

TABLE 27. Federally financed R&amp;D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
All institutions	13,840,177	14,314,241	15,150,456	16,101,053	17,534,849	19,223,035	21,860,110	24,734,033
1 Johns Hopkins U., The <sup>a</sup>	710,119	724,526	752,983	770,580	793,266	879,741	1,022,510	1,106,971
2 U. WA	312,695	320,784	342,291	368,112	389,622	435,103	487,059	565,602
3 U. MI all campuses	281,062	296,028	311,450	334,226	364,033	396,117	444,255	516,818
4 Stanford U.	295,373	332,272	342,426	353,947	367,083	384,468	426,620	483,540
5 U. CA, Los Angeles	236,635	215,937	234,005	251,999	274,162	312,858	366,762	421,174
6 U. PA	216,167	217,125	247,914	279,013	312,434	351,996	397,587	415,631
7 U. CA, San Diego	291,917	238,569	263,103	292,007	326,037	343,276	359,383	400,100
8 U. WI Madison	233,174	233,760	240,513	249,212	278,629	304,009	345,003	396,231
9 Columbia U. in the City of NY	195,652	212,180	229,723	240,158	283,163	317,928	356,749	385,529
10 U. CO all campuses	177,517	192,201	228,342	244,686 <sup>e</sup>	300,667 <sup>i</sup>	308,643	340,466	377,941
11 U. CA, San Francisco	221,864	206,749	219,630	233,181	248,878	277,489	327,393	371,697
12 Washington U. St. Louis	155,197	186,993	187,173	218,598	254,148	284,928	303,441	357,364
13 MA Institute of Technology	271,544	311,396	310,741	308,921	306,668	304,319	330,409	356,206
14 Harvard U.	203,047	222,612	251,876	266,019	281,699	300,414	336,607	348,620
15 U. Pittsburgh all campuses	149,960	160,833	168,511	194,618	228,155	268,571	306,913	345,625
16 Cornell U. all campuses	203,082	205,521	204,187	234,792	229,872	240,466	270,578	320,868
17 Duke U.	149,631	155,894	172,532	186,757	204,180	218,109	261,356	306,864
18 Baylor C. of Medicine	92,294	97,829	110,610	141,111	193,249	234,394	259,475	302,764
19 PA State U. all campuses	190,688	185,206	186,274	199,105	226,074	245,951	284,706	301,094
20 U. Southern CA	179,281	191,809	190,547	199,619	210,872	246,207	266,645	300,195
21 Yale U.	176,994	189,124	205,046	213,404	232,019	250,702	274,304	296,713
22 U. MN all campuses	198,927	200,149	204,741	207,761	229,958	264,289	295,301	293,266
23 U. NC Chapel Hill	157,034	153,985	171,505	182,935	194,794	221,615	254,571	280,678
24 U. IL Urbana-Champaign	145,514	156,366	171,250	185,767	193,490	195,316	214,323	266,487
25 U. AZ	154,004	152,221	161,999	178,126	187,161	199,484	211,772	259,074
26 U. AL Birmingham, The	125,804	150,501	166,830	165,223	175,309	194,625	216,221	245,217
27 U. CA, Berkeley	168,171	159,275	171,747	191,025	208,338	208,080	217,297	238,206
28 U. TX Austin	147,808	151,954	165,082	164,913	178,889	195,184	219,158	231,996
29 Emory U.	95,237	108,522	118,045	132,816	144,914	170,317	186,083	228,255
30 Vanderbilt U.	95,684	98,744	106,325	116,887	129,986	146,230	172,858	221,979
31 CA Institute of Technology	142,474	164,225	177,748	195,303	196,877	193,554	199,944	219,097
32 U. CA, Davis	130,188	104,943	114,018	124,463	141,740	154,937	176,644	208,327
33 U. Rochester	112,933	118,477	130,773	132,852	150,593	166,945	195,298	208,148
34 Case Western Reserve U.	109,901	120,992	132,274	140,178	150,586	158,852	181,888	205,452
35 Boston U.	87,946	97,522	104,428	123,390	133,730	150,771	171,438	203,947
36 GA Institute of Technology all campuses	116,155	112,544	113,643	112,861	126,164	143,836	165,680	203,582
37 U. Chicago	114,123	121,683	125,982	135,720	140,872	155,566	183,830	201,129
38 Northwestern U.	100,810	108,292	127,911	132,647	150,238	158,129	178,607	200,316
39 OH State U. all campuses	118,811	122,582	124,177	135,216	132,219	161,092	177,883	198,488

TABLE 27. Federally financed R&amp;D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
40 U. IA	105,646	108,534	115,312	122,638	140,764	155,249	180,743	197,260
41 U. FL	86,973	94,328	106,510	122,296	120,374	135,421	167,108	194,958
42 U. Cincinnati all campuses	72,543	78,292	90,307	100,325	110,296	128,049	150,166	185,261
43 U. MD College Park	99,688	102,928	129,198	145,081	136,605	145,515	194,095	183,206
44 U. TX Southwestern Medical Ctr. Dallas	81,468	89,357	97,200	101,996	109,165	131,820	155,258	177,196
45 TX A&M U. all campuses	148,675	145,066	144,938	149,151	149,639	149,382	163,488	177,119
