

TABLE 59

## Federally financed higher education R&amp;D expenditures, financed by the Department of Defense, ranked by DOD R&amp;D expenditures, by R&amp;D field: FY 2019

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	6,654,613	854,034	224,716	1,321,881	123,327	603,540	54,448	77,670	61,607	3,268,352	65,038
Johns Hopkins U. <sup>a</sup>	1	1,262,988	149,228	9,040	70,101	63,430	143,849	412	6,385	33,959	786,584	0
Georgia Institute of Technology	2	523,399	128,135	495	423	79	5,534	688	48	0	387,941	56
Pennsylvania State U., University Park and Hershey Medical Center	3	300,261	50,068	6,502	3,987	10,879	16,063	461	579	0	209,040	2,682
Uniformed Services U. of the Health Sciences	4	281,375	0	0	273,225	0	0	8,150	0	0	0	0
U. Texas, Austin	5	156,351	32,234	66	4,983	725	29,891	1,281	249	53	86,601	268
Utah State U.	6	144,630	0	377	1,295	0	200	0	193	0	142,565	0
Massachusetts Institute of Technology	7	139,924	16,380	1,125	4,982	1,312	7,578	196	1,687	614	104,762	1,288
U. Southern California	8	133,937	92,732	262	9,134	0	3,812	226	519	0	25,720	1,532
U. California, San Diego	9	98,923	216	53,025	15,522	0	7,165	969	922	0	21,066	38
U. Maryland <sup>b</sup>	10	94,079	11,705	174	24,390	374	17,641	1,192	6,545	857	30,681	520
U. Washington, Seattle	11	93,841	5,791	20,984	29,518	1,289	2,042	331	378	0	32,930	578
Colorado State U., Fort Collins	12	92,283	885	19,768	64,137	801	787	41	2,540	0	3,275	49
U. Michigan, Ann Arbor	13	83,880	129	56	19,460	917	4,540	244	3,503	0	55,031	0
Carnegie Mellon U.	14	73,262	54,642	0	0	272	489	1,609	2,299	473	13,478	0
U. Dayton	15	72,068	3,453	0	126	0	549	0	0	0	67,737	203
Stanford U.	16	69,469	8,663	410	16,864	731	16,948	793	664	0	24,396	0
Duke U.	17	64,374	885	2,245	34,487	848	1,078	0	136	0	24,547	148
Harvard U.	18	57,390	2,078	1,971	17,698	697	16,851	0	3,414	0	14,681	0
Virginia Polytechnic Institute and State U.	19	54,557	4,034	0	7,320	215	2,750	0	333	104	39,800	1
George Mason U.	20	53,390	21,982	205	3,362	246	2,169	739	770	0	23,830	87
Naval Postgraduate School	21	51,682	6,837	3,988	1,939	1,688	7,505	0	2,821	2,019	19,973	4,912
U. California, Los Angeles	22	50,405	2,503	1,352	16,770	5,205	4,172	803	790	1,017	16,981	812
U. Illinois, Urbana-Champaign	23	50,403	6,501	110	5,121	168	5,256	399	11	0	32,505	332
U. Pennsylvania	24	49,467	11,430	79	11,903	164	3,250	1,905	4,895	0	14,406	1,435
Columbia U. in the City of New York	25	48,604	13,346	705	13,187	430	4,374	305	1,025	0	14,406	826
U. Alabama, Huntsville	26	47,429	23,034	92	18	6	324	0	1,786	0	22,073	96
U. Pittsburgh, Pittsburgh	27	47,299	1,020	346	32,607	348	6,230	0	129	544	6,069	6
Northwestern U.	28	43,448	0	0	12,020	0	13,885	1,083	101	1,846	13,740	773

TABLE 59

## Federally financed higher education R&amp;D expenditures, financed by the Department of Defense, ranked by DOD R&amp;D expenditures, by R&amp;D field: FY 2019

