

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
	All institutions	32,823,937	36,405,220	40,100,324	43,257,915	45,799,461	47,751,211	49,553,959	51,908,726
1	Johns Hopkins U., The ^a	999,246	1,140,235	1,244,132	1,375,014	1,443,792	1,499,977	1,554,103	1,680,927
2	U. CA, San Francisco	524,975	596,965	671,443	728,321	754,444	796,149	842,840	885,182
3	U. WI Madison	604,143	662,101	717,044	763,875	798,099	831,895	840,672	881,777
4	U. MI all campuses	600,523	673,724	780,054	769,126	808,887	800,488	808,731	876,390
5	U. CA, Los Angeles ^b	693,801	787,598	849,357	772,569	785,625	811,493	823,083	871,478
6	U. CA, San Diego	556,533	585,008	646,508	708,690	721,035	754,766	798,896	842,027
7	Duke U.	375,133	441,533	520,191	520,871	630,752	657,080	781,843	766,906
8	U. WA	589,626	627,273	684,814	713,976	707,519	778,148	756,787	765,135
9	U. PA	469,852	522,269	564,635	596,756	654,982	676,052	648,247	708,244
10	OH State U. all campuses	390,652	432,387	496,438	518,088	608,923	652,329	720,206	702,592
11	PA State U. all campuses	458,066	492,739	533,427	600,139	625,764	644,182	652,144	701,130
12	Stanford U.	482,906	538,474	603,227	671,046	714,897	679,196	687,511	688,225
13	U. MN all campuses	462,011	494,265	508,557	526,270	548,873	594,877	624,149	682,662
14	MA Institute of Technology	435,495	446,786	485,764	543,448	580,742	600,748	614,352	659,626
15	Cornell U. all campuses	443,828	496,123	554,760	575,554	606,804	648,802	641,936	653,996
16	U. CA, Davis	432,396	456,653	482,145	511,757	546,978	573,002	600,508	642,519
17	U. Pittsburgh all campuses	348,792	400,200	409,684	461,693	522,448	530,162	558,566	595,627
18	U. CA, Berkeley	446,273	474,746	507,186	525,598	554,551	546,035	552,365	591,770
19	U. FL	347,892	386,316	429,734	447,146	530,734	565,491	592,835	584,170
20	TX A&M U.	407,041	436,681	456,235	456,809	479,735	492,955	543,888	582,365
21	Washington U. St. Louis	406,642	416,960	474,328	489,565	531,846	547,674	572,775	563,967
22	U. TX M. D. Anderson Cancer Ctr.	212,746	262,145	315,169	353,034	383,780	457,696	496,539	558,503
23	Columbia U. in the City of New York	354,497	405,403	437,669	468,484	535,424	529,945	545,995	548,704
24	U. AZ	367,128	390,827	454,941	478,680	530,233	535,847	531,753	545,869
25	U. CO all campuses	365,472	399,818	436,761	482,992	517,067	512,794	527,587	535,556
26	U. NC Chapel Hill	303,576	370,806	390,542	416,727	441,033	443,790	477,231	525,843
27	GA Institute of Technology all campuses	306,533	340,347	364,190	410,799	425,386	440,898	472,591	522,136
28	U. Southern CA	340,597	372,397	414,099	426,665	445,036	450,173	508,138	519,543
29	U. IL Urbana-Champaign	390,863	427,174	493,581	506,041	499,711	476,198	473,890	501,279
30	U. TX Austin	295,104	320,966	343,854	343,886	410,981	431,398	446,765	493,294
31	Yale U.	321,514	354,243	387,644	422,828	431,618	460,075	448,671	487,285
32	Northwestern U.	257,933	282,154	319,722	358,947	387,242	419,985	443,345	483,881
33	Harvard U.	372,107	401,367	408,707	454,495	447,196	453,156	451,276	453,028
34	Baylor C. of Medicine	381,461	411,924	461,763	476,075	458,694	462,375	438,280	449,301
35	Emory U.	236,997	271,238	323,224	311,685	333,665	345,989	398,383	441,222
36	Purdue U. all campuses	254,917	285,778	309,476	365,779	364,986	372,958	415,172	429,988
37	Vanderbilt U.	186,504	208,305	276,074	318,335	350,433	376,893	399,149	422,622
38	Case Western Reserve U.	198,253	219,042	250,674	231,800	323,618	369,264	372,374	416,077

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
39	IN U. all campuses	259,899	299,080	337,669	384,168	307,137	355,004	386,654	411,939
40	U. AL Birmingham, The	231,702	255,053	284,497	310,950	318,536	331,436	351,457	404,615
41	U. MD College Park	267,383	324,980	321,899	325,648	338,648	354,244	359,760	395,037
42	LA State U. all campuses	268,911	287,363	314,446	341,634	361,688	355,465	378,906	391,234
43	U. TX Southwestern Medical Ctr. Dallas	222,376	263,958	276,692	314,403	320,800	333,237	341,090	390,349
44	U. MD Baltimore	239,007	266,822	297,271	317,293	304,396	405,260	358,851	379,407
45	U. Rochester	234,261	261,601	285,768	312,303	345,337	366,658	373,247	375,218
46	VA Polytechnic Institute and State U.	216,323	232,560	247,807	268,752	289,994	321,722	366,960	373,281
47	NC State U.	299,259	290,018	286,025	292,720	302,596	330,936	331,662	366,137
48	Scripps Research Institute, The	NA	NA	NA	307,910	330,170	367,375	360,511	366,047
49	U. Chicago	194,125	225,264	247,322	272,390	293,970	305,301	322,488	357,278
50	MI State U.	265,946	289,787	321,410	325,438	333,735	358,097	360,852	356,767
51	U. GA	272,298	284,660	299,748	313,160	316,806	323,843	332,612	350,299
52	U. NE all campuses	223,964	247,948	276,424	299,550	333,126	333,243	336,468	349,220
53	U. Cincinnati all campuses	192,895	216,652	254,101	276,326	286,036	294,150	375,852	344,046
54	SUNY Buffalo all campuses	186,829	226,959	240,180	258,952	267,271	297,909	314,837	338,300
55	U. KY all campuses	211,721	236,275	272,062	297,610	306,653	323,958	331,606	336,669
56	U. IL Chicago	233,098	259,852	291,507	312,768	318,279	332,176	342,421	335,138
57	U. CA, Irvine	179,866	209,469	234,656	257,024	276,763	300,229	309,554	324,552
58	Rutgers, The State U. NJ all campuses	236,793	258,829	278,763	296,534	309,531	308,204	311,612	323,404
59	NY U.	190,722	222,978	241,593	259,333	276,198	284,164	297,867	310,699
60	OR Health & Science U.	136,785	158,729	197,178	254,447	266,687	272,174	287,430	301,396
61	Mt. Sinai School of Medicine	176,946	185,335	203,853	212,786	225,293	273,216	269,451	296,380
62	CO State U.	161,144	178,845	187,054	214,886	236,211	253,992	288,497	295,235
63	U. IA	255,348	288,808	292,035	312,914	334,144	346,357	363,243	293,564
64	U. South FL	171,550	197,894	213,249	240,021	259,218	285,941	272,661	278,419
65	WA State U.	107,937	146,862	175,181	171,735	182,677	196,391	210,010	276,806
66	CA Institute of Technology	215,085	220,004	240,664	261,098	265,364	270,269	285,488	272,881
67	U. HI Manoa	156,976	161,823	179,285	236,368	230,651	249,635	266,447	271,835
68	SUNY Albany	70,119	67,493	120,655	203,977	259,708	274,354	309,221	270,414
69	AZ State U.	118,763	123,016	145,591	152,164	166,923	201,955	224,352	259,503
70	U. VA all campuses	149,547	182,340	206,199	228,532	235,058	238,754	229,653	257,651
71	Boston U.	172,031	192,612	224,841	240,867	246,520	255,615	249,279	255,022
72	U. UT	197,597	216,707	223,739	230,146	244,691	248,168	247,794	253,891
73	SUNY Stony Brook all campuses	168,487	184,045	200,330	213,547	212,289	234,635	268,282	252,745
74	U. TN all campuses	161,898	188,261	217,389	228,760	255,699	249,072	243,184	250,188
75	Wayne State U.	175,984	199,007	214,642	225,475	226,331	220,731	235,186	249,210
76	Rockefeller U.	145,571	166,603	192,143	192,222	198,719	215,417	233,917	247,505
77	U. MO-Columbia	174,782	177,011	205,212	217,550	220,718	215,240	228,654	244,639