46 U. VA all campuses	75,256	82,488	99,173	107,856	115,684	122,868	152,358	173,442
47 U. IL Chicago	58,991	70,739	73,797	86,406	101,943	125,109	143,183	168,063
48 NY U.	90,010	94,117	101,426	111,124	117,163	129,897	149,995	166,033
49 OR Health and Science U.	51,338	68,637	82,146 i	95,655 i	109,165	111,671	130,231	164,221
50 Carnegie-Mellon U.	91,830	91,527	95,046	90,408	91,191	97,463	137,967	157,583
51 IN U. all campuses	90,881	95,931	95,840	102,262	107,577	116,781	132,759	153,625
52 Mt. Sinai School of Medicine	61,599	60,914	69,995	84,624	98,188	109,344	125,979	152,719
53 U. UT	93,788	99,322	100,722	111,716	124,344	127,253	142,625	152,112
54 U. HI Manoa	66,902	72,421	86,886	93,418	95,419	97,716	110,882	143,580
55 U. CA, Irvine	72,994	64,293	66,602	75,505	88,274	101,735	115,548	133,873
56 MI State U.	77,243	82,977	81,146	89,835	97,112	112,359	122,595	133,820
57 U. Miami	96,716	101,516	101,492	101,883	106,633	111,803	121,171	130,863
58 SUNY Buffalo all campuses	87,813	78,092	76,037	85,490	96,410	96,595	121,376	129,794
59 Purdue U. all campuses	91,632	91,969	92,844	95,708	92,010	98,151	107,477	129,199
60 Yeshiva U.	73,396	77,936	80,000	89,680	101,631	107,800	114,268	128,894
61 U. MD Baltimore	65,211	72,100	78,037	84,516	91,212	99,091	117,017	126,156
62 U. TX M. D. Anderson Cancer Ctr.	42,794	49,702	63,074	69,413	81,872	94,053	117,633	122,869
63 U. KY all campuses	51,450	62,128	60,760	66,184	73,858	86,239	100,426	120,003
64 CO State U.	74,930	79,393	80,451	91,943	101,429	101,308	112,650	117,151
65 SUNY Stony Brook all campuses	79,570	86,568	91,531	93,937	96,641	93,265	108,122	112,452
66 U. CT all campuses	53,009	49,503	53,189	55,496	66,144	70,013	93,326	111,654
67 U. MA Worcester	40,198	43,350	53,766	55,516	64,212	79,453	93,992	109,082
68 Wake Forest U.	55,845	54,287	56,705	60,293	65,585	78,021	91,738	108,467
69 U. TX Health Science Ctr. Houston	61,456	67,205	70,446	71,288	79,665	88,545	98,676	107,481
70 U. NM all campuses	76,850	76,978	84,365	84,976	100,442	109,505	104,252	106,541
71 U. South FL	29,751	31,068	35,930	42,005	50,557	58,826	84,108	106,102
72 Rutgers, The State U. NJ all campuses	67,588	68,225	69,829	75,664	79,711	77,156	91,205	106,060
73 Dartmouth C.	39,682	43,154	45,053	46,741	56,369	69,844	87,255	106,034
74 U. of Medicine and Dentistry NJ	47,505	57,471	59,828	61,730	75,318	86,054	90,235	105,495
75 Princeton U.	69,386	69,667	69,005	72,974	74,681	78,620	97,724	104,011
76 Wayne State U.	46,264	53,707	57,646	57,610	64,320	79,448	95,910	102,963
77 OR State U.	79,977	80,131	82,416	81,649	80,398	84,854	91,683	100,499
78 U. TN all campuses	73,724	74,049	69,793	70,187	72,059	78,611	88,344	100,486
79 LA State U. all campuses	64,524	65,257	67,090	75,831	89,007	94,625	97,928	99,362

TABLE 27. Federally financed R&amp;D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
80 VA Polytechnic Institute and State U.	80,319	87,657	82,734	75,386	71,127	77,384	82,976	98,143
81 U. NE central administration	47,161 i	56,130 i	58,517 i	56,339 i	60,161	69,232	82,728	96,627
82 NC State U.	74,485	69,473	79,533	80,518	90,725	95,875	91,981	96,157
83 UT State U.	43,764	49,594	54,903	54,433	57,378	74,251	79,393	95,494
84 U. GA	56,254	54,364	54,712	56,080	62,678	66,913	78,086	93,884
85 U. TX Medical Branch	38,323	42,006	48,588	55,061	61,357	64,682	78,100	93,039
86 Medical U. SC	40,637	37,790	36,473	30,997	41,432	60,543	75,803	92,893
87 U. KS all campuses	41,858	46,733	50,567	57,272	68,950	74,494	82,663	90,876
88 U. CA, Santa Barbara	73,400	64,915	68,680	74,026	80,754	76,828	78,370	88,422
89 FL State U.	39,527	52,945	50,451	55,666	56,830	57,075	70,456	87,985
90 U. TX Health Science Ctr. San Antonio	51,203	53,478	51,954	56,904	65,251	71,153	83,761	86,683
91 Thomas Jefferson U.	51,475	49,091	51,728	56,369	67,448	64,881	79,217	85,348
92 Woods Hole Oceanographic Institution	61,820	66,386	64,765	59,534	67,036	75,670	78,458	84,410
93 U. MO-Columbia	38,938	43,335	45,448	53,875	65,420	68,435	77,742	84,211
94 Georgetown U.	81,704	84,198	84,801	83,972	98,836	93,626	87,087	83,745
95 Medical C. WI	34,527	39,364	43,831	47,087	55,034	64,003	76,241	83,026
96 IA State U.	54,904	52,938	51,196	54,179	59,976	62,024	71,419	82,297