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Ohio State U.	29	39,550	1,253	272	8,018	540	4,502	837	202	132	23,345	449
Cornell U.	30	39,524	4,166	113	10,896	3	8,585	220	670	0	14,871	0
Purdue U., West Lafayette	31	39,470	3,969	0	1,758	407	3,132	0	294	148	28,757	1,005
U. Colorado Boulder	32	39,172	3,339	2,537	3,596	193	10,347	801	0	51	18,308	0
U. California, Berkeley	33	38,213	13	0	3,885	566	6,727	114	139	2,026	24,321	422
Woods Hole Oceanographic Institution	34	37,859	0	17,239	0	0	0	0	0	0	20,620	0
U. Wisconsin-Madison	35	36,636	2,877	1,476	9,790	236	7,848	299	281	284	13,162	383
Vanderbilt U. and Vanderbilt U. Medical Center	36	35,452	0	0	19,746	0	782	0	47	0	14,877	0
U. Central Florida	37	35,072	14,197	0	905	16	11,480	1,952	127	0	6,384	11
Arizona State U.	38	34,800	5,959	0	4,655	164	1,720	763	592	1,759	17,305	1,883
California Institute of Technology	39	34,316	6,308	1,220	2,625	0	13,633	0	0	0	10,208	322
U. Virginia, Charlottesville	40	34,119	9,245	7	6,562	0	1,097	599	219	0	16,299	91
U. California, Santa Barbara	41	34,067	3,331	617	1,038	0	11,380	131	0	0	17,313	257
North Carolina State U.	42	34,051	1,855	343	3,339	2,410	1,319	0	170	8,340	16,025	250
U.S. Air Force Academy	43	33,955	640	0	0	0	2,113	274	2,439	0	28,489	0
U. Hawaii, Manoa	44	33,197	7,609	11,483	1,433	90	5,695	0	0	0	6,883	4
U. Minnesota, Twin Cities	45	33,159	1,083	0	11,945	1,803	2,213	31	0	0	14,738	1,346
Northeastern U.	46	32,931	5,325	0	458	0	945	497	1,270	0	23,870	566
SUNY, Polytechnic Institute	47	32,837	0	0	0	0	0	0	0	0	32,837	0
U. Arizona	48	31,083	3,561	196	9,386	131	2,247	240	718	91	14,204	309
Wright State U.	49	30,799	708	0	2,146	0	624	1,998	0	0	25,322	1
U. Florida	50	30,329	1,452	0	11,776	429	664	134	1,028	0	14,740	106
U. Utah	51	29,860	5,610	279	6,283	232	5,364	2,780	312	0	8,175	825
U. California, San Francisco	52	29,636	0	0	28,123	0	1,513	0	0	0	0	0
U. Alabama, Birmingham	53	29,147	0	0	12,558	0	841	156	0	0	15,592	0
Princeton U.	54	29,077	2,765	294	3,016	883	5,085	329	378	0	16,218	109
Yale U.	55	28,512	1,642	4	10,198	149	10,086	87	20	0	6,326	0
Texas A&M U., College Station and Health Science Center	56	27,953	2,987	444	10,049	422	831	179	562	144	11,834	501
SUNY, U. Buffalo	57	27,532	51	42	3,602	6	948	0	0	0	22,883	0
Mercer U.	58	25,307	0	0	0	0	0	0	0	0	25,307	0
U. Notre Dame	59	24,399	1,299	0	651	488	349	183	0	801	20,628	0

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## Federally financed higher education R&amp;D expenditures, financed by the Department of Defense, ranked by DOD R&amp;D expenditures, by R&amp;D field: FY 2019

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New York U.	60	23,849	2,205	0	13,217	1,374	2,490	1,638	0	0	2,925	0
U. Chicago	61	23,339	1,414	0	4,023	837	9,262	726	1,724	0	5,353	0
Montana State U., Bozeman	62	22,807	437	0	1,499	213	953	0	0	0	13,766	5,939
Mississippi State U.	63	22,249	2,056	0	207	0	1,550	201	420	0	17,815	0
Wake Forest U.	64	21,182	0	0	21,013	0	169	0	0	0	0	0
Air Force Institute of Technology	65	20,782	1,707	876	0	691	4,055	0	0	0	13,453	0
Florida State U.	66	20,105	626	1,136	282	125	892	3,077	0	0	13,967	0
U. New Mexico	67	19,604	428	13	3,485	0	1,982	464	320	315	12,223	374
New Mexico State U.	68	19,487	0	89	2,962	0	10,357	0	0	0	6,079	0
Brown U.	69	19,359	4,540	109	3,036	1,960	1,821	17	189	39	7,648	0
U. Delaware	70	18,681	250	1,382	2,076	886	3,421	0	17	0	10,649	0
U. California, Davis	71	18,306	1,659	66	7,539	140	1,371	0	439	0	6,941	151
New Jersey Institute of Technology	72	18,121	1,694	0	168	395	1,105	0	0	2	14,307	450
U. California, Irvine	73	17,400	2,858	0	8,843	183	1,161	70	0	0	4,278	7
Stevens Institute of Technology	74	17,280	1,411	2,277	0	0	1,647	0	0	0	11,556	389
U. Massachusetts, Amherst	75	17,180	5,320	0	979	766	2,212	44	0	0	7,859	0
Oregon State U.	76	17,167	2,651	4,834	2,967	391	383	18	0	39	5,174	710
Boston U.	77	16,585	365	195	6,187	413	1,216	207	0	0	7,426	576
U. Nebraska, central administration	78	16,454	3,634	0	9,908	0	2	0	60	0	1,687	1,163
Rice U.	79	16,311	4,383	16	681	215	2,765	22	0	0	8,229	0
U. Southern Mississippi	80	15,828	191	3,569	13	60	5,502	0	4,291	0	2,161	41
Rutgers, State U. New Jersey, New Brunswick	81	15,508	0	201	4,320	1,113	2,631	0	64	0	7,179	0
Oregon Health and Science U.	82	15,415	0	0	14,589	0	0	0	0	0	826	0
U. Iowa	83	15,346	1,053	0	5,113	60	2,902	0	589	0	5,585	44
Indiana U., Bloomington	84	15,170	1,547	139	12,243	0	571	373	71	137	59	30
Temple U.	85	15,132	174	0	6,426	0	4,038	0	0	0	1,318	3,176
Case Western Reserve U.	86	15,037	0	0	7,253	18	1,999	0	51	16	5,700	0
U. Miami	87	14,765	0	5,279	7,994	0	275	366	0	0	851	0
Washington U., Saint Louis	88	14,733	1,044	0	11,232	0	603	313	0	0	1,526	15
Michigan State U.	89	14,519	2,998	0	2,731	362	552	467	76	16	6,903	414

