

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All 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	-	5,053,576	144,088	74,941	3,283,542	13,950	158,714	14,723	53,735	42,475	1,113,463	153,945
Duke U.	1	236,292	76	354	228,478	190	194	10	481	0	4,293	2,216
Massachusetts Institute of Technology	2	196,810	25,879	3,106	15,154	1,413	18,226	0	4,623	11,887	77,204	39,318
U. Pennsylvania	3	158,554	685	16	153,761	0	920	58	251	0	2,528	335
Ohio State U.	4	157,885	4,756	145	98,789	4	478	0	313	6,835	44,867	1,698
U. Texas M. D. Anderson Cancer Center	5	156,237	0	0	154,300	112	1,797	28	0	0	0	0
Stanford U.	6	136,065	9,307	1,081	91,278	0	4,838	526	591	0	28,122	322
SUNY, Polytechnic Institute	7	110,306	0	0	41	0	0	0	0	0	110,265	0
Johns Hopkins U. ^a	8	105,805	1,532	159	96,645	127	488	0	260	320	6,132	142
U. California, San Francisco	9	103,463	0	0	97,857	0	5,606	0	0	0	0	0
U. Michigan, Ann Arbor	10	98,997	586	2	56,471	178	1,656	198	1,358	0	37,507	1,041
Washington U., Saint Louis	11	96,311	164	0	93,835	0	338	0	0	0	310	1,664
U. California, San Diego	12	86,865	730	4,876	66,223	0	1,725	1,031	118	319	11,843	0
Wichita State U.	13	82,008	0	0	120	0	2	0	0	0	74,551	7,335
Columbia U. in the City of New York	14	78,227	711	653	71,055	0	547	139	0	0	4,364	758
U. California, Los Angeles	15	76,217	1,269	514	60,451	107	2,108	148	183	892	8,154	2,391
U. Texas, Austin	16	75,638	1,971	10,472	7,958	647	3,993	44	527	0	37,227	12,799
U. California, Berkeley	17	75,009	749	304	14,603	420	6,124	499	4,086	7,655	37,169	3,400
Yale U.	18	74,583	10	0	71,241	0	890	0	5	0	1,174	1,263
Icahn School of Medicine at Mount Sinai	19	69,816	0	0	69,816	0	0	0	0	0	0	0
Georgia Institute of Technology	20	66,782	5,415	269	4,941	2	1,531	60	161	0	52,863	1,540
Vanderbilt U. and Vanderbilt U. Medical Center	21	60,971	0	2	57,510	0	308	3	578	0	1,777	793
Purdue U., West Lafayette	22	60,411	1,666	78	10,748	96	5,389	0	27	87	37,718	4,602
U. Alabama, Birmingham	23	60,048	32	93	56,056	0	259	0	0	0	3,608	0
U. Washington, Seattle	24	58,211	1,473	579	46,279	0	919	14	44	0	8,637	266
Cornell U.	25	56,461	1,665	0	49,601	0	1,653	46	0	0	3,210	286
North Carolina State U.	26	55,085	729	1,193	24,541	897	777	418	891	1,016	20,487	4,136
Northwestern U.	27	53,528	843	0	45,807	0	1,045	0	228	731	4,424	450
U. California, Davis	28	51,284	981	642	38,586	0	1,622	0	781	0	7,854	818

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U. Colorado Denver and Anschutz Medical Campus	29	50,510	289	0	50,044	0	0	95	0	0	9	73
U. Minnesota, Twin Cities	30	50,423	42	11	39,648	313	1,438	222	1,577	36	6,812	324
Emory U.	31	50,408	0	11	49,356	429	92	0	0	0	252	268
New York U.	32	50,280	609	64	40,962	895	241	526	2,022	0	1,507	3,454
U. Louisiana, Lafayette	33	48,344	438	315	40,062	1,323	90	59	135	56	4,627	1,239
Harvard U.	34	48,168	1,334	3,042	30,359	49	4,594	54	2,127	228	5,700	681
U. Southern California	35	47,241	1,286	0	40,031	0	1,263	0	1,848	0	1,961	852
U. North Carolina, Chapel Hill	36	44,962	444	318	41,609	0	1,309	23	786	0	333	140
Virginia Polytechnic Institute and State U.	37	43,433	366	68	7,529	134	1,891	253	449	0	32,399	344
Rutgers, State U. New Jersey, New Brunswick	38	42,618	171	189	34,780	16	1,851	234	243	0	4,035	1,099
Texas A&M U., College Station and Health Science Center	39	41,351	167	1,138	11,324	96	1,539	0	335	131	22,397	4,224
U. Chicago	40	40,457	34	0	36,871	0	1,026	0	80	0	2,432	14
U. Cincinnati	41	40,435	15	0	32,221	85	330	0	2,608	581	4,385	210
U. Illinois, Urbana-Champaign	42	40,128	11,621	195	12,839	30	1,282	583	18	0	11,860	1,700
Scripps Research Institute	43	39,161	0	0	39,161	0	0	0	0	0	0	0
U. Utah	44	39,084	982	1,311	33,317	0	918	1,032	38	32	1,342	112
U. Florida	45	36,623	249	0	30,872	0	888	23	0	0	4,034	557
Carnegie Mellon U.	46	36,414	28,638	0	58	0	170	0	231	0	7,317	0
Oregon Health and Science U.	47	36,000	0	0	35,948	0	0	0	0	0	52	0
Pennsylvania State U., University Park and Hershey Medical Center	48	32,949	1,054	210	12,649	388	3,841	486	675	0	11,307	2,339
SUNY, U. Buffalo	49	31,802	66	0	16,545	0	104	0	207	0	14,383	497
U. Texas Southwestern Medical Center	50	31,317	0	0	31,317	0	0	0	0	0	0	0
Baylor C. of Medicine	51	31,149	0	0	31,149	0	0	0	0	0	0	0
U. Miami	52	30,997	0	508	29,978	0	0	0	138	0	373	0
U. Maryland ^b	53	30,775	609	168	24,676	12	42	1	601	173	4,367	126
U. Wisconsin-Madison	54	26,518	329	84	19,309	53	1,420	7	19	611	4,585	101
U. California, Irvine	55	26,292	1,265	62	17,197	0	2,115	301	87	0	5,256	9
Indiana U., Bloomington	56	26,165	266	124	24,377	97	407	41	558	80	112	103
U. Virginia, Charlottesville	57	25,830	487	19	18,685	0	264	195	185	5	5,800	190