97 Tulane U.	49,720	49,708	52,924	50,779	52,080	55,669	64,824	82,118
98 Brown U.	42,139	43,664	44,412	45,276	49,943	58,367	68,215	81,445
99 VA Commonwealth U.	45,454	44,982	48,167	48,175	52,137	57,315	65,028	81,201
100 MS State U.	34,637	34,928	42,004	46,528	53,808	65,493	77,521	79,837
101 Tufts U.	53,508	55,421	61,167	62,836	64,677	71,669	73,236	78,942
102 SUNY Albany	48,395	41,190	33,894	46,242	62,059	46,671	40,497	76,038
103 NM State U. all campuses	53,552	57,165	56,587	56,875	57,073	61,124	70,314	75,368
104 U. OK all campuses	42,679	45,756	54,451	57,589	60,542	60,264	69,388	75,318
105 Rockefeller U.	37,369	43,979	43,845	45,010	45,211	55,362	67,559	75,303
106 U. AK Fairbanks all campuses	30,351	28,127	31,505	34,647	46,605	55,287	66,169	72,607
107 AZ State U. main campus	38,947	37,700	41,359	53,905	49,935	56,616	64,407	71,741
108 U. VT	31,521	34,042	31,460	36,085	39,861	48,810	58,280	70,832
109 WA State U.	48,807	45,030	44,510	44,610	48,441	48,660	61,138	70,653
110 U. DE	29,509	32,031	33,688	34,628	37,716	41,830	48,183	69,493
111 George Washington U.	30,490	34,182	45,072	49,944	49,627	51,757	58,729	68,959
112 U. SC all campuses	51,269	37,005	42,586	48,490	51,872	51,983	53,403	63,044
113 Clemson U.	28,109	28,092	28,199	27,064	31,304	48,560	47,174	62,552
114 U. MS all campuses	15,571	15,696	16,463	19,053 i	28,107	39,451 i	50,795 i	62,140
115 U. MA Amherst	37,969	40,925	43,196	39,877	44,712	49,576	54,770	60,839
116 WV U.	30,800	29,443	24,985	26,264	28,013	29,440	49,394	60,586
117 U. NH	23,305	24,128	25,913	30,586	38,921	45,223	50,829	59,463
118 Naval Postgraduate School	29,873	31,618	33,308	33,308 e	39,596 i	45,884 i	52,172 i	58,463
119 KS State U.	24,769	25,781	27,001	28,102	31,185	33,998	43,988	53,313

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120 MT State U. Bozeman	17,667	19,707	23,982	26,231	30,564	34,857	39,986	53,283
121 U. RI	34,829 i	35,733	33,308	36,207	38,538	43,161	45,453	51,942
122 Temple U.	28,720	26,374	28,793	29,734	38,213	41,643	44,577	51,309
123 Rush U.	22,480	24,382	28,444	31,119	32,573	37,301	44,756	49,834
124 Drexel U.	11,613	10,545	10,929	12,914	14,292	20,159	30,232	49,271
125 U. NV, Reno	20,971	20,813	20,383	24,587	26,267	31,386	39,958	47,756
126 U. Central FL	18,714	13,361	13,502	16,048	13,801	22,342	29,929	47,749
127 U. Dayton	34,413	36,196	36,329	30,755	31,717	34,102	40,191	47,327
128 Auburn U. all campuses	31,401	27,412	27,706	27,058	31,515	40,097	42,432	45,374
129 Rice U.	33,238	37,935	34,772	35,012	35,144	35,682	39,739	43,706
130 U. ID	16,481	17,416 i	18,352	24,263	23,014	26,548	33,465	42,861
131 U. AR for Medical Sciences	16,796	19,249	21,857	26,392	29,962	34,219	27,491	41,681
132 U. of Notre Dame	18,886	19,173	23,053	23,614	27,362	29,801	33,285	41,220
133 FL International U.	13,415	13,828	14,243	15,757	20,296	23,940	32,057	40,860
134 U. CA, Riverside	27,727	24,006	22,999	19,994	21,085	25,713	32,305	40,409
135 U. Louisville	13,306	13,521	15,067	15,536	17,713	25,116	38,978	39,924
136 Charles R. Drew U. of Medicine and Science	15,288	16,052 e	16,052 e	22,212	21,969	27,415	39,259	39,407
137 George Mason U.	16,430	14,652	17,268	19,492	20,669	25,992	31,890	38,510
138 U. CA, Santa Cruz	31,727	24,005	29,881	25,084	25,959	29,201	32,901	38,213
139 ND State U. all campuses	11,683	6,432	9,787	12,308	15,463	15,207	21,414	37,940
140 OK State U. all campuses	25,034	21,455	23,220	23,179	24,770	25,636	31,100	37,748
141 St. Louis U. all campuses	21,483	23,218	23,341	23,722	26,453	28,117	31,215	36,989
142 Howard U.	26,253	25,884	21,501	21,658	25,292	27,848	33,949	36,137
143 U. OR	26,411	26,020	27,041	27,336	30,793	32,232	37,177	36,127
144 U. AL Huntsville, The	26,141	21,731	23,772	25,166	25,939	30,625	35,660	35,558
145 Syracuse U. all campuses	18,361	23,780 i	29,200	30,050	29,620	30,036	32,704	34,559
146 U. MD Baltimore County	8,135	9,816	12,618	15,624	20,244	23,695	29,376	34,164
147 Brandeis U.	23,233	25,233	28,098	29,423	26,444	30,031	29,006	33,722
148 U. Houston	25,448	21,695	22,018	20,443	21,365	21,876	31,455	32,556
149 U. NV, Las Vegas	11,142	9,221	9,713	10,248	13,815	15,681	22,367	32,511
150 Rensselaer Polytechnic Institute	24,748	22,785	21,774	22,803	25,555	25,894	26,490	32,295