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U. Colorado Denver and Anschutz Medical Campus	90	14,505	0	0	13,110	7	0	0	0	0	1,059	329
Emory U.	91	14,064	0	228	10,499	171	2,642	208	0	0	265	51
Baylor C. of Medicine	92	13,693	0	0	13,693	0	0	0	0	0	0	0
U. Texas, Dallas	93	13,688	2,680	0	1,948	0	2,466	0	76	0	6,518	0
Tufts U.	94	13,592	2,800	0	4,219	98	0	104	0	139	6,232	0
U. Tennessee, Knoxville	95	13,516	361	97	293	279	481	0	169	534	11,113	189
U. North Carolina, Chapel Hill	96	13,444	1,976	480	7,680	521	1,850	0	392	0	413	132
U. Missouri, Columbia	97	13,195	2,223	195	2,640	49	2,674	748	0	0	4,666	0
U. Massachusetts, Lowell	98	13,147	1,017	514	82	0	5,306	0	205	0	6,023	0
Icahn School of Medicine at Mount Sinai	99	11,889	0	0	11,889	0	0	0	0	0	0	0
Michigan Technological U.	100	11,860	113	1,043	0	0	253	0	0	0	10,303	148
Iowa State U.	101	11,859	489	0	3,058	0	2,138	144	0	139	5,859	32
Virginia Commonwealth U.	102	11,570	14	45	8,961	20	295	0	0	0	2,188	47
U.S. Naval Academy	103	11,083	868	844	0	478	1,740	0	0	0	7,013	140
U. Rochester	104	10,738	843	0	3,993	0	4,713	18	5	0	1,166	0
Auburn U., Auburn	105	10,592	738	0	1,635	0	391	107	5	22	7,616	78
U. Connecticut	106	10,573	233	361	2,029	73	765	0	0	0	7,112	0
U. Hawaii, system office	107	10,477	0	10,477	0	0	0	0	0	0	0	0
U.S. Military Academy	108	10,412	1,571	111	578	116	35	28	78	0	3,799	4,096
Rensselaer Polytechnic Institute	109	10,182	1,979	0	0	371	353	2,277	0	0	4,601	601
U. Texas, Arlington	110	10,128	440	3	359	1	1,288	0	0	0	8,022	15
Georgetown U.	111	9,956	416	0	9,164	0	193	0	183	0	0	0
U. Cincinnati	112	9,751	16	20	7,370	174	95	0	272	0	1,637	167
Drexel U.	113	9,200	519	0	1,394	0	80	0	0	124	7,083	0
U. Maine	114	9,192	0	58	43	0	603	0	0	67	8,421	0
Washington State U.	115	8,900	206	254	3,142	171	3,752	160	121	0	1,094	0
Colorado School of Mines	116	8,779	1,077	112	0	37	1,422	0	0	0	6,040	91
Wichita State U.	117	8,642	0	0	0	0	0	53	0	0	8,584	5
U. Oklahoma, Norman and Health Science Center	118	8,387	93	1,675	1,304	0	865	379	278	0	3,348	445
Wayne State U.	119	8,296	0	0	5,888	174	694	0	0	0	1,540	0
George Washington U.	120	8,153	228	0	658	38	243	185	1,340	1,972	3,465	24

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## Federally financed higher education R&amp;D expenditures, financed by the Department of Defense, ranked by DOD R&amp;D expenditures, by R&amp;D field: FY 2019

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New Mexico Institute of Mining and Technology	121	8,130	406	83	0	105	534	0	0	0	7,002	0
U. Texas Health Science Center, Houston	122	8,108	0	0	8,108	0	0	0	0	0	0	0
U. Illinois, Chicago	123	8,076	600	0	5,052	35	121	15	0	0	1,810	443
U. Alaska, Fairbanks	124	8,011	1	2,499	42	0	3,616	0	2	431	1,371	49
Louisiana State U., Baton Rouge	125	7,961	3,087	136	2,840	466	857	0	25	0	550	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	126	7,873	2,631	0	1,204	45	295	808	0	0	2,890	0
U. Texas Health Science Center, San Antonio	127	7,751	0	0	7,751	0	0	0	0	0	0	0
U. Nebraska, Lincoln	128	7,654	812	127	219	21	1,926	120	0	0	4,381	48
Florida International U.	129	7,295	549	433	539	0	879	0	599	0	4,296	0
U. Mississippi	130	7,263	42	17	2,494	11	3,439	0	9	0	1,251	0
Clemson U.	131	6,822	341	0	422	857	124	0	0	0	4,291	787
U. Texas M. D. Anderson Cancer Center	132	6,706	0	0	6,706	0	0	0	0	0	0	0
Medical C. Wisconsin	133	6,661	0	0	4,329	0	0	0	0	0	2,332	0
U. Texas, San Antonio	134	6,646	1,907	0	2,456	0	1,014	39	112	0	1,118	0
U. Kansas	135	6,412	706	580	1,729	304	84	0	252	0	2,484	273
U. North Texas, Denton	136	6,312	291	124	84	0	922	907	0	0	3,915	69
Texas Tech U.	137	6,281	63	0	599	0	257	320	0	0	4,959	83
U. Nevada, Reno	138	6,180	1,301	0	3,832	230	215	0	246	0	302	54
U. California, Riverside	139	5,971	1,227	0	401	0	111	353	0	0	3,879	0
Worcester Polytechnic Institute	140	5,945	855	0	0	354	0	0	0	0	4,669	67
U. Kentucky	141	5,902	151	0	4,031	0	139	63	0	0	1,500	18
Rochester Institute of Technology	142	5,782	256	0	0	86	1,639	0	0	0	3,619	182
U. Texas Southwestern Medical Center	143	5,770	0	0	5,770	0	0	0	0	0	0	0
SUNY, Stony Brook U.	144	5,589	1,850	0	1,045	358	960	0	0	90	1,286	0
SUNY, Binghamton U.	145	5,456	693	0	647	0	417	0	0	0	3,415	284
U. Rhode Island	146	5,439	0	1,697	552	0	320	0	0	0	1,943	927
Northern Arizona U.	147	5,352	22	0	4,594	0	234	365	0	0	124	13
Albert Einstein C. of Medicine	148	5,252	0	0	5,252	0	0	0	0	0	0	0
U. Massachusetts, Medical School	149	5,190	0	0	5,190	0	0	0	0	0	0	0