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Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
78	U. Miami	153,772	171,319	177,709	194,446	209,572	213,516	210,534	241,775
79	U. of Medicine and Dentistry NJ	162,417	178,156	190,763	209,134	239,778	245,771	236,834	230,347
80	U. CT all campuses	164,366	172,003	190,341	211,236	219,982	215,184	224,679	225,904
81	IA State U.	179,196	188,664	199,566	211,996	209,545	221,998	217,158	224,368
82	U. KS all campuses	156,467	172,131	173,024	181,192	190,105	195,947	202,129	215,364
83	MS State U.	146,939	158,652	165,922	191,352	179,825	189,917	206,207	210,951
84	Carnegie Mellon U.	144,882	188,191	186,351	205,149	200,297	212,506	197,143	210,619
85	U. CA, Santa Barbara	116,372	131,795	149,130	151,325	165,014	174,429	191,204	203,719
86	U. TX Health Science Ctr. San Antonio	115,154	129,616	133,304	137,039	142,375	150,040	160,282	201,323
87	Wake Forest U.	98,343	111,634	130,405	133,753	185,152	183,129	185,609	199,915
88	U. NM main campus	156,619	150,598	158,239	170,085	178,703	181,223	177,430	197,630
89	Yeshiva U.	148,230	157,124	177,236	183,253	193,104	189,416	192,199	197,311
90	U. TX Health Science Ctr. Houston	125,439	138,380	149,294	147,328	152,631	175,154	191,724	197,252
91	Clemson U.	123,885	134,840	152,986	158,585	175,127	179,840	211,760	195,195
92	Princeton U.	149,411	164,408	179,951	188,373	202,380	188,165	188,732	194,757
93	U. OK all campuses	148,695	169,373	174,466	158,578	173,663	178,719	176,825	192,070
94	Medical U. SC	116,687	132,030	150,551	163,179	178,086	176,055	184,624	189,369
95	OR State U.	153,925	161,735	167,631	170,286	180,309	189,606	189,368	188,056
96	Dartmouth C.	109,096	126,839	155,795	173,266	179,094	200,277	192,846	186,938
97	FL State U.	113,817	134,351	152,277	168,132	172,858	185,633	189,565	182,314
98	U. TX Medical Branch	102,722	129,534	153,122	166,798	174,254	179,915	183,492	180,026
99	U. MA Worcester	111,221	132,729	148,823	169,090	176,349	156,452	157,469	178,614
100	U. SC all campuses	109,973	123,108	121,410	121,671	122,212	153,737	158,857	172,378
101	Medical C. WI	83,857	96,700	108,608	139,235	143,540	147,140	158,171	165,529
102	Brown U.	91,636	109,482	125,090	130,741	138,262	157,926	152,619	157,670
103	George Washington U.	73,805	86,288	92,454	103,473	107,715	113,982	126,110	157,145
104	Tulane U.	99,761	102,998	117,709	123,677	138,959	114,397	137,107	153,242
105	U. MA Amherst	97,976	109,332	113,512	120,788	127,487	135,272	141,351	152,884
106	Woods Hole Oceanographic Institution	91,029	99,964	104,223	114,087	117,517	121,888	137,410	150,720
107	U. Louisville	72,857	80,974	88,522	110,653	128,347	135,873	151,226	148,936
108	VA Commonwealth U.	99,180	109,619	126,451	132,839	146,105	149,256	134,453	148,655
109	Auburn U. all campuses	106,347	108,775	117,000	125,705	132,203	126,522	140,629	146,984
110	UT State U.	121,359	121,621	138,862	153,616	131,624	138,670	140,243	146,128
111	Georgetown U.	99,228	105,668	117,713	126,320	123,938	118,558	137,775	142,623
112	WV U.	71,311	84,985	104,748	108,002	115,398	122,134	133,590	139,770
113	Tufts U.	105,806	109,291	112,609	126,432	131,028	128,965	130,826	139,528
114	NM State U. main campus	86,963	103,078	108,613	93,329	125,427	164,994	148,120	138,427
115	KS State U.	94,030	106,804	112,733	119,306	123,398	123,746	123,900	137,543
116	U. CA, Santa Cruz	64,253	70,967	78,448	94,297	105,617	114,126	124,856	135,261

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117	U. CA, Riverside	94,455	111,936	112,468	110,627	122,221	124,820	128,057	129,605
118	U. DE	77,491	85,157	100,706	109,985	110,339	114,985	118,245	125,179
119	OK State U. all campuses	90,311	94,987	103,079	103,915	99,436	100,323	101,112	121,226
120	MT State U. Bozeman	69,593	78,211	91,503	97,696	109,465	112,428	116,999	120,155
121	U. AR for Medical Sciences	51,921	45,046	63,677	74,063	91,516	107,871	108,551	117,440
122	ND State U. all campuses	64,882	72,105	91,812	102,115	103,011	103,778	106,208	115,513
123	U. VT	75,597	88,602	104,994	114,120	115,693	121,841	113,195	115,421
124	U. NH	87,879	93,222	96,415	103,935	108,378	115,117	114,228	113,877
125	U. Central FL	79,287	66,351	89,880	103,261	102,702	107,996	111,595	108,067
126	Uniformed Services U. of the Health Sciences	23,247	28,630	30,604	89,999	78,694	67,716	71,307	106,179
127	U. AR main campus	78,303	83,063	82,277	88,918	98,138	99,271	101,109	102,784
128	U. AK Fairbanks all campuses	110,195	116,279	128,916	132,212	139,488	153,470	151,782 e	102,761
129	U. NV, Reno	59,229	66,721	80,553	83,552	95,579	98,917	95,809	102,073
130	Drexel U.	27,698	44,465	69,548	76,120	88,049	96,687	96,575	100,911
131	U. CA Office of the President ^b	NA	NA	NA	90,233	97,245	128,770	118,910	100,034
132	Thomas Jefferson U.	88,936	102,974	109,083	112,078	107,388	106,986	107,288	99,275
133	U. of Notre Dame	46,096	52,371	59,803	74,255	71,266	78,553	77,467	97,171
134	FL International U.	44,291	47,654	52,175	63,545	76,678	63,567	90,903	95,706
135	U. ME	64,070	62,149	68,923	81,216	75,066	93,153	96,135	95,042
136	Temple U.	60,182	63,850	71,327	76,055	83,062	79,736	85,394	92,486
137	U. MS all campuses	58,410 i	71,893 i	85,378	79,867	91,913	93,471	108,244	90,095
138	NJ Institute of Technology	62,747	69,138	73,664	74,998	76,920	77,583	88,699	89,792
139	Rush U.	70,219	79,394	89,196	89,254	83,693	83,194	84,370	89,513
140	U. Houston	51,567	59,707	63,455	60,962	80,731	75,662	73,542	84,490
141	Naval Postgraduate School	47,559 i	54,291 i	61,025	56,184 i	51,343	56,780	63,392	83,314
142	U. ID	67,496	76,758	85,213	93,246	91,009	86,863	83,390	81,532
143	U. Dayton	41,343	46,554	52,943	63,734	67,445	69,080	74,005	81,275
144	TX A&M U. System Health Science Ctr.	40,859	49,636	55,031	64,170	73,162	76,109	77,957	79,687
145	NM Institute of Mining and Technology	28,392	36,309	37,186	38,476	56,134 i	73,792	83,742	79,437
146	GA State U.	38,960	44,564	45,653	45,415	50,262	52,690	51,387	77,709
147	U. RI	50,835	53,347	61,818	60,947	60,252	70,696	76,237	77,457
148	Rensselaer Polytechnic Institute	45,010	45,955	50,777	56,907	65,571	70,576	77,238	77,295
149	U. WY	41,632	41,632 e	60,054	60,054 e	83,449	89,414	79,700	74,720
150	Rice U.	42,675	48,169	52,367	60,872	63,102	66,564	71,435	74,254
151	George Mason U.	32,881	38,849	44,980	46,210	42,630	50,381	58,252	72,542
152	San Diego State U.	58,332	64,302	67,053	66,710	73,887	73,777	65,810	69,974
153	U. OR	36,881	43,723	44,604	51,956	52,657	57,153	61,694	67,378
154	Southern IL U. Carbondale	43,207	53,604	53,018	53,953	57,434	74,520	64,703	67,094
155	U. MD Baltimore County	29,641	36,323	42,906	49,403	58,467	65,718	66,968	66,802