151 TX Tech U.	13,013	14,901	17,481	20,242	21,480	22,967	28,202	31,776
152 U. Southern MS	7,587	7,766	9,536	14,124	15,084	18,061	22,398	31,653
153 NJ Institute of Technology	20,561	21,287	21,127	21,127	17,381	23,274	27,550	30,535
154 AL A&M U.	8,249 i	8,423 e	10,518	8,558	7,056	8,883 i	10,710	30,343
155 SUNY Health Science Ctr. Brooklyn	18,685 i	18,996	18,318	21,053	22,860	22,860 e	25,495 i	29,127 i
156 U. ME	16,211	15,066	13,028	19,163	24,412	23,873	23,732	28,901
157 U. ND all campuses	23,976	17,775	13,404	13,615	13,880	15,743	25,004	28,336
158 Medical C. GA	11,338	11,904	13,127	13,991	15,210	21,116	23,317	28,280
159 Loyola U. Chicago	16,831	14,771	17,685	17,588	20,695	26,474	27,678	28,107

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160 San Diego State U.	17,181	20,237	19,721	19,724	22,802	23,621	25,223	28,084
161 U. MT, The	11,591	11,554	11,748	14,627	18,378	19,194	22,612	27,220
162 U. AR main campus	16,019	15,772	16,156	15,851	20,778	23,172	27,588	27,071
163 Northeastern U.	14,706	16,321	21,454	22,776	26,916	23,532	24,295	26,895
164 TX A&M U. System Health Science Ctr.	NA	NA	NA	NA	14,321	18,384	22,417	26,729
165 U. AL, The	12,238	13,118	14,909	17,601	19,486	22,183	26,900	26,241
166 U. PR Medical Sciences Campus	12,191	12,978	11,843	13,971	16,657	19,433	23,931	25,845
167 Jackson State U.	4,702	3,960	5,326	7,925	10,690	22,750	21,721	25,607
168 Morehouse School of Medicine	11,747	12,099	12,461	12,948	15,419	18,127	21,919	24,382
169 Meharry Medical C.	11,004	11,004 e	11,004 e	9,192	9,192 e	14,822 i	20,453	24,195
170 NY Medical C.	11,657	11,866	13,639	14,029	17,975	18,344	19,318	23,387
171 Desert Research Institute	14,600	13,900	15,400	16,552	19,923	22,018	22,760	23,265
172 U. WY	14,991	15,003	17,806	19,109	16,556	20,017	20,017 e	23,186
173 Boston C.	11,137	11,207	12,778	14,492	16,673	20,123	22,827	22,907
174 Loma Linda U.	5,878	8,061	7,834	12,217	18,811	19,462 i	20,114	22,675
175 GA State U.	5,818	7,544	11,284	14,310	12,090	13,575	18,967	22,218
176 C. of William and Mary all campuses	13,020	10,911	11,097	11,892	13,031	15,288	18,007	21,992
177 OH U. all campuses	8,046	9,790	10,323	10,544	11,695	12,898	17,677	20,406
178 San Jose State U.	11,825 i	11,825 i	11,825 e	11,825 e	11,825 e	14,301	15,777	18,935
179 Old Dominion U.	9,266	10,736	12,346	13,706	14,908	15,280	17,170	18,882
180 Catholic U. America, The	5,901	6,910	7,161	11,064	7,680	13,308	17,925	18,864
181 Wright State U. all campuses	9,502	10,001	10,832	12,365	12,543	15,417	16,070	18,733
182 Hampton U.	3,854	7,777	6,801	7,168	8,994	8,377	10,058	18,417
183 FL A&M U.	20,118	22,547	15,726	20,693	16,278	22,477	21,592	18,273
184 U. MO-Rolla	7,542	8,080	7,934	8,731	9,804	11,929	15,749	18,142
185 U. TX El Paso	10,471	12,873	10,758	18,292	16,416	16,167	16,457	18,116
186 U. MD Biotechnology Institute	7,529	8,719	11,789	13,911	11,157	11,053	10,603	17,922
187 MI Technological U.	12,603	12,941	13,938	16,107	16,650	17,620	17,973	17,667
188 U. South AL	9,747	9,709	9,451	9,451 e	8,276	8,276 e	15,922	17,638
189 FL Atlantic U.	6,500	7,653	9,582	11,036	12,359	14,099	15,566	17,517
190 CUNY Hunter C.	6,083	6,895	6,414	7,526	8,650	10,922	14,573	17,047
191 SUNY Upstate Medical U.	6,764	7,188	6,487	7,889	8,461	8,815	13,404	16,652
192 Brigham Young U. all campuses	8,752 e	9,223 i	9,694	11,414	10,378	11,659	12,900	16,564
193 CO School of Mines	9,534	9,330	8,694	10,704	11,995	12,314	13,230	16,314
194 Lehigh U.	22,409	14,882	13,019	13,161	12,726	13,961	13,519	16,215
195 U. MA Lowell	10,257	11,560	12,259	10,354	9,905	11,196	14,932	15,821
196 NM Institute of Mining and Technology	7,205	10,496	8,959	10,719	8,652	13,255	18,864	15,434
197 Eastern VA Medical School	10,203	10,618	9,449	11,354	12,114	11,389	13,077	15,431
198 U. Memphis, The	4,954	5,413	5,849	6,364	11,177	11,012	14,072	14,985
199 U. TX Dallas	5,583	6,719	8,115	7,700	7,049	7,049 e	11,624	14,530

TABLE 27. Federally financed R&amp;D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
200 U. LA Lafayette	2,936	4,699	5,834	9,430	12,164	12,130	12,925	14,455
201 U. MO-Kansas City	5,087	5,380	6,199	7,206	7,490	8,176	10,795	14,232