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Naval War C.	150	5,060	0	0	0	0	0	0	679	0	0	4,381
U. Missouri, Kansas City	151	5,040	129	0	45	0	620	0	0	0	4,238	8
Old Dominion U.	152	5,021	96	0	161	2,351	48	45	0	0	2,012	308
North Carolina Agricultural and Technical State U.	153	4,913	529	0	3	114	181	0	0	0	4,060	26
U. North Carolina, Charlotte	154	4,767	1,325	0	255	96	802	68	682	0	1,539	0
Southern Methodist U.	155	4,744	163	2,805	0	154	0	0	0	0	1,468	154
Desert Research Institute	156	4,466	0	4,466	0	0	0	0	0	0	0	0
Brigham Young U., Provo	157	4,465	779	0	675	19	796	0	0	0	957	1,239
Georgia State U.	158	4,449	0	0	851	23	2,531	0	607	0	0	437
U. South Florida, Tampa	159	4,436	860	0	1,580	17	346	7	85	0	923	618
U. Texas Medical Branch	160	4,424	0	0	4,424	0	0	0	0	0	0	0
U. Houston	161	4,397	262	0	719	253	164	166	103	0	2,730	0
U. Nebraska, Medical Center	162	4,365	0	0	4,365	0	0	0	0	0	0	0
National Defense U.	163	4,231	0	0	0	0	0	0	2,155	0	0	2,076
U. Oregon	164	4,166	422	0	931	0	754	643	286	0	98	1,032
San Diego State U.	165	3,925	385	430	726	127	210	0	50	0	1,914	83
West Virginia U.	166	3,894	1,103	0	957	0	133	0	0	82	1,448	171
Syracuse U.	167	3,882	0	0	203	0	500	0	9	0	2,886	284
Tulane U.	168	3,849	1,015	250	2,448	0	136	0	0	0	0	0
Lehigh U.	169	3,725	436	0	0	0	0	0	0	0	3,213	76
Nova Southeastern U.	170	3,622	0	1,494	1,783	0	0	345	0	0	0	0
U. South Carolina, Columbia	171	3,607	139	146	405	333	0	0	532	0	2,017	35
Missouri U. of Science and Technology	172	3,595	22	0	12	0	90	7	0	0	3,464	0
Kansas State U.	173	3,562	456	0	1,141	0	321	0	80	0	1,488	76
Cleveland State U.	174	3,541	0	0	1,425	0	0	15	0	0	2,101	0
Florida Institute of Technology	175	3,497	1,714	175	66	0	28	361	0	0	1,118	35
U. Alabama, Tuscaloosa	176	3,428	28	0	0	0	427	76	340	0	2,338	219
U. Georgia	177	3,413	326	0	1,836	0	257	202	127	0	659	6
Thomas Jefferson U.	178	3,288	0	0	3,288	0	0	0	0	0	0	0
Florida Atlantic U.	179	3,253	27	0	1,142	118	112	0	0	0	1,854	0
Missouri State U.	180	3,237	2	0	0	0	0	0	59	0	3,176	0
Medical U. South Carolina	181	3,218	0	0	3,218	0	0	0	0	0	0	0