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156	Old Dominion U.	24,659	29,223	30,324	34,819	47,006	49,966	52,134	66,538
157	U. AL Huntsville, The	43,731	48,353	46,595	49,259	54,601	59,231	70,027	65,396
158	U. ND all campuses	19,692	33,973	41,803	49,595	46,798	56,074	63,036	65,027
159	Northeastern U.	34,467	38,540	42,931	47,283	63,514	66,495	71,502	59,911
160	U. Toledo	16,278	24,825	24,123	27,708	32,351	30,493	52,448	59,583
161	U. TX Dallas	15,684 e	26,198	30,748	31,274	43,111	44,198	46,477	59,300
162	SUNY Binghamton	18,992	21,343	23,090	25,405	25,769	29,635	35,462	59,017
163	MI Technological U.	29,613	30,005	30,264	35,670	40,188	43,081	55,294	58,763
164	U. LA Lafayette	32,073	47,796	43,769	55,218	44,620	47,308	52,075	58,667
165	U. MT-Missoula, The	33,535	39,367	43,562	51,078	54,685	52,903	55,755	58,032
166	TX Tech U.	69,918	82,785	92,515	57,592	56,623	58,591	57,878	57,902
167	Medical C. GA	52,191	51,705	56,398	58,808	67,278	61,174	60,001	57,085
168	St. Louis U. all campuses	32,442	35,444	41,189	41,189 e	47,356	48,133	54,265	56,644
169	C. of William and Mary all campuses	35,829	39,858	43,974	49,420	50,146	52,025	49,854	55,090
170	U. NV, Las Vegas	27,008	30,527	42,205	45,429	48,343	57,031	56,034	50,775
171	Brandeis U.	52,818	47,122	50,841	51,498	54,136	57,017	56,831	49,797
172	Charles R. Drew U. of Medicine and Science	36,717	48,839	49,888	51,994	43,231	47,188	52,118	49,224
173	U. TX El Paso	21,889	23,684	27,185	25,440	26,825	32,161	39,965	48,906
174	Wichita State U.	16,142	18,842	22,401	29,948	32,726	31,873	47,398	47,853
175	Wright State U. all campuses	32,033	30,962	34,860	38,052	40,328	47,711	49,713	47,770
176	SD State U.	19,717	20,085	27,652	30,962	32,042	33,275	39,033	47,758
177	U. Southern MS	20,286	25,685	35,049	35,908	37,881	39,163	47,135	47,088
178	U.S. Air Force Academy	5,323	25,589	27,198	29,998	29,438	10,547	14,504	44,297
179	U. MD Biotechnology Institute	41,627	43,673	45,140	47,725	56,135	59,297	61,757	43,213
180	U. Memphis, The	29,445	33,625	38,728	44,120	49,961	43,715	44,359	43,183
181	U. TX Arlington	17,486	15,097	15,102	19,003	28,971	29,267	32,734	43,005
182	Jackson State U.	25,663	25,445	28,843	31,641	35,876	38,273	36,888	42,739
183	FL Atlantic U.	25,111	23,995	25,946	23,767	27,388	28,896	38,598	41,788
184	U. WI Milwaukee	23,492	24,933	27,259	28,268	32,748	34,033	40,023	41,285
185	Boston C.	30,768	31,754	32,158	32,158 e	31,588	35,659	39,261	40,796
186	U. MD Ctr. for Environmental Science	36,635	38,501	38,344	39,631	41,022	40,146	40,720	40,556
187	San Jose State U.	22,709	25,003	28,323	29,268	32,886	34,687	34,241	38,521
188	Syracuse U. all campuses	42,476	45,870	48,846	58,276	62,020	36,100	36,396	38,455
189	OH U. all campuses	27,146	36,601	37,527	38,704	43,229	38,000	38,671	38,108
190	Desert Research Institute	29,697	29,465	31,757	34,783	34,570	38,511	40,238	38,045
191	Lehigh U.	29,058	22,687	29,211	32,048	36,709	33,469	36,537	37,156
192	U. MA Lowell	20,656	22,827	22,783	22,163	23,852	27,635	34,824	36,486
193	U. MO-Rolla	28,799	32,222	35,999	41,242	38,337	37,384	30,395	36,477
194	Howard U.	30,148	35,387	37,577	41,404	41,609	36,465	38,020	36,419

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
195	SUNY Upstate Medical U.	17,294	22,326	25,931	32,090	34,931	37,181	39,699	36,359
196	Loma Linda U.	24,183 i	23,996	26,296	29,651	29,898	32,451	28,020	35,890
197	U. PR Medical Sciences Campus	23,913	29,089	31,124	34,092	35,809	38,424	38,863	35,570
198	Loyola U. Chicago	37,156	37,607	37,581	36,134	40,551	37,669	34,940	34,568
199	CUNY The City C.	17,099	17,103	17,712	25,947	28,992	30,316	32,840	34,452
200	Meharry Medical C.	14,984 i	20,508	25,427	27,507	29,105	32,878	33,218	34,152
201	CO School of Mines	23,654	26,515	29,162	27,087	26,499	28,729	29,939	34,050
202	U. TX San Antonio	11,331	11,115	13,654	15,738	22,429	30,259	30,542	33,106
203	U. AL, The	33,133	37,130	34,187	35,132	34,531	35,129	36,382	32,846
204	SUNY Health Science Ctr. Brooklyn	31,626 e	31,153 i	30,680 i	30,207 i	29,732	31,064	29,809	32,299
205	NY Medical C.	24,283	25,222	30,492	33,521	32,460	34,397	34,365	31,644
206	Eastern VA Medical School	26,250	28,572	32,801	33,798	33,721	33,013	31,453	30,777
207	CUNY Hunter C.	19,964	25,905	32,704	34,931	33,024	31,308	27,046	30,402
208	Southern IL U. Edwardsville	1,270	14,043	17,100	18,973	20,883	23,737	26,904	30,333
209	U. MA Boston	11,672	13,121	15,793	15,460	18,148	21,056	25,952	30,272
210	NC Agricultural and Technical State U.	15,629	15,353	17,304	19,534	22,936	23,698	24,044	28,781
211	U. South AL	9,865 e	17,692	19,371	20,096	19,431	19,308	25,883	28,466
212	U. North TX Health Science Ctr. Ft. Worth	11,035	12,893	15,388	18,520	22,325	25,124	28,187	28,179
213	U. MO-Kansas City	18,795	24,060	31,104	31,968	30,780	26,016	26,870	27,509
214	U. Southern ME	4,479 i	7,592 i	10,705 i	13,818 i	16,931 i	20,045	34,799	27,232
215	U. Akron all campuses	22,266	28,080	27,953	27,488	26,888	28,440	27,138	27,182
216	Morehouse School of Medicine	19,670	23,956	27,154	33,317	30,652	28,378	27,886	27,077
217	Portland State U.	16,838	17,683	21,433	21,433 e	28,940	28,763	26,025	27,007
218	Creighton U.	17,674	18,982	24,116	25,451	27,022	25,615	28,374	26,872
219	SUNY C. of Environmental Science and Forestry	27,854	26,337	26,783	19,419 i	12,054	17,954 i	23,854	26,359
220	Northern AZ U.	14,657	17,263	17,446	19,967	22,870	27,632	26,566	25,820
221	Stevens Institute of Technology	13,855	13,855 e	18,334 i	22,814	22,997	25,848	25,684	25,743
222	Brigham Young U. all campuses	19,171	21,228	22,557	23,565	23,961	25,973	26,653	25,664
223	Miami U. all campuses	12,804	13,279	13,727	15,377	18,026	19,229	23,729	25,052
224	TX Tech U. Health Science Ctr.	NA	NA	NA	19,827	18,697	22,013	21,006	24,716
225	Rochester Institute of Technology	11,416	13,500	17,197	19,423	21,068	22,107	20,961	24,018
226	FL A&M U.	23,865	31,147	23,503	31,408	26,400	34,293	16,541	24,012
227	Kent State U. all campuses	11,316	12,868	14,549	12,712	11,045	11,076	19,001	23,293
228	U. SD	5,546	8,368	11,148	15,523	18,681	22,613	21,473	22,742
229	U. PR Rio Piedras Campus	10,341	9,736	11,473	12,417	20,546	21,609	21,379	22,662
230	IL Institute of Technology	14,722	19,909	25,744	22,948	25,498	22,646	22,955	22,538
231	Marshall U.	7,218	11,285	15,070	20,221	22,321	18,385	22,519	22,423
232	U. NC Charlotte	7,905	8,773	12,599	17,425	16,042	18,463	22,165	21,869
233	San Francisco State U.	5,223 e	14	12,500	42,903	23,655	27,333	20,069	21,191