202 Medical C. OH	9,559	9,766	8,107	9,219	9,944	11,362	12,006	14,146
203 IL Institute of Technology	11,183	11,668	9,946	9,777	10,926	10,917	11,277	13,900
204 U. WI Milwaukee	8,026	8,156	8,936	9,190	8,425	11,089	11,461	13,704
205 CUNY City C.	16,169	15,221	14,437	12,393	13,059	13,022	13,319	13,456
206 Portland State U.	5,675	5,960	6,881	9,313	11,217	11,341	11,914	13,276
207 Marshall U. Graduate C.	234	180	25	66	5,618	5,980	9,502	12,802
208 U. MD Ctr. for Environmental Science	5,998	6,240	7,440	8,116	10,805	12,105	13,080	12,654
209 U.S. Air Force Academy	3,201 i	3,616 i	4,033	3,699	4,505	5,009	8,163	12,599
210 Clark Atlanta U.	25,345	25,943	24,079	12,116	16,170	14,354	15,325	12,367
211 NC Agricultural and Technical State U.	12,521	13,362	12,924	12,454	11,187	11,937	11,953	12,226
212 Western MI U.	3,336	3,618	4,023	4,165	4,584	6,192	9,913	12,131
213 CA State U. Long Beach	5,013	5,013 e	8,471 i	11,929	12,964	2,910	4,944	12,126
214 Southern IL U. Carbondale	8,836	8,632	7,801	7,660	10,130	10,868	10,789	12,078
215 Rochester Institute of Technology	2,545	2,523	2,339 e	2,690	2,664	5,612	7,868	11,630
216 SD State U.	5,500	5,650	5,812	6,086	7,448	8,456	9,115	11,441
217 U. Toledo	3,506 e	2,937	5,366	5,682	6,312	6,701	8,996	10,928
218 Northern AZ U.	6,938	8,176	6,812	7,111	7,842	9,616	10,873	10,900
219 U. of the VI	2,428	2,428 e	2,428 e	1,957	1,957 e	6,288 i	10,620	10,772
220 Wichita State U.	2,196	2,602	2,646	3,260	5,228	5,726	6,687	10,619
221 TN State U.	7,983	7,569	7,978	8,522	8,873	10,210	11,218	10,280
222 U. TX San Antonio	4,111	11,553	5,112	5,463	7,441	8,012	7,111	9,982
223 U. North TX Health Science Ctr. Ft. Worth	4,847	5,273	5,645	5,370	5,799	6,562	7,770	9,927
224 Albany Medical C.	6,691	5,632	6,545	7,437	7,691	8,562	8,901	9,677
225 U. PR Mayaguez Campus	19,568	21,052	21,903	23,784	11,837	9,015	8,865	9,596
226 Uniformed Services U. of the Health Sciences	24,621	9,218	7,547	9,696	11,023	10,105	10,294	9,527
227 Creighton U.	5,046	5,129	4,096	4,929	5,541	7,275	6,594	9,413
228 U. Akron all campuses	4,793	5,146	4,042	7,140	7,081	8,672	9,537	9,348
229 Kent State U. all campuses	7,729	7,577	8,251	8,212	7,736	8,158	9,427	9,278
230 U. West FL	1,908 i	2,356 i	2,806	3,624	4,521	4,785	5,315	9,105
231 Stevens Institute of Technology	9,222	6,174	6,667	7,084	8,785	8,094	8,094 e	9,070 i
232 Southern U. and A&M C. all campuses	7,724	7,774	6,983	6,689	6,418	7,059 i	7,903 i	9,029 i
233 SUNY Binghamton	5,661	6,218	6,205	5,761	6,319	6,392	8,959	8,981
234 U. NC Wilmington	4,326 i	4,212 i	4,098	4,431	5,336	7,242	9,950	8,957
235 U. MA Dartmouth	3,433	2,884	3,731	3,983	3,228	4,928	7,142	8,718
236 U. Tulsa	5,104	4,190	4,002	5,272	5,498	7,341	6,806	8,439
237 U. SD	2,350	2,239	2,669	3,373	2,084	3,534	5,830	8,308
238 U. Denver	7,415	7,888	9,385	9,081	7,439	9,248	8,386	8,268
239 SD School of Mines and Technology	3,278	2,990	3,221	3,300	4,127	4,417	6,950	8,222

TABLE 27. Federally financed R&amp;D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
240 Mercer U. all campuses	10,832	10,741	12,043	12,657	11,350	9,076	8,607	8,018
241 U. NC Charlotte	3,411 i	3,779 i	4,150	4,780	5,380	5,145	5,850	7,981
242 Prairie View A&M U.	10,325	9,315	9,612	8,675	7,679	7,094	7,712	7,886
243 U. TX Arlington	14,804	26,829	11,294	6,089	5,106	9,413	7,848	7,884
244 U. AR Little Rock	NA	NA	NA	NA	3,400 e	2,088	2,088 e	7,757
245 Tuskegee U.	8,231	29,930	26,894	6,942	6,694	7,259	7,703	7,660
246 Alcorn State U.	3,365	4,242 i	5,119	5,223	8,034	7,370	5,809	7,582
247 East Carolina U.	4,079	3,904	4,027	4,832	4,388	5,188	6,030	7,565
248 Universidad Central del Caribe	2,353	2,072	3,208 i	4,345	5,347	6,622	6,470	7,183
249 VA State U.	2,735	3,453	2,792	2,061	3,602	4,246	6,895	6,964
250 Northern IL U.	4,809	3,460	3,344	3,727	3,603	4,264	4,980	6,892
251 CA State U. Los Angeles	1,806 i	1,359 i	912 i	463	8,344	5,365	7,728	6,882
252 Finch U. of Health Sciences/Chicago Medical School	5,209	5,022	5,022 e	4,860	5,117	6,256	5,638	6,783
253 U. PR Rio Piedras Campus	3,866	4,275	5,460	5,654	5,620	6,013	4,971	6,760
254 ID State U.	2,054	1,128	5,200	1,258	3,723	3,837	4,738	6,746
255 CA State U. Northridge	1,439 i	1,374 i	1,309	2,324	3,182	3,182 e	6,786	6,460