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U. Louisville	182	3,200	0	0	1,959	0	71	10	0	0	1,160	0
U. New Hampshire	183	3,195	0	1,465	262	0	147	0	0	0	1,303	18
SUNY, U. Albany	184	3,128	1,653	606	397	0	0	69	218	0	0	185
U. California, Santa Cruz	185	3,108	2	1,121	6	0	6	0	149	0	1,824	0
Boston C.	186	3,095	0	2,145	228	3	719	0	0	0	0	0
Oklahoma State U., Stillwater	187	3,062	4	0	514	55	924	0	0	0	1,565	0
U. Toledo	188	3,033	0	0	577	0	2,033	0	0	0	423	0
U. Maryland, Baltimore County	189	3,020	746	0	295	10	549	0	0	0	1,415	5
Montana Technological U.	190	3,017	0	0	79	0	0	0	0	0	2,938	0
U. Memphis	191	2,986	2,219	67	101	0	0	231	104	0	148	116
U. Texas, El Paso	192	2,937	476	106	126	12	12	65	472	0	1,668	0
U. Tennessee, Knoxville, Institute of Agriculture	193	2,846	0	0	2,783	0	0	0	0	2	61	0
U. Tennessee, Health Science Center	194	2,832	0	0	2,832	0	0	0	0	0	0	0
Rockefeller U.	195	2,830	0	272	2,558	0	0	0	0	0	0	0
U. Idaho	196	2,795	0	36	1,417	0	445	0	129	0	768	0
Texas State U.	197	2,752	192	1,877	2	0	321	0	358	0	2	0
U. Arkansas, Little Rock	198	2,712	1,444	0	1,268	0	0	0	0	0	0	0
U. Arkansas, Fayetteville	199	2,668	371	0	365	0	831	0	0	0	1,101	0
Howard U.	200	2,649	122	0	514	0	122	38	0	0	1,853	0
Youngstown State U.	201	2,591	0	0	0	0	0	0	0	0	2,591	0
Portland State U.	202	2,579	342	59	404	162	0	283	0	0	1,130	199
Scripps Research Institute	203	2,444	0	0	2,444	0	0	0	0	0	0	0
Rowan U.	204	2,436	0	0	0	0	0	0	51	0	2,385	0
U. Akron	205	2,376	0	0	318	10	969	0	0	0	1,079	0
Norfolk State U.	206	2,341	1,210	0	0	0	629	0	0	0	502	0
U. Montana, Missoula	207	2,311	0	0	1,869	0	0	0	442	0	0	0
Clarkson U.	208	2,295	65	0	194	455	0	0	0	0	1,512	69
Jackson State U.	209	2,293	34	0	1	25	772	0	0	0	1,461	0
Loma Linda U.	210	2,258	0	0	2,258	0	0	0	0	0	0	0
U. California, Merced	211	1,966	157	0	0	430	991	0	125	0	263	0
CUNY, Advanced Science Research Center	212	1,944	0	0	0	0	1,944	0	0	0	0	0





TABLE 59

## Federally financed higher education R&amp;D expenditures, financed by the Department of Defense, ranked by DOD R&amp;D expenditures, by R&amp;D field: FY 2019

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. New Orleans	245	1,145	428	0	0	0	561	0	0	0	156	0
Augusta U.	246	1,102	0	0	1,102	0	0	0	0	0	0	0
Florida A&M U.	247	1,041	91	0	4	0	142	0	0	0	804	0
Rutgers, State U. New Jersey, Newark	248	1,036	471	450	19	0	0	0	0	0	0	96
Cold Spring Harbor Laboratory	249	1,013	0	0	1,013	0	0	0	0	0	0	0
Alfred U.	250	967	0	0	0	0	0	0	0	0	967	0
U. Tulsa	251	942	863	0	0	0	40	0	0	0	39	0
San Jose State U.	252	924	0	661	0	0	157	0	0	0	106	0
Tennessee Technological U.	253	921	7	0	285	0	0	0	0	0	472	157
U. Northern Iowa	254	914	0	0	0	0	914	0	0	0	0	0
U. Massachusetts, Boston	255	894	0	0	489	0	168	0	0	0	237	0
California State U., Northridge	256	867	0	0	0	108	423	0	0	0	336	0
Wesleyan U.	257	861	0	0	0	208	540	113	0	0	0	0
Baylor U.	258	828	0	0	117	0	381	0	0	0	330	0
Rosalind Franklin U. of Medicine and Science	259	825	0	0	825	0	0	0	0	0	0	0
New School	260	823	0	0	0	0	0	823	0	0	0	0
Creighton U.	261	797	240	39	238	45	200	10	18	0	0	7
Towson U.	262	792	95	368	0	0	329	0	0	0	0	0
Miami U.	263	776	18	61	0	103	60	211	0	0	223	100
Loyola U., Chicago	264	775	0	0	775	0	0	0	0	0	0	0
U. North Dakota	265	768	0	130	365	0	0	0	0	0	273	0
Brandeis U.	266	767	419	0	0	0	141	0	207	0	0	0
U. Maryland Center for Environmental Science	267	750	0	187	563	0	0	0	0	0	0	0
U. Wisconsin-Milwaukee	268	739	0	0	0	0	99	0	0	0	640	0
Van Andel Research Institute	269	720	0	0	720	0	0	0	0	0	0	0
Bryn Mawr C.	270	714	0	0	0	0	0	0	0	0	0	714
U. of the Incarnate Word	270	714	0	0	520	0	194	0	0	0	0	0
Embry-Riddle Aeronautical U.	272	678	0	0	0	0	1	0	0	0	677	0
Clark Atlanta U.	273	671	0	0	451	0	220	0	0	0	0	0
East Carolina U.	274	659	9	51	260	0	0	0	59	0	69	211
U. Denver	275	633	0	0	17	0	4	0	303	0	309	0

TABLE 59

## Federally financed higher education R&amp;D expenditures, financed by the Department of Defense, ranked by DOD R&amp;D expenditures, by R&amp;D field: FY 2019