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U. Pittsburgh, Pittsburgh	58	25,312	51	125	24,446	0	42	0	0	0	619	29
U. Rochester	59	24,370	21	0	22,580	0	766	71	0	372	560	0
Iowa State U.	60	23,851	135	0	10,836	78	646	8	0	18	11,954	176
U. Arizona	61	22,854	270	729	13,226	29	3,867	0	21	0	4,586	126
Medical C. Wisconsin	62	22,323	0	0	22,323	0	0	0	0	0	0	0
U. Iowa	63	22,153	119	0	17,770	0	169	0	98	2	3,313	682
U. Kansas	64	22,073	27	714	19,016	0	49	85	4	4	2,003	171
Boston U.	65	21,793	1,690	2	18,152	0	272	10	0	0	1,587	80
U. Texas Health Science Center, Houston	66	20,549	0	0	20,549	0	0	0	0	0	0	0
Medical U. South Carolina	67	19,855	0	0	19,855	0	0	0	0	0	0	0
U. California, Santa Barbara	68	19,264	1,704	3,315	783	0	4,967	340	121	0	8,033	1
Thomas Jefferson U.	69	18,910	0	0	18,910	0	0	0	0	0	0	0
Clemson U.	70	18,812	433	0	2,803	14	245	1	158	0	11,759	3,399
U. Nebraska, Lincoln	71	18,157	25	21	11,897	79	948	0	42	117	4,841	187
Temple U.	72	17,849	327	0	16,958	0	46	6	6	0	78	428
Princeton U.	73	17,701	1,430	2,620	2,451	478	3,502	4	1,134	0	6,056	26
Arizona State U.	74	17,112	1,802	18	1,866	19	478	18	258	2,000	9,485	1,168
U. Massachusetts, Medical School	75	16,386	0	0	16,386	0	0	0	0	0	0	0
Texas Tech U.	76	16,210	158	679	5,456	115	1,572	890	1,266	0	2,929	3,145
U. South Florida, Tampa	77	15,408	127	359	13,625	0	170	43	56	0	915	113
California Institute of Technology	78	15,052	535	655	2,850	0	7,273	0	0	0	3,739	0
U. Oklahoma, Norman and Health Science Center	79	14,954	121	728	10,863	0	26	13	85	0	3,055	63
Georgetown U.	80	14,835	0	0	13,850	0	154	0	256	0	0	575
Michigan State U.	81	14,207	564	0	6,689	41	231	25	167	96	4,199	2,195
Rensselaer Polytechnic Institute	82	14,189	2,721	49	73	340	2,902	490	0	0	7,410	204
Washington State U.	83	13,984	83	202	10,243	0	405	1	560	93	2,004	393
U. Illinois, Chicago	84	13,892	402	0	12,472	0	4	56	0	0	935	23
Rush U.	85	13,761	0	0	13,761	0	0	0	0	0	0	0
Wake Forest U.	86	13,689	0	0	13,663	0	0	0	0	0	0	26
Oklahoma State U., Stillwater	87	13,185	94	13	8,745	0	226	106	13	45	2,986	957
Colorado State U., Fort Collins	88	13,089	32	256	8,179	0	1,897	0	0	72	2,650	3