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
234	Hampton U.	9,158	11,067	18,673	31,645	42,969	28,705	24,017	21,089
235	U. PR Mayaguez Campus	18,627	19,939	20,029	16,686	20,492	21,080	19,813	20,763 i
236	ID State U.	8,847	10,119	12,243	14,385	19,700	16,754	19,887	20,728
237	Air Force Institute of Technology	8,311	9,243	12,454	13,001	14,666	18,783	16,801	20,497
238	U. MA Dartmouth	9,488	15,030	16,476	18,074	19,452	19,171	19,538	20,431
239	Catholic U. America, The	17,539	22,883	24,475	23,610	21,489	17,662	19,919	20,375
240	U. NC Wilmington	10,307	14,568	12,762	14,381	20,617	13,609	17,064	20,100
241	Mercer U. all campuses	15,337	12,998	14,996	18,437	20,042	19,529	18,096	19,624
242	Southern Methodist U.	8,948	9,774	9,890	10,432	11,839	12,475	13,381	19,530
243	LA Tech U.	9,986	12,110	15,055	16,118	15,832	15,276	14,166	19,406
244	U. of the VI	8,645 i	13,981	15,762	17,874	16,735	17,495	17,842	18,099
245	Clarkson U.	8,322	8,322 e	7,466	14,703	13,826	16,143	16,976	17,654
246	U. LA Monroe	7,373 i	6,611 i	5,849 i	5,086	5,524	4,376	4,674	16,997
247	U. CA, Merced	na	na	na	na	4,468	7,527	10,945	16,802
248	SD School of Mines and Technology	6,922	9,692	10,853	10,626	13,347	12,589	14,480	16,503
249	East Carolina U.	10,535	11,513	12,520	13,296	14,240	14,061	15,970	16,192
250	U. North TX	14,224	13,227	13,990	11,958	12,617	14,819	14,207	15,932
251	Teachers C. Columbia U.	9,676	10,409	9,603	9,684	10,669	11,411	12,585	15,198
252	Albany Medical C.	12,836	13,104	13,394	15,562	15,465	16,227	15,029	15,108
253	CA State U. Long Beach	3,995	8,026	13,732	9,877	9,594	10,322	13,867	14,971
254	Tuskegee U.	9,539	9,965	10,067	11,519	10,966	11,651	14,329	14,963
255	Northern IL U.	9,028	10,366	12,368	11,687	11,239	16,627	16,710	14,948
256	Worcester Polytechnic Institute	9,348	10,493	12,357	14,045	14,679	14,483	13,409	14,912
257	CA State Polytechnic U. San Luis Obispo	12,193	14,002	13,598	9,417	11,235	12,529	14,517	14,866
258	Western MI U.	14,976	19,023	21,571	13,912	17,518	18,005	17,182	14,617
259	U. Tulsa	12,553	11,603	11,527	15,375	12,740	12,358	14,735	14,270
260	Cleveland State U.	12,986	13,855	14,112	16,888	15,884	14,496	15,948	14,131
261	TX A&M U. Kingsville	6,919	8,208	10,203	11,102	13,389	13,343	13,794	13,519
262	CA State U. Northridge	6,190 e	10,619	11,638	10,305	8,767	7,490	12,412	12,793
263	Polytechnic U.	8,277	10,915	11,271 i	11,627	15,295	14,479	14,216	12,674
264	Morgan State U.	2,390	1,674	7,493	8,580	9,544	13,523	11,257	12,336
265	U. MO-St. Louis	10,084	11,519	12,819	12,429	12,056	11,713	10,907	12,297
266	Rosalind Franklin U. of Medicine and Science	8,037	8,645	9,923	10,614	11,920	10,981	12,199	12,128
267	TN State U.	12,791	15,262	14,306	15,255	14,669	14,096	12,475	12,090
268	TX State U. San Marcos	8,884	8,109	7,621	9,130	7,261	7,034	7,890	11,792
269	TN Technological U.	9,347	9,823	9,609	8,779	9,312	9,575	12,226	11,742
270	Alcorn State U.	7,370	5,809	7,619	7,622	6,256	6,593	9,056	11,665
271	TX A&M U. Corpus Christi	5,606	9,124	10,281	12,266	8,845	12,654	11,933	11,662
272	CUNY Queens C.	4,595	6,718	6,430	6,819	6,876	7,432	9,186	11,377

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
273	Boise State U.	6,153	6,446	7,583	9,126	9,162	7,848	10,947	11,222
274	U. Denver	12,944	10,539	9,949	12,500	11,716	10,581	9,833	11,029
275	Prairie View A&M U.	11,297	10,444	11,193	10,989	11,810	11,444	12,019	10,786
276	Bowling Green State U. all campuses	5,028	5,327	7,336	8,271	9,746	9,912	9,120	10,712
277	Marquette U.	7,236	9,807	11,385	9,652	10,338	10,445	9,744	10,373
278	U.S. Military Academy	5,577 i	6,006 i	6,435 i	6,864 i	7,293 i	7,722 i	8,167	10,123
279	Baylor U.	2,698	3,868	4,203	5,242	6,364	6,133	8,951	9,867
280	U. AR Little Rock	2,088	2,088 e	24,284	4,127	4,345	9,331	9,598 i	9,866
281	CA State U. San Bernardino	1,906	3,740	7,576	8,755	8,905	11,120	8,323	9,703
282	Duquesne U.	5,003	5,955	6,848	8,082	8,096	8,345	8,850	9,542
283	Villanova U.	5,380 i	5,481 e	6,479 i	7,477 i	8,475 i	9,473 i	10,473	9,484
284	Oakland U.	7,397	6,869	6,175	6,616	6,505	9,169	8,872	9,465
285	Northeastern OH Universities C. of Medicine	4,532	4,525	4,364	5,601	5,703	5,294	4,984	9,165
286	MO State U.	1,550	1,888	1,423	2,935	6,367	5,188	9,320	9,042
287	AL A&M U.	11,977 i	15,717	36,856	17,429	16,075	14,431	13,672	8,959
288	CA State U. Los Angeles	5,557	7,933	7,073	8,728	10,130	8,956	10,053	8,957
289	Tarleton State U.	6,607	7,871	8,534	7,194	8,512	8,069	9,151	8,857
290	U.S. Naval Academy	3,140	2,324	3,451	5,985	6,623	6,850	7,973	8,849
291	Humboldt State U.	5,714 i	5,871 i	6,028 i	6,185 i	6,342 i	6,500	7,087	8,808
292	FL Institute of Technology	6,195	6,669	8,004	7,801	7,539	7,684	6,985	8,642
293	Western KY U.	4,165	5,281	4,263	5,729	6,607	8,701	10,402	8,425
294	VA State U.	5,066	7,144	7,209	5,953	5,048	8,189	8,170	8,282
295	Universidad Central del Caribe	6,943	7,103	8,274	9,797	9,181	8,790	9,446	8,243
296	East TN State U.	8,222	11,701	12,971	7,788	8,098	7,943	8,020	8,237
297	DE State U.	2,494	3,162	3,944	4,678 i	5,412	7,016	7,418	8,052
298	Ball State U.	3,071	4,008	3,878	7,483	8,490	8,625	7,913	8,031
299	CA State U. Fresno	4,531	9,398	13,558	15,211	13,498	9,749	5,297	7,967
300	Norfolk State U.	3,984	4,967	4,532	6,200	6,758	5,144	6,491	7,893
301	U. NC Greensboro	3,881	4,454	3,454	3,762	4,843	6,059	6,130	7,876
302	Ponce School of Medicine	3,842	4,365	7,491	10,140	7,840	7,654	9,103	7,686
303	SC State U.	2,915 e	2,931	3,225	3,548	3,796	3,796	3,796	7,608
304	Nova Southeastern U.	2,594	3,327	4,752	5,139	5,789	6,445	6,697	7,545
305	Clark Atlanta U.	17,173	17,194	12,760	13,576	12,790	11,155	8,543	7,486
306	U. AR Pine Bluff	5,240	5,976	6,543	6,246	6,685	6,774	5,831	7,238
307	Wesleyan U.	5,846	5,614	6,682	7,741	8,036	8,170	7,878	7,076
308	U. HI Hilo	NA	10,841	5,317	4,978	9,596	7,843	7,926	6,916
309	Embry-Riddle Aeronautical U.	7,711	5,102	6,641	8,558	13,325	10,628 i	7,930	6,864
310	Fordham U.	3,639	3,793	3,814	3,391	3,413	6,033	5,908	6,844
311	AR State U. main campus	1,347	1,278	2,634	4,572	4,035	6,007	7,494	6,816