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Fisk U.	276	625	0	0	625	0	0	0	0	0	0	0
Chapman U.	277	611	0	0	121	0	490	0	0	0	0	0
U. Colorado Colorado Springs	278	600	141	14	0	0	0	105	0	13	295	32
U. Washington, Bothell	279	591	474	0	0	0	0	0	0	0	0	117
American U.	280	582	0	0	0	148	0	0	182	240	0	12
Texas Tech U., Health Sciences Center	281	577	0	0	577	0	0	0	0	0	0	0
U. Louisiana, Lafayette	282	570	0	0	0	0	22	0	0	317	231	0
Rush U.	283	554	0	0	554	0	0	0	0	0	0	0
Xavier U. Louisiana	284	551	45	0	0	0	208	0	0	0	298	0
Purdue U., Northwest	285	546	441	0	0	0	0	0	0	0	53	52
Texas Tech U., Health Sciences Center, El Paso	286	507	0	0	507	0	0	0	0	0	0	0
CUNY, Hunter C.	287	496	0	0	123	0	373	0	0	0	0	0
Louisiana State U., Health Sciences Center, New Orleans	288	488	0	0	488	0	0	0	0	0	0	0
Villanova U.	289	483	58	0	0	17	0	0	0	0	408	0
U. North Carolina, Wilmington	290	480	0	0	117	0	0	0	0	0	315	48
U. South Alabama	291	475	94	0	161	0	166	0	0	0	54	0
Oakland U.	292	474	188	0	0	0	112	0	52	0	122	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	293	471	83	0	40	0	0	0	0	0	348	0
Texas A&M U.-Kingsville	294	463	0	0	102	0	46	0	0	0	315	0
Winston-Salem State U.	295	453	0	0	0	0	0	0	453	0	0	0
California Polytechnic State U., San Luis Obispo	296	440	96	98	0	0	0	0	0	0	246	0
Fordham U.	297	436	160	0	0	0	94	182	0	0	0	0
Toyota Technological Institute, Chicago	298	434	434	0	0	0	0	0	0	0	0	0
Fayetteville State U.	299	432	0	0	97	0	200	0	135	0	0	0
Tennessee State U.	300	426	82	0	0	0	0	0	0	0	344	0
New York Medical C.	301	425	0	0	425	0	0	0	0	0	0	0
U.S. Army War C.	302	423	0	0	0	0	0	0	0	0	0	423
SUNY, Downstate Medical Center	303	411	0	0	411	0	0	0	0	0	0	0
Duquesne U.	304	398	0	0	389	9	0	0	0	0	0	0

TABLE 59

## Federally financed higher education R&amp;D expenditures, financed by the Department of Defense, ranked by DOD R&amp;D expenditures, by R&amp;D field: FY 2019

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wyoming	305	397	63	0	179	0	0	0	0	0	155	0
Savannah State U.	306	381	0	21	49	0	23	0	0	0	288	0
Claremont Graduate U.	307	370	26	0	0	0	0	37	307	0	0	0
Catholic U. of America	308	362	0	0	140	0	0	0	0	0	222	0
Southern U. and A&M C., Baton Rouge	309	354	109	0	0	0	112	0	0	0	79	54
Albany Medical C.	310	352	0	0	352	0	0	0	0	0	0	0
U. North Georgia	311	342	0	0	70	0	44	0	0	0	0	228
U. North Carolina, Greensboro	312	332	0	0	316	16	0	0	0	0	0	0
U. Tennessee, Chattanooga	313	327	0	0	0	0	0	22	0	0	305	0
U. of the District of Columbia	314	323	0	0	0	0	0	0	0	0	323	0
Western Illinois U.	315	321	0	0	0	0	0	0	0	0	321	0
Canisius C.	316	318	0	0	0	0	0	0	0	318	0	0
Louisiana State U., Health Sciences Center, Shreveport	316	318	0	0	318	0	0	0	0	0	0	0
San Francisco State U.	316	318	0	0	0	0	107	0	0	0	211	0
West Chester U. Pennsylvania	316	318	0	0	317	0	1	0	0	0	0	0
Morehouse C.	320	314	314	0	0	0	0	0	0	0	0	0
Delaware State U.	321	303	0	0	0	125	0	0	0	0	178	0
U. Missouri, Saint Louis	322	287	0	0	248	0	0	0	0	0	0	39
CUNY, Baruch C.	323	285	0	0	170	0	0	62	53	0	0	0
CUNY, system office	324	284	284	0	0	0	0	0	0	0	0	0
Sam Houston State U.	325	269	0	0	0	0	269	0	0	0	0	0
Stockton U.	325	269	0	267	0	0	2	0	0	0	0	0
Idaho State U.	327	268	0	30	0	0	216	22	0	0	0	0
South Dakota State U.	328	267	0	0	12	0	149	0	0	0	106	0
Central State U.	329	254	0	4	0	0	0	0	0	0	250	0
Florida Polytechnic U.	330	253	0	0	0	0	0	0	0	0	253	0
U. Michigan, Dearborn	330	253	0	0	0	59	0	0	0	0	194	0
Connecticut C.	332	227	0	0	0	0	227	0	0	0	0	0
CUNY, Medgar Evers C.	333	222	0	0	0	0	222	0	0	0	0	0
Bucknell U.	334	221	0	0	0	0	0	0	0	0	89	132
North Carolina Central U.	334	221	0	103	0	0	114	0	0	0	4	0
Tuskegee U.	334	221	0	0	35	0	0	0	0	0	186	0