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Louisiana State U., Baton Rouge	89	12,178	192	921	6,963	19	574	41	96	17	3,017	338
U. Connecticut	90	11,802	763	57	4,529	280	613	252	130	0	5,162	16
U. Georgia	91	11,610	52	239	9,530	64	39	247	264	0	1,047	128
U. Central Florida	92	11,438	2,400	262	716	197	3,280	0	106	0	3,259	1,218
U. Kentucky	93	11,297	0	414	9,665	0	66	0	0	0	1,146	6
Tufts U.	94	11,123	0	183	8,183	74	0	0	503	272	1,777	131
Rice U.	95	10,814	65	2	46	1,382	4,874	43	175	0	4,227	0
Colorado School of Mines	96	10,556	159	2,123	340	0	350	0	0	0	5,612	1,972
U. North Dakota	97	10,391	0	18	76	0	27	0	0	0	10,231	39
U. Massachusetts, Amherst	98	10,026	1,887	107	1,864	1	2,027	60	100	39	3,663	278
Virginia Commonwealth U.	99	9,959	0	36	9,328	15	43	31	96	0	405	5
U. Nebraska, Medical Center	100	9,896	0	0	9,896	0	0	0	0	0	0	0
U. Tulsa	101	9,628	184	0	46	18	0	160	0	0	9,220	0
U. Notre Dame	102	9,451	469	0	220	0	284	0	124	109	8,220	25
U. Colorado Boulder	103	9,389	379	255	904	0	1,340	36	79	189	5,797	410
George Mason U.	104	8,900	314	611	748	313	39	242	2,348	0	536	3,749
U. New Hampshire	105	8,680	0	318	922	0	229	0	1,015	0	6,196	0
U. Houston	106	8,597	134	1,431	1,395	0	49	362	1	109	3,142	1,974
U. Texas Health Science Center, San Antonio	107	8,499	0	0	8,499	0	0	0	0	0	0	0
Case Western Reserve U.	108	8,363	0	0	5,980	0	493	0	0	0	1,890	0
U. California, Riverside	109	8,305	587	171	3,327	117	432	1	49	33	3,588	0
Northeastern U.	110	7,629	446	15	1,759	0	791	460	430	0	3,714	14
Rockefeller U.	111	7,518	0	0	7,518	0	0	0	0	0	0	0
U. Louisville	112	7,475	0	0	5,812	0	200	0	0	0	1,463	0
Southern Illinois U., Carbondale	113	7,394	44	56	5,888	0	80	0	0	127	1,199	0
U. Arkansas, Fayetteville	114	7,274	259	197	3,987	0	19	5	35	0	2,515	257
Michigan Technological U.	115	7,155	0	1,254	78	0	87	0	0	0	5,736	0
Kansas State U.	116	7,099	25	0	5,352	2	374	0	0	2	745	599
Utah State U.	117	7,063	22	39	810	0	328	15	0	0	5,842	7
Mercer U.	118	7,020	0	0	679	0	0	0	0	0	6,341	0
Wayne State U.	119	6,995	21	0	5,445	111	501	0	9	21	633	254
U. Arkansas for Medical Sciences	120	6,877	0	0	6,877	0	0	0	0	0	0	0
U. Missouri, Columbia	121	6,551	30	0	5,757	0	30	0	0	0	597	137

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Auburn U., Auburn	122	6,232	8	97	2,947	0	77	4	0	260	2,694	145
Dartmouth C. and Dartmouth Hitchcock Medical Center	123	6,182	0	0	5,318	53	89	0	0	20	702	0
U. Tennessee, Knoxville	124	6,142	650	39	109	0	393	3	12	0	4,929	7
U. Southern Mississippi	125	6,073	0	4,029	13	0	1,995	0	31	0	0	5
U. Delaware	126	5,944	0	965	885	98	677	46	188	138	2,947	0
Oregon State U.	127	5,833	6	272	2,777	0	198	0	18	11	2,551	0
Syracuse U.	128	5,820	13	271	0	0	49	2	5	0	277	5,203
West Virginia U.	129	5,808	0	223	2,884	0	36	0	15	0	2,648	2
SUNY, Stony Brook U.	130	5,739	168	22	3,589	30	449	9	0	474	998	0
U. California, Santa Cruz	131	5,452	838	533	924	12	478	63	693	0	1,781	130
U. South Carolina, Columbia	132	5,411	27	0	1,339	0	28	0	138	0	3,547	332
U. Texas, San Antonio	133	5,393	398	0	1,048	7	964	0	941	884	878	273
U. Dayton	134	5,356	536	14	0	0	30	0	0	0	4,776	0
U. Texas, Arlington	135	5,018	69	23	182	19	567	35	0	0	3,646	477
Tulane U.	136	4,965	0	27	4,684	0	71	0	0	0	183	0
Saint Louis U.	137	4,885	0	134	4,631	0	0	0	0	0	72	48
U. Texas, Dallas	138	4,762	611	123	176	1	140	0	0	0	3,668	43
U. Texas Medical Branch	139	4,639	0	0	4,639	0	0	0	0	0	0	0
Georgia Southern U.	140	4,511	0	15	128	1	66	0	0	3,945	145	211
Ohio U.	141	4,497	362	56	377	0	64	0	0	0	3,632	6
Missouri U. of Science and Technology	142	4,481	20	25	0	0	384	0	0	0	4,052	0
Worcester Polytechnic Institute	143	4,431	513	0	147	26	22	0	0	0	3,471	252
Albany Medical C.	144	4,413	0	0	4,413	0	0	0	0	0	0	0
U. Maine	145	4,334	0	209	1,058	0	32	0	11	181	2,718	125
U. Rhode Island	146	4,268	0	1,439	1,005	0	293	79	167	397	768	120
George Washington U.	147	4,123	45	0	2,138	0	0	0	298	0	1,153	489
U. Puerto Rico, Medical Sciences Campus	148	4,091	0	0	4,091	0	0	0	0	0	0	0
East Carolina U.	149	4,076	0	73	3,877	0	0	80	0	0	40	6
New York Medical C.	150	3,927	0	0	3,927	0	0	0	0	0	0	0
Brown U.	151	3,893	61	0	1,903	0	173	0	0	48	1,606	102
Drexel U.	152	3,888	119	0	2,334	0	12	8	0	21	1,264	130