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
312	Stephen F. Austin State U.	4,994	5,582	4,954	3,663	4,144	8,171	6,957	6,742
313	Southern U. and A&M C. all campuses	7,306 i	6,310 i	5,314 i	4,317	4,333 i	4,350	5,590	6,701
314	CUNY Graduate Ctr.	2,906	2,391	3,068	5,106	5,943	3,913	4,380	6,579
315	NC Central U.	2,473 i	3,297 i	4,121 i	4,945 i	5,769 i	6,597	4,337	6,323
316	U. AK Anchorage all campuses	8,233 i	11,685 e	12,326	13,285	13,594	8,844	7,122	6,270
317	Lincoln U. (Jefferson City, MO)	2,236	3,291	2,601	2,181	2,656	5,395	5,573	6,263
318	Western WA U.	3,560	4,019	4,716	4,519	4,711	6,453	6,371	6,240
319	Grand Valley State U.	1,161	2,374	2,237	4,408	3,354	3,375	4,414	6,178
320	IL State U.	3,902	3,848	3,963	4,498	5,203	4,874	4,831	6,111
321	U. GU	3,752	4,571	6,989	9,458	8,531 i	7,604	7,059	6,106
322	CA State U. Fullerton	7,398 i	9,282	5,318	4,432	4,167	4,522	4,311	6,096
323	MT Tech of the U. MT	4,616	4,797	6,155	5,952	5,947	6,372	5,537	6,051
324	U. of the Pacific	1,241	1,891	1,877	2,961	3,750	4,161	4,131	5,946
325	U. MD Eastern Shore	5,626	5,905	5,124	5,272	5,568	4,454	3,408	5,917
326	U. TX-Pan American	2,279	2,336	2,920	3,747	4,038	5,006	5,217	5,865
327	CA State U. Monterey Bay	1,911	1,911 e	2,644	3,002	4,045	4,107	7,032	5,784
328	U. DC	3,001	4,223	4,125	4,693	4,426	5,065	5,165	5,629
329	U. TX Brownsville	ne	ne	ne	ne	ne	ne	ne	5,500
330	Alfred U. all campuses	6,678	6,916	6,360	6,395	8,239	6,347	5,474	5,478
331	C. Charleston	3,069	3,295	3,716	4,875	4,433	5,719	5,308	5,397
332	Xavier U. LA	5,113	6,413	5,515	5,585	4,784 i	3,982	4,394	5,253
333	James Madison U.	1,449	2,867	4,484	5,442	5,009	4,799	5,455	5,235
334	Clark U.	3,039	3,418	5,638	5,638 e	4,480	5,304	4,899	5,120
335	Morehouse C.	2,994 i	3,135 i	3,276 i	3,417 i	3,559	6,008	5,445	5,021
336	West TX A&M U.	4,515	5,261	4,734	3,879	3,463	4,523	4,638	5,008
337	U. Baltimore	ne	ne	ne	ne	7,754	7,856	1,169	4,700
338	Lamar U.	3,441	4,030	4,029	3,365	3,375	3,277	3,695	4,692
339	KY State U.	3,996	6,188	6,395	3,298	3,044	3,340	3,548	4,671
340	Rowan U.	ne	ne	6,011	6,177	4,944	4,581	4,772	4,658
341	Central MI U.	2,032	2,252	2,339	5,681	4,938	4,033	4,512	4,580
342	Wellesley C.	5,498	5,498 e	5,733	5,714	4,252	4,032	4,634	4,561
343	CA State U. Sacramento	337 i	312 i	287 i	262 i	237 i	212 i	183	4,386
344	Eastern MI U.	2,992	3,164	4,051	3,266	5,910	3,580	3,027	4,341
345	U. West FL	7,395	8,652	15,354	7,805	9,712	4,429	4,840	4,337
346	OR Institute of Technology	ne	1,025	1,752	2,378	3,018	4,047	4,155	4,296
347	Smith C.	2,578	1,827	2,194	2,631	2,749	3,884	3,498	4,237
348	Milwaukee School of Engineering	2,117	2,499	2,448	3,146	2,628	2,933	3,740	4,156
349	Williams C.	2,407 i	2,961	3,295	3,130	3,459	4,074	3,983	4,084
350	CUNY Brooklyn C.	6,442	6,217	5,575	3,917	3,731	4,621	4,960	4,056

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
351	U. NC Asheville	1,269	1,232	1,108	1,644	3,021	3,192	5,202	4,039
352	TX Southern U.	2,468	4,189	3,088	4,088	4,641	4,299	3,688	4,027
353	Langston U.	2,863	3,975	4,332	3,578	4,371	4,416	4,405	4,025
354	WV State U.	63 e	519 i	975 i	1,433	2,537	2,467	2,765	4,016
355	Santa Clara U.	2,723 i	3,024 i	3,364 i	ne	3,613 i	3,700 i	3,814 i	3,986
356	Kettering U.	1,161	1,311	1,295	661	1,758	3,473	2,209	3,689
357	Gallaudet U.	1,824	1,950	2,013	1,804	2,202	2,013	3,520	3,679 i
358	Appalachian State U.	752	781	986	555	1,076	2,158	2,912	3,586
359	TX Christian U.	3,678	3,300	3,693	3,960	4,216	4,090	3,924	3,568
360	St. Cloud State U.	2,066 i	2,197 i	2,329	2,005	2,657	2,224	2,656	3,543
361	CA State U. Dominguez Hills	4,311	3,970	4,503	5,320	3,088	3,190	6,016	3,506
362	CUNY Herbert H. Lehman C.	2,255	2,955	3,981	3,291	4,019	4,476	4,852	3,498
363	Albany C. of Pharmacy	1,208	906	894	855	2,565	2,307	3,248	3,486
364	Claremont Graduate U.	2,369	1,949	1,652	2,295	2,677	3,100	3,121	3,482
365	Rose-Hulman Institute of Technology	18,540	7,912	13,201	6,388	4,914	4,700	3,271	3,478
366	Southern CT State U.	596 e	361	2,911	424	2,671	2,295 i	1,918	3,448
367	U. TX Tyler	ne	ne	ne	ne	440	795	1,395	3,393
368	Amherst C.	1,802	2,115	2,115 e	2,604	2,725	3,388	2,926	3,364
369	FL Gulf Coast U.	ne	ne	ne	1,407	2,678	3,133	3,479	3,344
370	Calvin C.	1,300	1,509	1,714	1,907	1,857	1,540	2,063	3,343
371	Palmer C. of Chiropractic	ne	ne	ne	ne	ne	ne	ne	3,340
372	Western Carolina U.	763	653	577	2,414	1,516	1,905	2,602	3,329
373	Ft. Valley State U.	2,768 e	2,985	2,892	2,596	2,497	2,570	2,610	3,311
374	Pomona C.	1,298	2,063	1,962	1,996	2,153	2,584	3,108	3,288
375	U. WI Stevens Point	1,827	1,849	1,980	2,042	1,926	2,335	3,077	3,233
376	U. North FL	1,222	2,061	4,421	3,029	3,448	4,110	3,875	3,158
377	American U.	2,565	4,420	2,517	1,745	1,542	2,410	2,713	3,150
378	St. Francis U. (Loretto, PA)	ne	ne	ne	ne	4,981	4,114	3,677	3,147
379	Sam Houston State U.	2,441	2,976	2,404 i	1,832 i	1,258	1,958	2,500	3,049
380	Mt. Holyoke C.	1,734	2,644	3,174	2,877	3,179	2,563	3,127	3,044
381	CUNY C. Staten Island	1,635	1,944	2,540	2,730	2,577	2,282	3,494	3,027
382	Central WA U.	1,880	1,738	2,698	3,134	1,893	2,183	2,431	3,025
383	Harvey Mudd C.	4,820 i	3,941 i	3,062 i	2,180 e	1,738	2,301	2,739	3,005
384	Elizabeth City State U.	1,248	1,058	1,103	1,044	929	703	1,892	2,979
385	Bryn Mawr C.	3,066	3,502	4,705	5,664	4,400	4,254	3,881	2,974
386	CUNY John Jay C. of Criminal Justice	1,070	844	930	900	932	779	2,259	2,964
387	U. Northern IA	1,961	2,254	1,821	1,424	1,353	1,205	3,455	2,960
388	U. WI La Crosse	1,563	1,939	1,483	1,963	3,246	2,838	3,414	2,949
389	La Salle U.	294	20	104	260	ne	243	2,758	2,920