TABLE 59

## Federally financed higher education R&amp;D expenditures, financed by the Department of Defense, ranked by DOD R&amp;D expenditures, by R&amp;D field: FY 2019

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Carolina, general administration	337	213	0	0	24	0	0	0	0	0	189	0
Marquette U.	338	211	0	0	0	0	0	0	0	0	211	0
Eastern Virginia Medical School	339	210	0	0	210	0	0	0	0	0	0	0
U. Wisconsin-Oshkosh	340	201	i 21	i 5	i 43	i 2	i 13	i 2	i 1	i 0	i 113	i 1
Marshall U.	341	199	25	0	136	0	34	0	0	0	4	0
Texas A&M U.-Corpus Christi	341	199	0	0	102	0	0	0	0	0	97	0
New York Institute of Technology	343	197	0	0	0	0	0	0	0	0	197	0
California State U., Los Angeles	344	182	0	0	0	0	138	0	0	0	44	0
Polytechnic U. Puerto Rico	345	179	179	0	0	0	0	0	0	0	0	0
California State U., Chico	346	176	0	0	0	0	0	0	0	0	154	22
Calvin U.	347	170	0	0	0	32	138	0	0	0	0	0
U. Washington, Tacoma	348	167	2	151	0	0	0	0	0	0	0	14
U. Puerto Rico, Rio Piedras	349	166	0	0	0	166	0	0	0	0	0	0
Georgia Southern U.	350	162	60	38	0	0	0	0	0	64	0	0
U. South Dakota	350	162	0	0	105	0	7	0	0	0	0	50
Western U. of Health Sciences	352	154	0	0	154	0	0	0	0	0	0	0
Liberty U.	353	150	150	0	0	0	0	0	0	0	0	0
St. John's U., New York	354	149	86	0	0	0	63	0	0	0	0	0
U. Hawaii, Hilo	355	144	0	108	36	0	0	0	0	0	0	0
California State U., Long Beach	356	140	0	0	0	0	0	0	0	0	140	0
U. North Texas, Health Science Center	357	136	0	0	136	0	0	0	0	0	0	0
U. San Diego	358	135	0	0	6	72	53	0	0	0	0	4
CUNY, New York City C. of Technology	359	128	0	0	0	19	93	0	0	0	16	0
Eastern Michigan U.	359	128	0	0	0	0	128	0	0	0	0	0
Oregon Institute of Technology	361	125	i 11	i 0	i 6	i 2	i 0	i 1	i 0	i 0	i 89	i 16
Saginaw Valley State U.	362	124	0	0	0	0	0	0	0	0	124	0
U. Wisconsin-Superior	362	124	0	0	124	0	0	0	0	0	0	0
U. Minnesota, Duluth	364	123	0	0	59	40	0	0	0	0	24	0
U. Wisconsin-Green Bay	365	120	i 14	i 3	i 27	i 1	i 8	i 1	i 1	i 0	i 65	i 0
California State U., Bakersfield	366	119	0	0	1	0	0	0	50	0	68	0
Central Michigan U.	367	118	0	0	5	0	113	0	0	0	0	0

TABLE 59

## Federally financed higher education R&amp;D expenditures, financed by the Department of Defense, ranked by DOD R&amp;D expenditures, by R&amp;D field: FY 2019

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Lafayette C.	368	117	117	0	0	0	0	0	0	0	0	0
Arkansas State U., Jonesboro	369	115	0	0	0	0	115	0	0	0	0	0
Pomona C.	369	115	0	0	0	23	0	0	92	0	0	0
Keck Graduate Institute	371	112	i 30	i 0	i 30	i 6	i 0	i 0	i 0	i 0	i 43	i 3
U. Wisconsin-Stevens Point	372	108	i 18	i 4	i 39	i 2	i 10	i 2	i 1	i 0	i 30	i 2
California Lutheran U.	373	107	0	0	107	0	0	0	0	0	0	0
U. Wisconsin-Platteville	374	106	i 8	i 0	i 5	i 1	i 6	i 0	i 13	i 0	i 57	i 16
U. Arkansas, Pine Bluff	375	105	0	0	103	0	2	0	0	0	0	0
SUNY, C. Plattsburgh	376	104	0	0	104	0	0	0	0	0	0	0
Coastal Carolina U.	377	103	0	103	0	0	0	0	0	0	0	0
Fort Valley State U.	378	101	101	0	0	0	0	0	0	0	0	0
California State U., Monterey Bay	379	100	0	0	100	0	0	0	0	0	0	0
Ball State U.	380	99	86	0	0	0	2	0	0	0	0	11
Biola U.	380	99	i 16	i 0	i 16	i 3	i 13	i 1	i 2	i 0	i 48	i 0
C. Wooster	382	98	0	0	0	0	98	0	0	0	0	0
Clark U.	383	97	0	0	0	0	0	97	0	0	0	0
U. North Florida	384	94	0	0	0	0	0	0	0	0	35	59
St. Cloud State U.	385	88	86	0	0	0	2	0	0	0	0	0
Western Kentucky U.	385	88	0	0	0	0	0	0	0	0	0	88
Fort Lewis C.	387	86	0	0	0	0	0	0	0	0	86	0
Bowling Green State U.	388	84	0	0	0	0	0	84	0	0	0	0
Pepperdine U.	388	84	0	0	84	0	0	0	0	0	0	0
Southern Illinois U., Edwardsville	388	84	0	0	0	0	84	0	0	0	0	0
Colgate U.	391	82	82	0	0	0	0	0	0	0	0	0
Santa Clara U.	392	80	16	0	0	0	0	0	0	0	64	0
DePaul U.	393	79	79	0	0	0	0	0	0	0	0	0
Elon U.	394	78	0	0	0	78	0	0	0	0	0	0
CUNY, Queens C.	395	75	0	0	0	34	41	0	0	0	0	0
Appalachian State U.	396	73	0	0	0	0	73	0	0	0	0	0
Bowie State U.	396	73	73	0	0	0	0	0	0	0	0	0
Azusa Pacific U.	398	72	0	0	49	0	0	23	0	0	0	0
California State Polytechnic U., Pomona	398	72	72	0	0	0	0	0	0	0	0	0
CUNY, York C.	400	71	0	0	0	0	71	0	0	0	0	0