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Mississippi State U.	153	3,882	0	456	1,958	0	288	0	119	0	1,048	13
U. Akron	154	3,781	0	0	156	4	1,389	0	3	0	2,229	0
Howard U.	155	3,685	16	0	1,639	0	0	331	300	0	1,165	234
U. Wyoming	156	3,619	0	0	671	0	18	0	0	0	2,930	0
SUNY, Binghamton U.	157	3,508	162	0	149	0	463	160	509	0	2,063	2
U. Wisconsin-Milwaukee	157	3,508	0	159	152	11	49	286	2,189	0	659	3
Indiana U.-Purdue U., Indianapolis	159	3,479	23	107	1,517	0	52	48	792	0	921	19
U. Massachusetts, Lowell	160	3,460	138	23	271	0	602	0	33	0	2,376	17
U. Toledo	161	3,453	0	16	1,906	0	64	0	0	0	1,134	333
Southern Methodist U.	162	3,343	558	1,645	0	2	0	0	0	0	708	430
U. Alaska, Fairbanks	163	3,333	62	1,511	940	0	17	0	0	7	796	0
Brigham Young U., Provo	164	3,332	28	141	416	0	692	0	0	0	2,055	0
U. Tennessee, Health Science Center	165	3,245	0	0	3,245	0	0	0	0	0	0	0
U. Vermont	166	3,210	0	0	3,002	13	0	0	0	0	195	0
Loyola U., Chicago	167	3,206	0	0	3,206	0	0	0	0	0	0	0
Milwaukee School of Engineering	168	3,141	0	0	39	0	0	0	0	0	3,102	0
Augusta U.	169	3,081	0	0	3,081	0	0	0	0	0	0	0
U. North Carolina, Charlotte	170	2,877	338	72	264	0	338	37	1	0	1,739	88
U. Michigan, Dearborn	171	2,871	0	0	0	0	0	0	0	0	2,871	0
U. Tennessee, Knoxville, Institute of Agriculture	172	2,816	0	0	2,601	0	0	0	0	28	187	0
U. Alabama, Tuscaloosa	173	2,799	12	109	388	0	0	0	342	0	1,297	651
Albert Einstein C. of Medicine	174	2,778	0	0	2,778	0	0	0	0	0	0	0
U. Mississippi	175	2,602	0	0	2,545	0	0	0	0	0	57	0
U. Nevada, Reno	176	2,556	13	56	1,498	0	244	130	0	0	615	0
New Jersey Institute of Technology	177	2,511	0	0	1,678	6	149	0	0	0	546	132
Cleveland State U.	178	2,451	0	0	1,382	0	0	0	88	0	981	0
CUNY, John Jay C. of Criminal Justice	179	2,421	0	0	0	0	0	1,160	0	0	0	1,261
SUNY, Upstate Medical U.	180	2,380	0	0	2,380	0	0	0	0	0	0	0
Florida State U.	181	2,331	82	101	720	0	244	0	105	31	1,007	41

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Illinois Institute of Technology	182	2,328	48	0	1,124	0	264	0	0	0	869	23
Rochester Institute of Technology	183	2,271	160	0	1	50	451	0	0	0	1,586	23
Louisiana State U., Health Sciences Center, New Orleans	184	2,222	0	0	2,222	0	0	0	0	0	0	0
North Dakota State U.	185	2,166	6	0	1,498	0	214	0	53	44	351	0
California State U., Maritime Academy	186	2,116	0	0	0	0	0	0	0	0	2,116	0
U. New Mexico	187	2,115	8	1	1,630	0	0	21	7	0	448	0
Nova Southeastern U.	188	2,035	0	1,749	281	0	0	0	0	5	0	0
Florida Atlantic U.	189	1,981	172	0	1,541	0	1	14	0	0	243	10
Montana State U., Bozeman	190	1,974	68	0	899	0	371	0	20	0	595	21
South Dakota State U.	191	1,955	0	0	1,727	98	24	0	0	0	106	0
U. North Texas, Health Science Center	192	1,872	0	0	1,872	0	0	0	0	0	0	0
U. Hawaii, Manoa	193	1,846	41	243	559	0	3	0	467	246	247	40
Loma Linda U.	194	1,828	0	0	1,827	0	0	1	0	0	0	0
U. Idaho	195	1,822	115	3	782	0	0	7	0	0	521	394
U. North Texas, Denton	196	1,807	110	145	989	0	319	0	30	0	168	46
Western Michigan U. and Homer Stryker M.D. School of Medicine	197	1,685	0	15	593	0	0	0	0	0	1,065	12
U. Massachusetts, Boston	198	1,675	35	10	50	0	0	95	283	0	7	1,195
Florida International U.	199	1,652	0	31	560	0	530	0	19	0	490	22
Stevens Institute of Technology	200	1,568	114	16	0	236	73	0	0	61	934	134
Creighton U.	201	1,554	41	28	1,118	12	81	17	98	0	0	159
Texas Christian U.	202	1,531	0	0	515	0	55	7	7	0	68	879
Cold Spring Harbor Laboratory	203	1,527	0	0	1,527	0	0	0	0	0	0	0
Rosalind Franklin U. of Medicine and Science	204	1,500	0	0	1,500	0	0	0	0	0	0	0
California Polytechnic State U., San Luis Obispo	205	1,485	79	0	681	0	164	0	17	0	530	14
U. Nevada, Las Vegas	206	1,465	0	0	1	0	244	0	43	0	842	335
U. Denver	207	1,453	0	0	0	0	0	0	40	0	1,413	0
Old Dominion U.	208	1,430	14	9	403	106	22	0	188	0	688	0
U. Memphis	209	1,317	0	0	462	0	0	0	51	0	764	40

