34.2%	-100.0%	-100.0%		-90.0%
4. Natural Resources and Conservation	-84.6%	999.9%		999.9%		967.5%
5. Other Life Sciences						
6. Total	-4.1%	-18.3%	-42.5%	-15.0%	0.0%	-10.4%
E. Mathematics and Statistics	999.9%					999.9%
F. Physical Sciences						
1. Astronomy and Astrophysics						
2. Chemistry		-66.7%	999.9%	2.9%		-10.6%
3. Materials Science						
4. Physics		-60.2%	-100.0%	-96.2%		-75.2%
5. Other Physical Sciences						
6. Total		-61.0%	-75.0%	-56.8%		-59.7%
G. Psychology				-32.3%	-80.0%	-55.7%
H. Social Sciences						
1. Anthropology						
2. Economics		-100.0%	-100.0%	-76.9%		-96.8%
3. Political Science and Government				-50.0%		-50.0%
4. Sociology, Demography, and Population Studies	-100.0%	999.9%	999.9%	59.3%		672.7%
5. Other Social Sciences						
6. Total	-100.0%	80.0%	177.1%	9.1%		100.0%
I. Other Sciences	-100.0%	-100.0%	-100.0%	23.6%		-2.5%
J. Non-S&E Fields						
1. Business Management and Business Administration		-67.3%	-100.0%	-15.3%		-31.4%
2. Communication and Communications Technologies						
3. Education	-10.1%	-45.0%	-78.9%	-14.9%		-18.8%
4. Humanities				999.9%		999.9%
5. Law						
6. Social Work				999.9%		999.9%
7. Visual and Performing Arts	999.9%	0.0%	999.9%	675.0%		383.3%
8. Other Non-S&E Fields	999.9%	999.9%	999.9%	486.4%	999.9%	722.7%
9. Total	8.4%	-12.0%	-72.7%	27.3%	999.9%	15.0%
K. Total for All Fields of R&D	2.1%	33.8%	-30.6%	4.5%	-55.3%	2.8%

FY 2016 Trend Variance Explanations:

Institutional funded ocean sciences and marine sciences: A change in accounting policy for internal research awards to faculty from individual fund to a single research fund resulted in an inability to track individual research by project and more expenditures being labeled as Other Science and fewer as Ocean Science.

Institutional funded other sciences: A change in accounting policy for internal research awards to faculty from individual fund to a single research fund resulted in increase to category I due to inability to track individual research by project.

R&D expenditures by cost elements**Question 12 R&D Expenditures by Type of Cost, FY 2015-2017**

Source of Funds	R&D Expenditures (Dollars in thousands)			
	Fiscal Year			% Change 2016-17
	2017	2016	2015	
a. Salaries, wages, and fringe benefits	7,365	7,704	7,740	-4.4%
b. Software purchases				
1. Noncapitalized software	24	7	4	242.9%
2. Capitalized software	0	0	0	
c. Capitalized equipment	621	522	792	19.0%
d. Pass-throughs to other universities or organizations	815	555	316	46.8%
e. Other direct costs	5,027	5,387	4,610	-6.7%
f. Indirect costs				
1. Recovered indirect costs	1,387	775	1,274	79.0%
2. Unrecovered indirect costs	776	765	828	1.4%
3. Total indirect costs	2,163	1,540	2,102	40.5%
g. Total	16,015	15,715	15,564	1.9%

Question 13. Capitalization Thresholds for Software and Equipment, FY 2015-2017

	(1) Software				(2) Equipment			
	Fiscal Year			% Change 2016-17	Fiscal Year			% Change 2016-17
	2017	2016	2015		2017	2016	2015	
Capitalization thresholds	100.0	100.0	100.0	0.0%	5.0	5.0	5.0	0.0%

DC = Don't Capitalize; respondent entered "Don't Capitalize" on the questionnaire