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
390	CA State U. East Bay	2,176 i	2,455	1,559	2,160	3,259	2,833	3,509	2,870
391	Fisk U.	2,722	3,030	3,000	5,000	6,000	6,000	6,000	2,851
392	Long Island U. all campuses	1,201	1,477	1,769	1,377	1,684	2,880	2,853 i	2,825
393	Barnard C.	1,376	1,064	1,516	1,516 e	3,068	2,742	2,764	2,823
394	U. Richmond	1,271	1,786	1,470	1,625	2,097	1,923	1,958	2,823
395	Morehead State U.	1,231 i	1,355 i	1,487	1,443	2,254	1,332	1,758	2,822
396	Oakwood C.	567 i	567 i	479 i	501 i	528 i	557 i	ne	2,737
397	New School, The	5,791	5,791 e	3,435	5,642	5,889	6,950	7,795	2,703
398	Midwestern U. (Chicago, IL)	2,421	2,562	2,725	2,816	3,204	2,786	2,358	2,697
399	DePaul U.	1,628	2,389	3,086	3,748	4,321	3,957	2,839	2,675
400	Fairfield U.	1,648	810	1,024	1,926	1,897	1,806	2,148	2,651
401	Colgate U.	1,694	1,544	1,425	1,927	1,308	1,837	2,217	2,562
402	Union C. (Schenectady, NY)	1,045	2,316	2,086	4,068	2,571	1,992	2,086	2,557
403	U. TX of the Permian Basin	ne	ne	ne	ne	ne	ne	995	2,556
404	Central State U.	763 i	966 i	1,169 i	1,372 i	1,579	2,320	2,320	2,553
405	Sul Ross State U.	779	767	838	1,058	2,375	2,676	3,056	2,542
406	Black Hills State U.	ne	ne	ne	1,184	1,566	2,628	2,935	2,539
407	AL State U.	1,433 e	1,433	1,633	1,688	1,900	1,900	1,900	2,461
408	Macalester C.	1,923	3,024	2,091	2,371	2,081	2,351	2,349	2,457
409	West Chester U. PA	794 e	1,115	883	1,956	457	244	762	2,454
410	Albany State U.	1,972	1,987	2,178	2,619	2,091	1,455	1,331	2,441
411	U. Hartford	1,068	1,130	1,336	1,136	1,360	1,633	1,923	2,427
412	Arcadia U.	ne	ne	ne	ne	324 i	334 i	2,450	2,426
413	Tougaloo C.	1,007	898 i	789 i	680 i	571 i	461	1,675	2,381
414	Towson U.	2,282	2,449	1,265	614	2,041	1,038	1,098	2,357
415	Murray State U.	2,331	2,112	2,778	4,059	3,506	3,364	2,555	2,335
416	Southeastern LA U.	645	836	900	1,681	1,714	2,150	1,650	2,302
417	Seton Hall U.	826	1,200	1,779	1,941	3,418	2,395	2,685	2,290
418	Fairmont State U.	ne	ne	ne	ne	ne	ne	ne	2,289
419	Eastern WA U.	2,620	2,275	1,156	1,339	1,711	1,999	2,136	2,277
420	TX Woman's U.	2,898	2,822	2,932	2,120	1,871	1,975	2,047	2,253
421	SUNY C. of Optometry	1,435	1,750	3,187	2,435	2,481	1,913	2,231	2,238
422	St. Joseph's U.	1,628	2,703	2,660	3,250	3,195	3,037	2,930	2,215
423	CUNY York C.	1,117	1,664	1,829	1,710	1,513	1,525	2,550	2,210
424	Hope C.	1,417	1,514	1,457	2,213	2,060	2,926	2,603	2,198
425	Bucknell U.	1,791	1,900	2,123	1,817	1,820	2,841	1,744	2,193
426	U. WI Superior	404	889	1,057	1,136	1,140	1,844	2,501	2,178
427	SUNY C. Geneseo	644	682	1,366	862	951	1,036	1,743	2,139
428	U. PR Humacao	ne	ne	ne	3,382	3,540	4,429	5,220	2,124

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
429	Franklin & Marshall C.	698	989	1,028	1,300	2,225	1,645	1,993	2,114
430	Occidental C.	1,543	2,503	2,633	2,371 i	2,109	1,449	1,652	2,110
431	Shaw U.	487 i	874 i	1,261	1,270	1,864	1,815	1,826	2,090
432	Winston-Salem State U.	6,057	2,022	2,022 e	2,073 e	2,176 i	1,864 i	2,086 i	2,086 i
433	U. AK Southeast all campuses	771 i	868 e	1,171	968	639	720	1,087	2,078
434	Pittsburg State U.	2,161	1,951	1,894	2,101	2,522	2,810	2,533	2,065
435	NY Institute of Technology all campuses	571	380	1,928 i	3,476	3,505	3,613	2,708	2,061
436	U. Northern CO	1,265	1,376	2,240	1,966	2,269	2,566	1,822	2,039
437	Spelman C.	3,406	3,082	2,298	2,481	2,759	3,084	3,741	2,005
438	Coastal Carolina U.	1,038	1,100	940	1,260	656	1,210	1,095	1,969
439	Dillard U.	349	528	668	679	1,401 i	2,123 i	2,846	1,962
440	Chicago State U.	1,415	1,297	1,155	1,493 i	1,832	2,119	2,124	1,960
441	Bowdoin C.	512	1,176	1,673	2,073	2,254	2,281	2,186	1,942
442	Carleton C.	1,176	1,688	1,965	1,897	2,039	1,785	1,852	1,942
443	Savannah State U.	2,181	2,206	2,150 i	2,094	2,421	2,342	2,301	1,902
444	CA State U. Bakersfield	3,703 e	4,344 i	4,985 i	5,626 i	6,268	6,379	1,833	1,873
445	PA C. of Optometry	800	992	1,226	1,509	1,149	1,642	1,587	1,851
446	Middlebury C.	1,285	1,587	1,587 e	1,647 i	1,707 i	1,767 i	1,830	1,789
447	Lafayette C.	1,008	1,344	2,065	1,806	1,610	1,612	1,472	1,785
448	U. of the Sciences Philadelphia	573	833	453	544	704	1,260	1,449	1,777
449	Bradley U.	1,197	1,928	1,755	1,638	1,606	1,905	1,860	1,760
450	CA State Polytechnic U. Pomona	2,498	2,806	3,922	4,059	2,765	2,502	2,466	1,750
451	U. New England	ne	ne	ne	ne	ne	1,528	2,154	1,743
452	Swarthmore C.	966	1,574	1,717	2,200	1,992	2,385	1,449	1,738
453	Loyola Marymount U.	ne	ne	674	736	621	1,599	1,597	1,708
454	IN State U. all campuses	1,504	1,220	1,369	1,680	1,473	2,271	1,697	1,689
455	Lawrence Technological U.	681	539	471	655	917	2,137	2,001	1,689
456	Northern KY U.	142 i	169	434	876	1,368	1,820	1,584	1,659
457	St. John's U. (Jamaica, NY)	1,184 e	1,313 i	1,442 i	1,571 i	1,702	1,538	1,783	1,657
458	TX A&M U. Commerce	262	263	303	267	608	858	1,616	1,653
459	Pace U. all campuses	378	425	425 e	1,099	1,053	566	718	1,642
460	U. Central AR	2,405	2,306	3,229	3,559	3,950	7,002	7,036	1,638
461	SUNY C. Buffalo	1,552	1,969	2,610	2,375	1,977	1,699	1,292	1,625
462	U. IL Springfield	2,025	2,324	1,324	1,491	1,208	1,083	1,321	1,622
463	New England C. of Optometry	1,608	2,154	2,166	2,297	1,870	1,711	1,356	1,604
464	Western IL U.	7,759	7,042	1,350	1,404	1,190	1,154	1,485	1,597
465	Clafflin U.	2,074	203	293	255	222	930	1,261 i	1,592
466	Middle TN State U.	799	479	2,219	2,421	2,166	2,015	2,135	1,590
467	Dowling C.	ne	ne	ne	ne	ne	ne	1,566	1,545 i