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All 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
Alaska Pacific U.	210	1,312	0	1,312	0	0	0	0	0	0	0	0
Wright State U.	211	1,303	1	0	908	0	0	7	0	0	387	0
Woods Hole Oceanographic Institution	212	1,234	0	291	0	0	0	0	0	0	943	0
Eastern Virginia Medical School	213	1,226	0	0	1,226	0	0	0	0	0	0	0
Rowan U.	214	1,200	116	0	519	0	191	0	0	0	371	3
Clarkson U.	215	1,196	8	0	2	3	184	0	0	0	999	0
Embry-Riddle Aeronautical U.	216	1,187	0	176	0	0	18	0	55	0	899	39
Portland State U.	217	1,156	85	0	109	5	0	0	0	0	950	7
Teachers C., Columbia U.	217	1,156	99	0	199	0	0	12	846	0	0	0
Miami U.	219	1,155	4	36	659	51	0	1	53	0	225	126
Baylor U.	220	1,152	264	0	159	0	233	0	0	0	489	7
U. Massachusetts, Dartmouth	221	1,140	0	1,071	56	0	4	0	2	0	7	0
Oregon Institute of Technology	222	1,126	11 i	73 i	480 i	22 i	0 i	35 i	0 i	0 i	134 i	371 i
Southern Illinois U., Edwardsville	223	1,121	0	21	962	0	0	0	30	0	99	9
William & Mary	224	1,119	57	804	148	0	10	0	93	0	0	7
U. of the Sciences Philadelphia	225	1,117	0	0	1,116	0	1	0	0	0	0	0
U. Maryland, Baltimore County	226	1,084	460	125	110	0	35	23	0	0	312	19
U. Alabama, Huntsville	227	1,069	46	0	166	0	64	0	0	0	786	7
U. South Alabama	228	1,060	0	68	783	0	0	0	13	0	192	4
Claremont Graduate U.	229	1,056	34	0	0	0	0	0	181	0	0	841
Pittsburg State U.	230	1,025	0	0	0	0	0	0	100	0	925	0
U. Minnesota, Duluth	230	1,025	0	0	672	0	292	0	0	0	46	15
New Mexico State U.	232	1,022	82	0	388	0	194	0	0	0	358	0
U. Puerto Rico, Mayaguez	233	993	0	339	13	0	82	0	0	0	554	5
U. North Carolina, Wilmington	234	964	0	7	274	0	8	0	7	0	600	68
West Texas A&M U.	235	963	34	0	475	0	0	0	0	0	454	0
U. Maryland Center for Environmental Science	236	940	0	611	274	0	55	0	0	0	0	0
Oakland U.	237	939	37	0	16	0	148	0	0	0	682	56
New Mexico Institute of Mining and Technology	238	923	93	90	0	0	42	0	0	0	698	0
Albany C. of Pharmacy and Health Sciences	239	901	0	0	901	0	0	0	0	0	0	0

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All 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
Louisiana Tech U.	240	890	69	0	14	0	124	0	0	0	674	9
U. Texas, El Paso	241	872	10	271	44	0	0	0	3	0	535	9
Kennesaw State U.	242	840	55	0	44	221	1	0	406	0	113	0
Western U. of Health Sciences	243	839	0	0	839	0	0	0	0	0	0	0
U.S. Air Force Academy	244	833	0	0	0	0	0	0	0	0	0	833
Idaho State U.	245	818	0	10	148	0	344	0	0	0	316	0
Marquette U.	246	811	0	0	175	1	0	0	0	0	625	10
San Diego State U.	247	808	7	0	457	0	4	46	0	0	294	0
San Jose State U.	248	746	8	77	2	0	41	47	0	0	530	41
St. Cloud State U.	249	743	1	4	151	0	1	0	91	0	96	399
Texas State U.	250	725	9	247	156	0	39	0	28	0	178	68
U. Texas Health Science Center, Tyler	250	725	0	0	725	0	0	0	0	0	0	0
SUNY, C. of Optometry	252	711	0	0	711	0	0	0	0	0	0	0
SUNY, U. Albany	253	708	23	444	200	0	0	0	0	0	41	0
South Dakota School of Mines and Technology	254	680	0	0	0	11	0	0	0	0	669	0
California State U., Long Beach	255	678	0	0	14	0	0	0	117	0	531	16
U. West Florida	256	670	11	39	66	0	9	0	520	0	0	25
East Tennessee State U.	257	641	0	0	621	0	0	0	18	0	0	2
Purdue U., Northwest	258	640	0	0	6	0	0	0	0	0	622	12
Alfred U.	259	632	0	0	0	0	0	0	0	0	632	0
Georgia State U.	260	603	8	7	485	0	13	0	2	0	0	88
Kettering U.	261	602	0	0	0	0	9	0	0	0	577	16
Appalachian State U.	262	580	0	0	576	0	0	0	0	0	4	0
CUNY, New York City C. of Technology	263	554	0	0	0	554	0	0	0	0	0	0
Northern Arizona U.	264	552	0	0	230	0	26	0	0	3	292	1
Rutgers, State U. New Jersey, Newark	265	548	0	0	0	0	193	0	0	0	0	355
Florida A&M U.	266	543	0	0	456	0	0	0	0	0	87	0
Louisiana State U., Health Sciences Center, Shreveport	267	524	0	0	524	0	0	0	0	0	0	0
Naval Postgraduate School	268	522	168	0	0	0	113	0	0	0	241	0