Question 14. Equipment Expenditures by Field, FY 2015-2017

R&D Field	R&D Expenditures (Dollars in thousands)											
	(1) Federal				(2) Nonfederal				(3) Total			
	Fiscal Year			% Change 2016-17	Fiscal Year			% Change 2016-17	Fiscal Year			% Change 2016-17
	2017	2016	2015		2017	2016	2015		2017	2016	2015	
A. Computer and Information Sciences	0	0	0		0	0	0		0	0	0	
B. Engineering												
1. Aerospace, Aeronautical, and Astronautical Engineering	0	0	0		0	0	0		0	0	0	
2. Bioengineering and Biomedical Engineering	0	0	0		0	0	0		0	0	0	
3. Chemical Engineering	0	0	0		0	0	0		0	0	0	
4. Civil Engineering	0	0	0		0	0	0		0	0	0	
5. Electrical, Electronic, and Communications Engineering	0	6	0	-100.0%	0	0	0		0	6	0	-100.0%
6. Industrial and Manufacturing Engineering	0	0	NA		0	0	NA		0	0	NA	
7. Mechanical Engineering	0	0	0		0	0	0		0	0	0	
8. Metallurgical and Materials Engineering	0	0	0		0	0	0		0	0	0	
9. Other Engineering	0	0	0		0	0	0		0	0	0	
10. Total	0	6	0	-100.0%	0	0	0		0	6	0	-100.0%
C. Geosciences, Atmospheric Sciences, and Ocean Sciences												
1. Atmospheric Science and Meteorology	0	0	0		0	0	0		0	0	0	
2. Geological and Earth Sciences	13	0	0	999.9%	0	0	0		13	0	0	999.9%
3. Ocean Sciences and Marine Sciences	38	116	107	-67.2%	356	206	172	72.8%	394	322	279	22.4%
4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences	0	0	0		0	0	0		0	0	0	
5. Total	51	116	107	-56.0%	356	206	172	72.8%	407	322	279	26.4%
D. Life Sciences												
1. Agricultural Sciences	0	125	30	-100.0%	114	5	20	999.9%	114	130	50	-12.3%
2. Biological and Biomedical Sciences	3	0	9	999.9%	25	27	443	-7.4%	28	27	452	3.7%
3. Health Sciences	0	0	0		0	0	0		0	0	0	
4. Natural Resources and Conservation	0	0	NA		0	0	NA		0	0	NA	
5. Other Life Sciences	0	0	0		0	0	0		0	0	0	
6. Total	3	125	39	-97.6%	139	32	463	334.4%	142	157	502	-9.6%
E. Mathematics and Statistics	0	0	0		0	0	0		0	0	0	
F. Physical Sciences												
1. Astronomy and Astrophysics	0	0	0		0	0	0		0	0	0	
2. Chemistry	38	0	0	999.9%	6	0	0	999.9%	44	0	0	999.9%
3. Materials Science	0	0	NA		0	0	NA		0	0	NA	
4. Physics	0	5	0	-100.0%	0	0	0		0	5	0	-100.0%
5. Other Physical Sciences	0	0	11		0	0	0		0	0	11	
6. Total	38	5	11	660.0%	6	0	0	999.9%	44	5	11	780.0%
G. Psychology	0	32	0	-100.0%	0	0	0		0	32	0	-100.0%
H. Social Sciences												
1. Anthropology	0	0	NA		0	0	NA		0	0	NA	
2. Economics	0	0	0		0	0	0		0	0	0	
3. Political Science and Government	0	0	0		0	0	0		0	0	0	
4. Sociology, Demography, and Population Studies	0	0	0		0	0	0		0	0	0	
5. Other Social Sciences	0	0	0		0	0	0		0	0	0	
6. Total	0	0	0		0	0	0		0	0	0	
I. Other Sciences	0	0	0		0	0	0		0	0	0	
J. Non-S&E Fields												
1. Business Management and Business Administration	0	0	0		0	0	0		0	0	0	
2. Communication and Communications Technologies	0	0	0		0	0	0		0	0	0	
3. Education	0	0	0		0	0	0		0	0	0	
4. Humanities	0	0	0		0	0	0		0	0	0	
5. Law	0	0	0		0	0	0		0	0	0	
6. Social Work	0	0	0		0	0	0		0	0	0	
7. Visual and Performing Arts	0	0	0		0	0	0		0	0	0	
8. Other Non-S&E Fields	28	0	0	999.9%	0	0	0		28	0	0	999.9%
9. Total	28	0	0	999.9%	0	0	0		28	0	0	999.9%
K. Total for All Fields of R&D	120	284	157	-57.7%	501	238	635	110.5%	621	522	792	19.0%

R&D personnel**Question 15. Principal Investigators and Other Personnel, FY 2015-2017**

	(1) Principal Investigators				(2) All other personnel				(3) Total			
	Fiscal Year			% Change 2016-17	Fiscal Year			% Change 2016-17	Fiscal Year			% Change 2016-17
	2017	2016	2015		2017	2016	2015		2017	2016	2015	
Number of people (headcount)	186	133	133	39.8%	347	345	389	0.6%	533	478	522	11.5%

Fiscal year**Question 16. Fiscal Year**

	Month
In what month did your institution's fiscal year end?	June