256 Air Force Institute of Technology	2,291	4,212	2,228	1,540	5,371	1,671	2,609	6,418
257 KY State U.	2,761	2,139	703	703 e	2,179 i	3,655	6,036	6,395
258 Boise State U.	1,875	1,932	1,892	2,595	2,151	3,962	4,173	6,321
259 U. North TX	3,492	3,703	2,621	2,617	3,618	5,401	6,015	6,320
260 Ponce School of Medicine	4,212	2,607	2,783 i	2,960	3,257	3,736	3,720	6,270
261 Morgan State U.	3,691 i	3,825 i	3,960	1,066	4,371	2,390	1,674	6,232
262 LA Tech U.	1,395 i	1,840 i	2,287	2,287 e	2,635	2,242	3,487	6,113
263 San Francisco State U.	3,799 i	3,744 i	3,689 i	3,630 e	4,561 e	4,561 e	13	6,089
264 Worcester Polytechnic Institute	6,967	7,315	5,230	4,292	4,219	4,506	5,013	5,966
265 Southern Methodist U.	6,007	4,543	4,836	6,387	6,302	5,587	6,026	5,940
266 U. GU	2,076 i	2,141 i	2,206	2,242	3,165	3,355	4,183	5,818
267 Tarleton State U.	911	1,177	1,483	1,623	1,426	4,094	5,216	5,698
268 U. MA Boston	2,706	3,075	3,160	2,951	3,378	2,546	4,837	5,579
269 Teachers C. Columbia U.	262	560	2,900	4,119	5,613	5,617	5,939	5,572
270 Polytechnic U.	6,329	3,485	2,843	4,595	8,200	4,063	4,918	5,511 i
271 FL Institute of Technology	2,980	2,292	2,152	2,735	2,980	2,614	3,646	5,204
272 SUNY C. of Environmental Science and Forestry	3,021	2,690	2,715	3,874	4,332	4,355	4,630	5,177
273 U. HI Hilo	NA	NA	NA	NA	NA	NA	8,499	5,082
274 CUNY Queens C.	1,365	1,637	2,323	1,884	2,604	3,484	5,516	5,062
275 Xavier U. LA	5,106	5,473	5,355	3,240	3,174	4,666	6,019	5,036
276 U. MO-St. Louis	3,349	3,650	3,975	4,841	4,523	4,321	4,755	4,978
277 CA State U. San Bernardino	198 i	228 i	258	697	880	676	1,399	4,858
278 Clarkson U.	3,794	3,368	3,010	3,694	3,837	4,286	4,286 e	4,833
279 East TN State U.	738	714	1,368	1,400	2,768	3,572	3,908	4,642

TABLE 27. Federally financed R&amp;D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
280 TX A&M U. Corpus Christi	NA	NA	NA	NA	1,363	2,357	3,127	4,581
281 MT Tech of the U. MT	2,275 i	2,521 i	2,767 i	3,014	2,744	2,617	2,977	4,488
282 Clark U.	1,756	2,134	1,660	2,651	1,652	2,605	3,418	4,475
283 Oakland U.	3,222	3,303	3,218	3,033	3,033 e	5,318	4,903	4,470
284 Wesleyan U.	3,889	3,731	3,570	3,640	4,058	3,893	3,734	4,424
285 Marquette U.	2,270	2,421	3,510	3,416	3,085	3,309	3,565	4,409
286 Norfolk State U.	2,187	1,388	2,442	2,970	3,273	3,952	4,902	4,404
287 Bowling Green State U. all campuses	2,391 i	2,436	2,029	1,847	1,847 e	2,395	2,829	4,378
288 Langston U.	2,521	1,828	2,031	2,340	2,553	2,863	3,975	4,332
289 Miami U. all campuses	2,633	2,876	2,687	3,302	2,674	3,324	4,021	4,312
290 Villanova U.	1,390	1,471	2,470 i	3,470	4,035	4,293 i	4,551 e	4,229 i
291 U. LA Monroe	1,573	2,308	1,466	2,824	2,824 e	3,106 i	3,540 i	4,044 i
292 Wellesley C.	2,533	2,304	2,304 e	2,684 i	3,064 i	3,446	3,446 e	3,996
293 U. AK Anchorage all campuses	0 i	0 i	0 e	2,537	2,537 e	3,390 i	4,244 e	3,929
294 CA State Polytechnic U. Pomona	993 i	1,018 i	1,043 i	1,069	1,703	2,498	2,806	3,922
295 Southwest TX State U.	1,530 i	1,323 i	1,116	1,871	3,519	3,854	4,144	3,873
296 CA State Polytechnic U. San Luis Obispo	2,658 i	3,301 i	3,948	7,673	7,605	6,153	5,968	3,820
297 Rowan U.	NA	NA	NA	NA	NA	NA	NA	3,755
298 CUNY Herbert H. Lehman C.	891	927 e	1,071 i	1,216	1,444	2,048	2,816	3,725
299 DE State U.	1,787	1,833	2,734	2,055	3,052	2,222	2,819	3,636
300 Cleveland State U.	3,522 i	3,588 e	3,696 e	3,655 e	3,318	3,986	4,649	3,611
301 Humboldt State U.	1,822 i	2,003 i	2,185	2,629	2,629 e	2,945 i	3,354 i	3,553 i
302 CA State U. Dominguez Hills	2,226 i	2,794 i	3,362 i	3,932	909	2,578	2,783	3,471
303 U. AR Pine Bluff	2,747	2,838	2,911	2,911 e	2,754 i	2,596	3,016	3,470
304 Embry-Riddle Aeronautical U.	1,506 i	1,470 i	1,432	1,432 e	1,551 e	6,987	4,174	3,323
305 Institute of Paper Science and Technology	3,043 i	3,746 e	3,746 e	3,398 e	3,398 e	2,947	2,947 e	3,303 i
306 U.S. Naval Academy	3,777 i	3,156 i	2,534	2,234	2,770	3,140	2,324	3,169
307 CA State U. Fullerton	1,028 i	1,028 i	1,028 e	1,879 i	2,730 i	3,581 i	4,434	3,140
308 Western KY U.	2,083 i	2,606 i	3,130	2,287	2,711	3,294	3,493	3,125
309 Fisk U.	1,969	1,969 e	2,909	2,846	2,652	2,577	3,030	3,000
310 TX Southern U.	3,474	3,707	2,504	2,292	1,844	1,908	3,910	2,925
311 U. North FL	NA	NA	NA	NA	NA	731	1,397	2,915