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All 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	268	522	0	0	0	0	90	0	110	0	322	0
Kent State U.	270	518	16	25	18	3	108	106	59	7	98	78
U. Wisconsin-La Crosse	270	518	0	0	14	0	0	0	494	0	0	10
Bradley U.	272	515	0	0	17	0	0	0	0	0	498	0
Pennsylvania State U., Behrend	272	515	50	6	4	6	10	0	0	0	439	0
Montana Technological U.	274	511	0	172	116	0	0	0	0	0	223	0
Lehigh U.	275	503	77	0	1	0	168	0	0	0	257	0
CUNY, City C.	276	490	60	0	14	0	275	0	0	0	141	0
U. New Haven	276	490	0	0	2	0	177	0	142	0	169	0
Catholic U. of America	278	485	0	0	34	0	39	8	124	0	89	191
Texas A&M U.-Corpus Christi	279	479	17	127	8	0	0	0	0	0	327	0
Brandeis U.	280	475	55	0	0	0	53	0	367	0	0	0
U. California, Merced	281	474	0	0	43	0	60	0	0	0	371	0
U. Colorado Colorado Springs	282	471	41	0	68	0	137	0	0	141	27	57
SUNY, C. of Environmental Science and Forestry	283	469	0	0	422	0	0	0	0	0	47	0
SUNY, Downstate Medical Center	283	469	0	0	469	0	0	0	0	0	0	0
Van Andel Research Institute	285	466	0	0	466	0	0	0	0	0	0	0
U. Alaska, Anchorage	286	465	0	152	221	0	0	0	17	0	75	0
Illinois State U.	287	456	0	253	43	19	44	0	0	0	0	97
Florida Institute of Technology	288	453	47	0	0	0	0	0	0	0	406	0
Texas A&M U.-Kingsville	289	451	0	0	325	0	0	0	0	0	126	0
Chapman U.	290	448	122	0	267	0	0	0	0	0	0	59
California State Polytechnic U., Pomona	291	447	0	24	332	6	0	0	0	0	20	65
Boston C.	292	440	35	75	30	0	99	0	142	0	0	59
Texas Tech U., Health Sciences Center	293	433	0	0	432	0	0	0	0	0	0	1
Marshall U.	294	413	0	0	320	0	23	0	0	0	0	70
Pacific U.	295	397	0	0	397	0	0	0	0	0	0	0
Ball State U.	296	391	341	0	32	2	0	0	0	0	0	16
California State U., Sacramento	297	386	39	0	24	0	0	0	199	17	107	0
Marshall B. Ketchum U.	298	369	0	0	369	0	0	0	0	0	0	0
Villanova U.	298	369	3	0	0	0	7	0	0	0	346	13

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All 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. Missouri, Kansas City	300	364	15	0	190	0	89	0	0	0	70	0
Texas Tech U., Health Sciences Center, El Paso	301	363	0	0	356	0	0	0	0	0	0	7
U. Montana, Missoula	302	350	0	26	283	0	1	0	0	0	0	40
Northern Illinois U.	303	337	0	0	2	0	28	0	0	0	307	0
CUNY, Graduate School of Public Health and Health Policy	304	328	0	0	328	0	0	0	0	0	0	0
U. Massachusetts, central office	305	323	0	0	0	0	0	0	58	0	0	265
Humboldt State U.	306	313	25	22	111	0	0	0	8	0	147	0
Midwestern U.	307	308	0	0	308	0	0	0	0	0	0	0
Toyota Technological Institute, Chicago	308	305	305	0	0	0	0	0	0	0	0	0
Manhattan C.	309	295	0	0	0	0	0	0	0	0	295	0
U. Oregon	309	295	63	0	0	0	54	0	110	0	36	32
Occidental C.	311	291	0	291	0	0	0	0	0	0	0	0
CUNY, Advanced Science Research Center	312	288	0	0	0	0	288	0	0	0	0	0
U. of St. Thomas (MN)	313	287	14	0	0	0	27	0	0	0	246	0
Lawrence Technological U.	314	279	0	0	0	0	0	0	0	0	202	77
Morgan State U.	315	278	0	0	0	0	0	0	0	0	202	76
California State U., Stanislaus	316	277	0	0	275	0	0	0	0	0	0	2
Duquesne U.	317	266	0	0	182	0	16	6	0	0	9	53
North Carolina Central U.	318	262	0	0	30	0	0	0	0	0	89	143
Desert Research Institute	319	258	0	258	0	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	320	255	2	0	0	30	223	0	0	0	0	0
Boise State U.	321	254	12	2	51	0	35	0	0	0	154	0
Santa Clara U.	322	250	8	0	0	0	5	0	0	0	237	0
U. Wisconsin-Platteville	323	248	2	14	89	4	21	7	15	0	26	70
U. Texas, Tyler	324	247	0	0	86	1	0	0	0	0	160	0
American U.	325	241	2	0	0	0	0	0	221	0	0	18
Langston U.	325	241	0	0	241	0	0	0	0	0	0	0
Western Washington U.	327	238	0	24	3	0	109	17	0	0	85	0
Middle Tennessee State U.	328	237	0	0	202	9	2	0	8	0	13	3