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
468	Monmouth U.	118	85	316 i	547 i	779	1,693	1,766	1,545
469	Trinity U.	1,241 e	474	935	1,428	1,386	1,206	1,244	1,530
470	MN State U. Mankato	751	1,054	768	929	549	880	964	1,521
471	U. WI Oshkosh	670	662	942	1,252	1,067	1,115	1,059	1,516
472	GA Southern U.	841	1,127	2,488	2,042	2,078	1,812	1,789	1,511
473	NM Highlands U.	2,235	2,706	2,598	2,032	1,202	1,419	1,083	1,497
474	U. West GA	1,360	1,029	1,034	1,027	1,327	1,042	1,172	1,462
475	Ithaca C.	2,034	2,513	2,187	2,152	1,814	1,657	1,434	1,457
476	Hobart and William Smith Colleges	ne	ne	ne	ne	ne	ne	685	1,443
477	SUNY C. Old Westbury	1,310 e	1,214	1,295	1,326	1,565	1,765	1,682	1,443
478	Rider U.	884	939	912	1,276	1,096	1,287	1,330	1,410
479	Montclair State U.	766	889	1,008 i	1,128	1,511	1,693	1,341	1,405
480	Haverford C.	1,178	1,215	1,428	1,679	1,259	967	1,182	1,397
481	Kansas City U. of Medicine and Biosciences	1,166	1,436	1,020	1,098	944	1,183	1,267	1,394
482	Philadelphia C. of Osteopathic Medicine	935	891	836	961	973	1,034	1,754	1,390
483	U. San Francisco	700 e	695 i	690	1,163	1,082	798	1,096	1,390
484	CA State U. Chico	3,904	5,486	4,427	4,500 e	2,620	2,208 i	1,796 i	1,384
485	Governors State U.	175 i	188 i	201 i	214 i	237	877	1,336	1,373
486	Northwestern Health Sciences U.	ne	ne	ne	ne	ne	820	1,289	1,361
487	Furman U.	719	1,414	1,136	1,556	1,477	1,433	1,042	1,359
488	Benedict C.	1,044	1,061	1,071	1,035	1,494	1,314	1,604	1,352
489	St. Olaf C.	453	847	710	516	643	854	1,060	1,321
490	Dickinson C.	1,528	1,475	1,550	1,608	1,163	847	1,076	1,311
491	Fayetteville State U.	589	311	586	166	821	632	1,743	1,304
492	Reed C.	814	1,145	1,129	1,295	1,237	1,118	1,220	1,291
493	IL Wesleyan U.	ne	ne	ne	ne	322	339	856	1,290
494	Northeastern IL U.	274	216	168	206	227	239	1,005	1,278
495	Seattle U.	563 i	622 i	681 i	744	764	930 i	1,096 i	1,262
496	Hamilton C. (Clinton, NY)	931	1,821	1,459	1,393	1,742	1,504	1,907	1,261
497	Davidson C.	291 i	292 i	293 i	294 i	295 i	296	852	1,239
498	Western U. of Health Sciences	369	1,132	1,005	1,330	946	1,575	909	1,217
499	Colby C.	968	2,929	1,294	995	1,241	1,482	1,131	1,216
500	Sinte Gleska U.	ne	ne	ne	ne	732	793	913	1,208
501	Plymouth State U.	ne	ne	ne	ne	ne	ne	ne	1,193
502	Youngstown State U.	849	1,259	1,398	1,831	1,382	1,308	611	1,193
503	U. Redlands	2,522 i	2,728	1,848	2,038	1,413	1,172	1,206	1,190
504	A.T. Still U. of Health Sciences	907	1,134	691	839	1,206	1,439	826	1,179
505	Northwestern State U.	405 i	416 i	427 i	438 i	449 i	460	371	1,175
506	Whitman C.	469	278	619	714	595	416	299	1,167

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
507	CUNY Baruch C.	375 e	762	507	687	896	1,118	1,030	1,161
508	Wheeling Jesuit U.	2,804 i	3,504 i	4,204 i	4,904 i	5,604 i	6,304 i	7,005	1,131
509	Lewis & Clark C.	420	593	622	399	479	854	1,048	1,113
510	MT State U. Billings	ne	ne	ne	ne	694 i	919	846	1,107
511	U. PR Cayey	ne	ne	ne	ne	ne	ne	411	1,057
512	U. WI Green Bay	602	900	1,122	1,739	1,416	1,328	1,031	1,056
513	Vassar C.	1,716 e	1,554 i	1,392 i	1,230 i	1,068 i	902	600	1,052
514	U. WI Eau Claire	514	839	1,131	1,056	1,146	1,154	1,327	1,040
515	SUNY C. Oswego	783	1,112	1,207	2,055	1,010	1,024	1,093	1,026
516	Winona State U.	ne	ne	ne	ne	ne	ne	1,216	1,020
517	Hampshire C.	3,152	3,224	2,754	3,051	2,723	1,145	1,118	1,015
518	Des Moines U.	767	767 e	676	676 e	787 i	899	796	1,002
519	VA Military Institute	613	695	904	543	662	815	659	979
520	Grinnell C.	560	1,098	977	964	1,079	699	787	955
521	MS Valley State U.	1,316	1,030	636	493	606	794	844	951
522	Lincoln U. (Lincoln University, PA)	620	718	704	526	526	606	450	948
523	Roger Williams U. Bristol	ne	ne	ne	352	849	1,050	867	945
524	Northern MI U.	352 i	376 i	400 i	424 i	448 i	472 i	500	944
525	Indiana U. PA all campuses	756	794	841	2,368	684	368	410	932
526	Marist C.	ne	ne	ne	ne	520 i	545 i	ne	927
527	Bates C.	940	1,217	1,340	1,006	1,077	1,549	1,020	915
528	Western States Chiropractic C.	ne	ne	ne	ne	ne	ne	ne	907
529	Southern OR U.	200	585	741	836	1,015	760	875	906
530	Angelo State U.	ne	ne	ne	ne	ne	677	678	901
531	C. of the Holy Cross	664	532	490	683	505	1,254	987	883
532	Wilberforce U.	160 i	120 i	80	411 i	742 i	1,073 i	1,405	879
533	Washington and Jefferson C.	ne	ne	ne	ne	ne	ne	ne	874
534	CT C.	828 i	960 i	1,092 i	1,224 i	1,358	1,127	1,020	867
535	Valparaiso U.	391	349	356	551	488	699	763	866
536	U. Central OK	795	810	180	157	216	841	406	865
537	Andrews U.	712	597	469	584	533	819	1,108	845
538	Gonzaga U.	ne	ne	0	ne	ne	ne	ne	844
539	Augustana C. (Sioux Falls, SD)	313 i	304	324	288	644	892	807	843
540	Nicholls State U.	687	820	690	1,075	1,475	1,121	922	841
541	U. of St. Thomas (St. Paul, MN)	209	243	192	281	324	368	536	833
542	Loyola U. New Orleans	459 i	486 i	513 i	540 i	567	372	408	828
543	Pacific U.	299	157	823	622 i	421	402	793	808
544	Christopher Newport U.	ne	ne	2,055	2,029	1,941	789	709	805
545	St. Mary's U. (San Antonio, TX)	362	293	300	512	405	183	623	785

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
546	Skidmore C.	250	519	632	785	1,138	772	726	782
547	C. NJ, The	ne	2,686	2,313 i	1,940 i	1,567 i	1,193	688	772
548	Truman State U.	576 i	487	521	588	524	672	593	760
549	Bridgewater State C.	371	473	419	258	230	495	657	752
550	Concordia C. (Moorhead, MN)	ne	ne	ne	ne	ne	ne	ne	743
551	Allegheny C.	1,023	1,306	974	1,007	751	638	787	738
552	Drake U.	366	1,053	1,053 e	1,255	901	966	622	730
553	Augsburg C.	497	655	734	493	606	579	676	728
554	Oberlin C.	325	439	471	381	1,059	810	773	726
555	U. Portland	719	639	543	634	477	801	887	722
556	Eastern IL U.	126 i	252 i	378 i	504 i	630 i	756 i	885	713
557	U. Houston-Clear Lake	11,519	8,362	1,224	754	743	789	851	709
558	SUNY C. Brockport	722 e	739 i	757	755	659	839	1,025	706
559	Barry U.	ne	ne	ne	ne	ne	ne	ne	697
560	U.S. Coast Guard Academy	468	1,128	1,166	866	660	542	1,020	696
561	McNeese State U.	471	709	743	834	614	392	316	691
562	Haskell Indian Nations U.	ne	ne	ne	ne	ne	ne	ne	687
563	Hendrix C.	480 i	530 i	580 i	631	550	685	375	677
564	CA State U. San Marcos	ne	ne	ne	ne	ne	ne	ne	670
565	Claremont McKenna C.	ne	ne	ne	ne	ne	ne	678 i	669 i
566	Trinity C. (Hartford, CT)	1,010 e	464	856	768	1,215	593	951	669
567	Mesa State C.	ne	ne	ne	ne	ne	ne	ne	657
568	Sonoma State U.	736	341	493	260	650	637	408	652
569	Hofstra U.	661	661 e	678 i	695 i	712 i	730	687	651
570	Philadelphia U.	ne	ne	ne	ne	227 i	858	848	645
571	CO C.	1,548	1,286	1,318	917 i	516 i	ne	ne	644
572	Grambling State U.	2,264 e	2,452	2,218	1,934	1,784	567	428	643
573	Evergreen State C.	487	441	511	354	647	548	739	636
574	Kennesaw State U.	298	221	300	374	477	361	548	634
575	U. San Diego	240	2,686	1,046	895	1,683	499	667	621
576	St. John's U. (Collegeville, MN)	ne	ne	ne	ne	ne	ne	ne	619
577	C. Wooster	286	362	413	281 e	570	966	944	611
578	Eastern OR U.	ne	398	226	288	834	1,352	649	610
579	Mercyhurst C.	ne	ne	ne	ne	ne	819	767	609
580	Wabash C.	ne	ne	ne	454	464	265	445	606
581	Millsaps C.	ne	ne	ne	ne	150 i	471	588	589
582	Siena C.	ne	ne	ne	ne	ne	630 i	585 i	567
583	Southern Polytechnic State U.	ne	ne	ne	ne	ne	ne	300	561
584	Mills C.	ne	ne	ne	ne	ne	550 i	575 i	560 i