312 CUNY Brooklyn C.	1,408	1,492	1,574 e	2,228	2,866	2,776	2,538	2,798
313 Ft. Valley State U.	2,338	2,471	2,359	2,318	2,417	2,417 e	2,985	2,798
314 U. DC	1,756	1,756 e	1,898	1,829	1,629	2,008	2,963	2,769
315 TX A&M U. Kingsville	1,532 i	1,703 i	1,874	1,771	2,179	1,828	1,956	2,766
316 DePaul U.	842	926	822	571	478	1,142	1,971	2,747
317 Duquesne U.	618	711	867	1,531	1,902	1,969	2,232	2,742
318 Sam Houston State U.	4,495	4,974	2,527	3,225	2,128	1,802	2,386	2,726 i
319 TX Christian U.	2,159	2,541	2,493	3,257	2,441	2,824	2,492	2,716



TABLE 27. Federally financed R&amp;D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
320 U. NC Greensboro	1,730	1,581	1,829	1,535	1,535 e	2,803	3,340	2,704
321 C. Charleston	1,240 i	1,481 i	1,724	1,553	1,607	1,988	2,364	2,678
322 West TX A&M U.	76 i	93 i	114	93	140	2,681	3,245	2,595
323 CA State U. Fresno	1,199 i	1,382 i	1,565 i	1,749 e	1,823	585	1,392	2,579
324 Maharishi U. of Management	0	0	0	0	1,213	1,213	2,618	2,541
325 SUNY C. of Optometry	327	268	386	755	698	993	1,032	2,461
326 U. Scranton	1,898 i	2,200 i	2,502 i	2,804 i	3,106 i	3,408 i	3,715	2,439
327 Savannah State U.	317	316	331 i	513	905	2,181	2,206	2,337 i
328 Western WA U.	1,619 i	1,782 i	1,954	2,004	1,548	1,300	1,651	2,271
329 NM Highlands U.	2,345	2,446 i	2,547 i	2,648	3,747	1,849	1,953	2,264
330 Central WA U.	813 i	934 i	1,055 i	1,179	1,426	1,337	1,468	2,246
331 Bowie State U.	49	2,672	4,403	2,360	2,360 e	2,022	2,200	2,206
332 SC State U.	1,910	1,948	1,968	1,978	1,988	1,988 e	1,998	2,198
333 Spelman C.	988	1,282	1,700	1,832	1,978	3,262	2,968	2,186
334 Lincoln U. (Jefferson City, MO)	2,681	2,584	2,635 i	2,686	2,502	2,236	2,513	2,149
335 American U.	2,864	2,672	3,163	2,735	1,886	1,999	3,467	2,141
336 CA State U. Monterey Bay	NA	NA	NA	NA	NA	1,285	1,285 e	2,091
337 GA Southern U.	805 i	814 i	823 i	833	944	841	882	2,074
338 Albany State U.	675 e	675 e	1,019	1,019 e	840	740	1,640	2,056
339 Winston-Salem State U.	1,246	1,874	1,898	1,619	3,216	4,853	2,022	2,022 e
340 Lamar U.	1,451	1,169	2,307	2,914	2,330	2,217	2,080	1,998
341 Nova Southeastern U.	861	1,003	1,500	2,637	2,060	1,750	1,959	1,963
342 Gallaudet U.	2,449 i	2,284 i	2,119	2,264	1,682	1,768	1,880	1,959
343 Christopher Newport U.	NA	NA	NA	NA	NA	NA	NA	1,945
344 Ball State U.	1,459	1,329	959	835	873	1,177	1,590	1,944
345 IL State U.	2,110	2,420	2,468 e	2,057	2,108	1,638	1,574	1,928
346 New England C. of Optometry	437	715	1,020	1,118	950	1,179	1,792	1,900
347 U. TX-Pan American	1,121 i	1,176 i	1,233	1,068	1,135	1,288	1,387	1,887
348 Grambling State U.	1,450	2,630	1,936	1,936 e	2,200	2,200 e	1,977	1,880
349 Eastern MI U.	651 i	732 i	813 i	895	1,213	1,745	777	1,849
350 Fordham U.	1,421	1,472	769	1,725	2,101	1,980	1,990	1,823
351 U. Redlands	NA	NA	NA	NA	NA	NA	2,674	1,810
352 CUNY York C.	903	1,271	1,480	1,372	1,317	923	1,650	1,796
353 Ithaca C.	693 i	882 i	1,075	1,607	2,131	1,653	2,060	1,792
354 U. Central AR	NA	NA	NA	NA	820	1,189	1,140	1,790
355 St. Joseph's U.	330 i	395 i	462	185	797	1,130	2,069	1,771
356 CUNY Graduate Ctr.	3,077 i	3,445	3,573	515	532	1,489	832	1,724
357 CUNY C. Staten Island	557	559	739	595	858	1,128	1,315	1,723
358 Northeastern OH Universities C. of Medicine	1,068	1,530	1,430	1,693	2,002	2,072	1,871	1,708
359 Mt. Holyoke C.	663 i	696 i	733	975	1,135	1,004	1,449	1,639

TABLE 27. Federally financed R&amp;D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
360 James Madison U.	617 i	669 i	722	763	712	890	1,372	1,607
361 U. Northern CO	470	702	609 e	526	982	994	840	1,581
362 TN Technological U.	1,250	1,205	1,065	1,222	1,452	1,124	1,695	1,539
363 Morehouse C.	591	591 e	591 e	1,843	1,843 e	1,843 i	1,843 i	1,517 i
364 Middle TN State U.	119	107	127	319	478	296	211	1,513
365 TX Woman's U.	1,006	1,304	1,485	1,306	1,440	1,185	1,321	1,494
366 Southern CT State U.	184 i	156 i	128 i	100	215	215 e	144	1,485
367 Long Island U. all campuses	14	700	1,197	1,116	1,044	919	1,162	1,470
368 Williams C.	1,010 i	1,010 i	1,010 e	1,345	1,345 e	1,367 i	1,389	1,454
369 AL State U.	970	787	1,133	1,190	1,190 e	1,249 e	1,249	1,449
370 Carleton C.	366 i	376 i	386 i	398	760	693	959	1,417
371 U. New Haven	272	188 i	104 i	19	19 e	1,492	1,492 e	1,386 i