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All 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
Fordham U.	361	149	90	0	0	0	0	0	0	0	0	59
Wellesley C.	362	143	0	0	140	0	0	0	0	0	0	3
Missouri State U.	363	140	0	0	140	0	0	0	0	0	0	0
Alabama A&M U.	364	139	3 i	0 i	79 i	1 i	7 i	2 i	7 i	0 i	24 i	16 i
Edward Via C. of Osteopathic Medicine	364	139	0	0	139	0	0	0	0	0	0	0
Keck Graduate Institute	364	139 i	4 i	0 i	103 i	1 i	0 i	0 i	0 i	0 i	16 i	15 i
Barnard C.	367	136	0	0	136	0	0	0	0	0	0	0
Purdue U., Fort Wayne	368	135	0	0	119	0	0	0	16	0	0	0
U. Northern Iowa	368	135	0	0	0	0	135	0	0	0	0	0
Lamar U.	370	131	0	0	3	0	0	0	0	0	100	28
U. Michigan, Flint	370	131	0	0	4	0	0	0	0	0	127	0
Oklahoma State U., Center for Health Sciences	372	129	0	0	111	0	0	18	0	0	0	0
Texas Woman's U.	373	126	0	0	126	0	0	0	0	0	0	0
Eastern Washington U.	374	123	0	35	52	0	0	0	36	0	0	0
U. Hawaii, Hilo	375	121	0	0	121	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Camden	376	120	0	0	0	0	0	0	0	0	0	120
Montclair State U.	377	117	0	0	117	0	0	0	0	0	0	0
U. Puerto Rico, Rio Piedras	377	117	0	0	79	0	36	0	0	0	0	2
Western Carolina U.	379	113	0	0	29	0	52	0	0	0	32	0
Christopher Newport U.	380	111	0	0	105	0	6	0	0	0	0	0
U. Nebraska, Omaha	381	109	0	0	15	15	0	9	0	0	70	0
Babson C.	382	101	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	101 i
Calvin U.	383	99	0	0	3	0	24	0	0	0	72	0
Tarleton State U.	384	96	0	0	96	0	0	0	0	0	0	0
Western Illinois U.	385	94	0	0	91	0	0	0	0	0	3	0
Franklin W. Olin C. of Engineering	386	92	0	0	0	0	0	0	0	0	92	0
Eastern Michigan U.	387	91	0	0	27	0	28	0	0	0	36	0
Northern Michigan U.	388	86	0	0	6	0	0	80	0	0	0	0
Biola U.	389	77 i	2 i	0 i	47 i	1 i	4 i	1 i	5 i	0 i	8 i	9 i
U. North Florida	390	76	0	0	0	0	23	0	5	0	48	0
Towson U.	391	75	23	0	28	22	0	0	0	0	0	2

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All 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											
Air Force Institute of Technology	392	73	0	0	0	0	0	0	0	0	73	0											
Kentucky State U.	393	72	0	0	72	0	0	0	0	0	0	0											
U. Wisconsin-Stevens Point	394	71	i	1	i	2	i	41	i	1	i	3	i	1	i	4	i	0	i	12	i	6	i
Virginia State U.	394	71	0	0	3	0	0	0	0	0	0	68											
Indiana State U.	396	70	0	0	46	21	0	0	2	0	1	0											
Tennessee Technological U.	397	69	0	0	0	0	0	0	0	0	69	0											
U. Central Oklahoma	397	69	0	0	12	32	14	0	0	0	0	11											
U. Wisconsin-Eau Claire	399	68	0	3	0	44	21	0	0	0	0	0											
Murray State U.	400	67	0	0	67	0	0	0	0	0	0	0											
Tennessee State U.	401	66	0	0	56	0	0	0	0	0	10	0											
San Francisco State U.	402	65	0	0	0	0	0	63	0	0	2	0											
Heidelberg U.	403	62	0	62	0	0	0	0	0	0	0	0											
California State U., Bakersfield	404	60	30	0	0	0	8	0	0	0	22	0											
Salus U.	404	60	0	0	60	0	0	0	0	0	0	0											
Gettysburg C.	406	59	0	0	0	0	0	59	0	0	0	0											
Hofstra U.	407	58	58	0	0	0	0	0	0	0	0	0											
Roseman U. of Health Sciences	408	56	i	0	i	0	i	56	i	0	i	0	i										
Texas A&M International U.	409	54	0	0	5	0	2	0	0	0	0	47											
Sam Houston State U.	410	53	0	0	35	7	11	0	0	0	0	0											
Sul Ross State U.	411	52	0	0	52	0	0	0	0	0	0	0											
Liberty U.	412	51	0	0	51	0	0	0	0	0	0	0											
U. Houston-Clear Lake	412	51	0	0	39	0	0	0	12	0	0	0											
Meharry Medical C.	414	50	0	0	50	0	0	0	0	0	0	0											
California State U., Northridge	415	49	0	0	0	0	0	0	0	0	49	0											
U. New England	416	48	0	0	48	0	0	0	0	0	0	0											
U. South Dakota	416	48	0	0	0	0	0	0	0	0	0	48											
Fisk U.	418	47	0	0	47	0	0	0	0	0	0	0											
U. of the Virgin Islands	418	47	0	6	0	0	15	0	0	0	0	26											
U. Nebraska, Kearney	420	45	0	0	0	0	0	0	18	27	0	0											
New England C. of Optometry	421	44	0	0	44	0	0	0	0	0	0	0											
Central Michigan U.	422	43	0	0	43	0	0	0	0	0	0	0											
Clark U.	422	43	0	34	9	0	0	0	0	0	0	0											
U. Missouri, Saint Louis	422	43	0	0	0	0	19	0	0	0	0	24											
California State U., Monterey Bay	425	42	0	17	25	0	0	0	0	0	0	0											