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
585	Kenyon C.	ne	ne	ne	ne	ne	ne	ne	558
586	Pepperdine U.	0	0	0	ne	ne	ne	ne	556
587	Providence C.	154 i	223	223 e	286	346	432	558	555
588	Ursinus C.	ne	ne	ne	ne	ne	562	472	554
589	Eastern KY U.	770	666	506	345	486	894	614	540
590	Eckerd C.	ne	ne	ne	317 i	334 i	ne	ne	540
591	Simmons C.	710	872	978	892	433	442	551	540
592	Universidad del Turabo	ne	ne	ne	ne	150 i	864	417	532
593	MA C. of Pharmacy and Health Sciences	417	392	1,043	457	574 i	691	580	526
594	National U. of Health Sciences	ne	577	620	401	165	597	580	522
595	WV School of Osteopathic Medicine	129	182	188	245	270	266	349	520
596	West Liberty State C.	ne	ne	ne	ne	ne	508	579	516
597	Muhlenberg C.	ne	ne	ne	ne	230	326	511	512
598	U. WI Platteville	226 i	281 i	336 i	391 i	447	605	540	511
599	Universidad Metropolitana	ne	ne	ne	ne	2,677 i	298	248	505
600	Cheyney U. PA	171 i	190 i	209 i	228 i	247 i	278	274	487
601	Gettysburg C.	ne	ne	ne	ne	688	454	427	469
602	Rhodes C.	279 i	280 i	281 i	282 i	286	400	432	467
603	Northeastern State U.	ne	1,314	1,283	1,035 i	786	1,031	554	458
604	Willamette U.	344	254	276	228	154	375	377	455
605	Salish Kootenai C.	ne	ne	ne	ne	ne	ne	ne	446
606	Coe C.	ne	ne	ne	ne	ne	ne	445	443
607	Fuller Theological Seminary CA	298 i	516 i	734 i	952 i	1,174	729	780	442
608	LeTourneau U.	ne	ne	ne	ne	ne	ne	405	441
609	Pacific Lutheran U.	284 i	327 i	370 i	413 i	456 i	499 i	547	440
610	SUNY C. Plattsburgh	1,118	1,061	1,494	1,224	1,823	1,985	1,190	425
611	DePauw U.	ne	ne	ne	383 i	404 i	426 i	426 i	420
612	William Paterson U. NJ	ne	ne	ne	ne	ne	ne	385 i	418
613	Universidad del Este	ne	ne	ne	ne	ne	432	407	416
614	Luther C.	ne	ne	ne	ne	ne	ne	ne	407
615	John Carroll U.	515	823	442	478	506	474	298	405
616	Roanoke C.	ne	ne	476	554	518	741	402	399
617	Jacksonville U.	ne	ne	ne	ne	ne	337	466	396
618	Denison U.	384	373	546	415	395 i	375	321	395
619	Juniata C.	171 e	283	530	898	721	289	332	384
620	Daemen C.	ne	ne	ne	ne	ne	ne	529	381
621	Manhattan C.	509 e	257	257 e	381 i	505	504	441 i	378
622	U. Scranton	3,620 i	3,873	2,599	1,528	1,369	999	600	377
623	Saginaw Valley State U.	679 i	591	442	332	350	443	680	374

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
624	Chapman U.	460	1,068	1,016	965	839	833	706	370
625	Central CT State U.	259	283	355	388	812	573	523	363
626	U. WI Whitewater	260	236	224	341	305	247	223	358
627	SUNY C. Cortland	378	353	446	392	563	487	480	355
628	Adelphi U.	137	121 i	105 i	ne	ne	151 i	183	349
629	Mercy C.	ne	ne	ne	ne	339 i	618	401	342
630	U. WI River Falls	288	332	331	345	345	434	287	340
631	U. Puget Sound	335 i	351 i	367 i	398	319	431	453	338
632	U. WI Stout	1,070	1,358	1,437	1,144	415	332	360	335
633	AR Tech U.	526	526 e	684 i	842	299	292	327 i	327 i
634	Western CT State U.	ne	ne	ne	ne	ne	ne	324	325
635	CO State U. Pueblo	753	597	628	786	663	586	151	323
636	Southeastern OK State U.	ne	ne	231	383	485	487	360	316
637	Carlos Albizu U. (San Juan, PR)	ne	ne	ne	ne	ne	497	418	310
638	AK Pacific U.	ne	43	ne	ne	ne	ne	ne	309
639	Mt. St. Mary's C. (Los Angeles, CA)	ne	ne	ne	492	570	581	515	307
640	Lawrence U.	444 i	449 i	454 i	459 i	464 i	474	301	303
641	SUNY Fredonia	224	235	271	193	175	262	318	303
642	Sarah Lawrence C.	ne	ne	ne	ne	ne	568	566	293
643	Goucher C.	121 i	122 i	123 i	ne	ne	ne	217	292
644	International American U. PR central office	ne	ne	ne	ne	ne	ne	ne	292
645	U. Houston-Downtown	837 e	1,054	661	627	329	509	175	292
646	Abilene Christian U.	319	254	231	229	233	241	269	291
647	Radford U.	665	562	294	195	ne	262	ne	290
648	Wiley C.	0	15	298	270	181	ne	ne	286
649	CUNY Medgar Evers C.	756	992	670	568	707	636	512	283
650	Vanguard U. Southern CA	ne	ne	ne	ne	ne	ne	ne	281
651	St. Mary's C. MD	251	274	335	322	459	417	415	275
652	Lake Forest C.	375	283	271	561	242	291	386	272
653	Washington and Lee U.	455 i	464 i	473 i	482 i	501	402	329	272
654	CUNY New York City C. of Technology	ne	ne	ne	ne	ne	ne	ne	267
655	Kalamazoo C.	396 i	435 i	474 i	519	422	364	239	261
656	Wilkes U.	ne	95	427	300	ne	231	300	254
657	Ft. Lewis C.	314	286	231	227	519	770	243	243 i
658	Polytechnic U. PR	ne	ne	ne	ne	ne	ne	1,127	241
659	OH Wesleyan U.	269 i	284	284 e	371 i	459	396	376	239
660	U. NC Pembroke	ne	ne	ne	ne	ne	258	329	239
661	Mayville State U.	ne	ne	ne	ne	185	243	224	224
662	Point Loma Nazarene C.	186	102	155 i	208 i	261	376	358	222

TABLE 27. R&D expenditures at universities and colleges, ranked by FY 2008 R&D expenditures: FY 2001–08

(Dollars in thousands)

Rank	Institution	2001	2002	2003	2004	2005	2006	2007	2008
663	U. WI Parkside	575	769	559	608	577	378	218	213
664	Pitzer C.	322	287	343	320	205	269	268	209
665	Mountain State U.	ne	ne	ne	ne	ne	ne	ne	204 i
666	Oglala Lakota C.	ne	ne	ne	ne	ne	ne	1,903	204
667	SUNY C. Oneonta	ne	ne	ne	ne	ne	ne	ne	198
668	Southern U. New Orleans	680	937	587	556	592	592	154	197
669	TX A&M International U.	ne	ne	ne	ne	155	ne	ne	196
670	Miles C.	ne	8,785	0	ne	ne	ne	197	194 i
671	SUNY New Paltz	ne	ne	ne	ne	ne	ne	ne	193
672	Canisius C.	248 i	284 i	320 i	356 i	392 i	434	163	186
673	Benedictine U.	ne	ne	ne	ne	ne	ne	ne	184
674	Birmingham Southern C.	ne	ne	ne	ne	ne	ne	ne	180
675	Gustavus Adolphus C.	284 i	425 i	566 i	707	487	463	173	170
676	Widener U. PA Campus	ne	ne	ne	ne	ne	ne	ne	169
677	Cooper Union	501	427	502	150	173	ne	171	161
678	Fairleigh Dickinson U. all campuses	223	190	286	ne	ne	ne	150 i	157 i
679	Loyola C.	954	1,140	454	935	1,729	1,551 i	1,373	154
	All other surveyed institutions	100,816	86,653	49,729	31,277	30,394	29,898	6,692	0

e = estimated; data were not provided by institution; prior-year data were used or current-year estimates were reported. i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. NA = not available; institution was not surveyed separately. ne = not eligible; institution did not meet the criteria for inclusion.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$845,396 in total R&D expenditures in FY 2008.

^b See Appendix A, Technical Notes, for changes in reporting between FY 2003 and FY 2004.

NOTE: Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2008.