TABLE 59

## Federally financed higher education R&amp;D expenditures, financed by the Department of Defense, ranked by DOD R&amp;D expenditures, by R&amp;D field: FY 2019

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Occidental C.	400	71	0	71	0	0	0	0	0	0	0	0
Grand Valley State U.	402	68	0	0	0	68	0	0	0	0	0	0
SUNY, C. Brockport	403	67	0	0	61	0	6	0	0	0	0	0
California State U., Sacramento	404	65	38	0	0	0	0	0	27	0	0	0
Smith C.	404	65	65	0	0	0	0	0	0	0	0	0
Purdue U., Fort Wayne	406	64	0	0	59	0	0	0	0	0	5	0
Mercyhurst U.	407	63	i 19	i 1	i 19	i 4	i 18	i 1	i 1	i 0	i 0	i 0
SUNY, C. of Environmental Science and Forestry	407	63	0	0	63	0	0	0	0	0	0	0
Christopher Newport U.	409	61	0	0	0	0	0	0	0	0	61	0
U. of the Virgin Islands	409	61	0	0	0	0	0	0	0	0	61	0
Williams C.	411	60	0	0	0	5	55	0	0	0	0	0
Middlebury C.	412	59	59	0	0	0	0	0	0	0	0	0
U. Central Oklahoma	413	58	0	0	0	0	0	0	0	58	0	0
Florida Gulf Coast U.	414	57	0	0	0	0	0	0	57	0	0	0
U. of the Pacific	415	56	0	0	56	0	0	0	0	0	0	0
U. Detroit Mercy	416	55	0	0	0	0	0	0	0	0	55	0
Grambling State U.	417	52	0	0	0	0	52	0	0	0	0	0
U. Wisconsin-La Crosse	417	52	0	0	0	0	0	0	52	0	0	0
Texas Christian U.	419	50	0	0	0	0	0	0	0	0	0	50
Barnard C.	420	46	0	0	0	0	0	0	46	0	0	0
Benedict C.	421	44	0	0	0	0	44	0	0	0	0	0
Minnesota State U., Mankato	421	44	0	0	0	0	44	0	0	0	0	0
California State U., Fullerton	423	43	0	0	43	0	0	0	0	0	0	0
Lamar U.	424	42	0	0	0	0	0	0	0	0	42	0
Western Washington U.	424	42	0	0	0	0	0	0	0	0	42	0
West Texas A&M U.	426	38	0	0	0	0	0	0	0	0	0	38
Pennsylvania State U., Behrend	427	37	4	0	0	0	0	0	0	0	33	0
Yeshiva U.	428	34	0	0	34	0	0	0	0	0	0	0
Lawrence Technological U.	429	31	31	0	0	0	0	0	0	0	0	0
Middle Tennessee State U.	429	31	0	0	31	0	0	0	0	0	0	0
Bethune-Cookman U.	431	30	0	30	0	0	0	0	0	0	0	0
C. Charleston	431	30	0	0	30	0	0	0	0	0	0	0
Marshall B. Ketchum U.	433	29	i 0	i 0	i 29	i 0	i 0	i 0	i 0	i 0	i 0	i 0



TABLE 59

## Federally financed higher education R&amp;D expenditures, financed by the Department of Defense, ranked by DOD R&amp;D expenditures, by R&amp;D field: FY 2019

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rhode Island School of Design	463	3 i	2 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i
Eastern Washington U.	464	2	0	0	0	0	0	0	2	0	0	0
U. Richmond	464	2	0	0	0	2	0	0	0	0	0	0
Whitman C.	464	2	0	2	0	0	0	0	0	0	0	0
Montclair State U.	467	1	0	0	1	0	0	0	0	0	0	0

i = imputed.

DOD = Department of Defense; nec = not elsewhere classified; S&amp;E = science and engineering.

<sup>a</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,186,143 thousand in R&D expenditures financed by DOD in FY 2019.<sup>b</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.**Note(s):**

Institutions reporting zero expenditures in ranked total for FY 2019 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2019.