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All 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
CUNY, York C.	457	22	0	0	11	10	0	0	0	0	0	1
California State U., Channel Islands	459	21	0	0	3	18	0	0	0	0	0	0
Central Washington U.	459	21	0	0	0	0	0	0	21	0	0	0
Des Moines U.	459	21	0	0	21	0	0	0	0	0	0	0
Monmouth U.	459	21	0	0	21	0	0	0	0	0	0	0
Smith C.	459	21	0	0	0	0	0	0	0	0	21	0
Stephen F. Austin State U.	459	21	0	0	21	0	0	0	0	0	0	0
Pace U.	465	18	18	0	0	0	0	0	0	0	0	0
Jacksonville State U.	466	17	0	0	0	0	0	0	0	0	0	17
CUNY, Queens C.	467	16	0	0	15	0	1	0	0	0	0	0
U. Northern Colorado	468	14	0	0	7	0	7	0	0	0	0	0
U. North Carolina, Asheville	469	13	0	0	0	0	0	0	0	0	10	3
Southeastern Louisiana U.	470	12	0	0	0	0	4	0	8	0	0	0
U. Detroit Mercy	470	12	0	0	3	0	0	0	0	0	9	0
New Jersey City U.	472	10	0	0	0	10	0	0	0	0	0	0
Indiana U. Pennsylvania	473	9	0	0	2	0	5	0	2	0	0	0
Emerson C.	474	8	0	0	4	0	0	0	0	0	0	4
California State U., Dominguez Hills	475	7	0	0	0	0	0	0	7	0	0	0
Drake U.	475	7	0	0	7	0	0	0	0	0	0	0
Fort Lewis C.	475	7	0	7	0	0	0	0	0	0	0	0
Salisbury U.	475	7	7	0	0	0	0	0	0	0	0	0
Winthrop U.	475	7	0	0	0	0	0	0	0	0	0	7
Middlebury C.	480	6	0	0	6	0	0	0	0	0	0	0
New York Institute of Technology	480	6	0	0	0	0	0	0	0	0	6	0
Southern Connecticut State U.	480	6	0	0	6	0	0	0	0	0	0	0
C. Charleston	483	4	1	0	3	0	0	0	0	0	0	0
Davidson C.	483	4	0	0	0	4	0	0	0	0	0	0
Saint Joseph's U.	483	4	0	0	3	0	0	0	0	0	0	1
Touro U.	483	4	0	0	4	0	0	0	0	0	0	0
Trinity C., Hartford	483	4	0	0	0	0	0	0	0	0	4	0
U. Illinois, Springfield	483	4	0	0	0	0	0	0	0	0	0	4
Oberlin C.	489	3	0	0	0	0	0	0	3	0	0	0

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2019

(Dollars in thousands)

Institution	Rank	All 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. Guam	489	3	0	0	3	0	0	0	0	0	0	0
Eastern Kentucky U.	491	2	0	0	0	0	0	0	0	0	0	2
Florida Polytechnic U.	491	2	0	0	0	0	0	0	0	0	2	0
Seattle U.	491	2	0	0	0	0	0	0	0	0	0	2
U. Alaska, Southeast	491	2	0	2	0	0	0	0	0	0	0	0
U. Louisiana, Monroe	491	2	0	0	0	0	0	0	0	0	0	2
U. Portland	491	2	0	0	0	0	2	0	0	0	0	0
Wheaton C., Wheaton	491	2	0	0	0	0	2	0	0	0	0	0
A. T. Still U.	498	1	0	0	1	0	0	0	0	0	0	0
Bowdoin C.	498	1	0	0	0	0	1	0	0	0	0	0
Coastal Carolina U.	498	1	0	0	1	0	0	0	0	0	0	0
Gallaudet U.	498	1	1	0	0	0	0	0	0	0	0	0
Rhode Island C.	498	1	0	0	0	0	1	0	0	0	0	0
Saginaw Valley State U.	498	1	0	1	0	0	0	0	0	0	0	0
U. North Georgia	498	1	0	0	0	1	0	0	0	0	0	0
William Paterson U.	498	1	0	0	0	0	1	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$4,777 thousand in business-financed R&D expenditures in FY 2019.^b 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.