372 Barnard C.	678	685 e	1,038	1,008	1,198	1,269	1,021	1,369
373 CA State U. Chico	107	1,090	1,497	850	450	961	617	1,356
374 Southern IL U. Edwardsville	275 i	261 i	244	147	200	311	1,413	1,340
375 Occidental C.	1,513 i	1,513 i	1,513 e	297	545	812	1,303	1,319
376 Bucknell U.	483 i	547 i	611 i	679	754	1,106	1,240	1,285
377 Lafayette C.	289 i	291 i	295	354	331	353	519	1,253
378 Harvey Mudd C.	691 i	804 i	917 i	1,032	1,032 e	1,156 i	1,316 i	1,223 i
379 Pomona C.	410 i	395 i	376	654	678	679	917	1,219
380 PA C. of Optometry	383 i	351 i	319 i	283	525	695	928	1,209
381 St. John's U. (Jamaica, NY)	1,227	1,230	916	1,177	938	938 e	1,060 i	1,188 i
382 SUNY C. Old Westbury	510	743	767	485	1,067	1,067 e	1,193	1,182
383 U.S. Coast Guard Academy	304 i	302 i	300	300	405	466	1,128	1,166
384 U. of the Pacific	860	1,755	254	844	546	489	730	1,160
385 U. WI Stout	881	774	986	782	880	816	1,003	1,156
386 Middlebury C.	622 i	643 i	664 i	688	1,371	1,285	1,150	1,150 e
387 SUNY C. Oswego	551	459	480	478	587	578	901	1,120
388 Hampshire C.	964 i	1,155	1,264	662	872	998	1,095	1,112
389 Chicago State U.	739	738	696	1,254	1,248	1,356	1,236	1,107
390 Elizabeth City State U.	753	1,146	575	1,040	1,558	1,248	1,058	1,103
391 CA State U. Hayward	642 i	856 i	1,070 i	1,284 i	1,498 i	1,712 i	1,930	1,088
392 SUNY C. Plattsburgh	740	692	802	432	610	712	760	1,087
393 Murray State U.	362	422	554	388	629	778	739	1,075
394 Bowdoin C.	388	137	213	154	228	140	658	1,070
395 SUNY C. Buffalo	1,786	1,207	1,054	1,167	577	338	583	1,053
396 Morehead State U.	352 i	451 i	550 i	649 i	748 i	847 i	946 i	1,046
397 Northeastern State U.	NA	NA	NA	NA	NA	NA	919	1,038
398 Shaw U.	115	122	110	100	100 e	411 i	722 i	1,033
399 NC Central U.	804 i	795 i	786 i	777 e	761 i	853 i	971 i	1,029 i

TABLE 27. Federally financed R&amp;D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
400 Benedict C.	634 i	634 i	800 i	966 i	1,143	1,014	966	1,002
401 Bradley U.	407 i	519 i	632	218	146	286	953	973
402 U. WI La Crosse	748	510	562	686	1,001	871	1,196	967
403 Bates C.	387	306	411	576	463	819	977	964
404 Amherst C.	934 i	899 i	861	726	999	849	955	955 e
405 OR Institute of Technology	NA	NA	NA	NA	NA	NA	727	953
406 Haverford C.	635	933	820	937	1,000	989	874	931
407 Swarthmore C.	661	511	586	586 e	586 e	691	1,107	915
408 Towson U.	148	170	268	1,028	846	694	1,037	904
409 U. Northern IA	712	588	496	344	378	380	1,063	898
410 Rose-Hulman Institute of Technology	438 i	540 i	642 i	748	420	1,457	744	892
411 Bryn Mawr C.	1,039	871	910	764	978	855	751	880
412 Smith C.	695 i	730	634	240	774	812	515	866
413 Claremont Graduate U.	256	259	123	384	798	1,024	621	859
414 Furman U.	475	533	315	208	524	487	1,003	852
415 Hamilton C. (Clinton, NY)	359 i	359 i	359 e	414 i	469	382	1,035	849
416 SUNY C. Geneseo	251	218	229	183	389	350	481	847
417 U. WI Eau Claire	242	325	395	338	219	288	580	827
418 U. WI Green Bay	215	238	238	240	267	328	601	824
419 Pacific U.	0	0	0	0	20	157	157	823
420 Youngstown State U.	339 i	422 i	508	144	191	425	800	821
421 Baylor U.	433	615	522	522 e	353	516	830	812
422 U. Richmond	464	588	781	812	849	815	1,347	807
423 Santa Clara U.	450 i	479 i	506 i	533 i	574 i	625 i	706 i	791 i
424 Pittsburg State U.	30	69	229	94	247	514	963	781
425 Coastal Carolina U.	NA	NA	NA	NA	1,051	736	787	776
426 Stephen F. Austin State U.	1,684	2,285	1,125	776	521	959	1,054	759
427 Macalester C.	344 i	417 i	490 i	563 i	636 i	713	1,057	755
428 Bethune Cookman C.	333	472	566	583	586	926	794	741
429 New School U.	748 i	814	773	1,069	873	1,083	1,083 e	741
430 Augsburg C.	492 i	430 i	368 i	303	337	497	655	734
431 U. WI Stevens Point	629	413	306	257	193	270	639	725
432 U. WI Superior	619	169	96	97	33	79	552	720
433 Lincoln U. (Lincoln University, PA)	1,135	949	1,364	972	709	620	718	704
434 St. Cloud State U.	669 i	827 i	987	987 e	987 e	892 i	797 i	700
435 Drake U.	179 i	175 i	171 i	167	198	163	692	692 e
436 Alfred U. all campuses	600	445	1,348	1,491	1,227	1,166	946	674
437 U. Hartford	41	27	124	299	629	578	537	667
438 CUNY Medgar Evers C.	NA	NA	NA	NA	258	714	970	652
439 Colgate U.	NA	NA	NA	NA	917	708	586	646

TABLE 27. Federally financed R&amp;D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
440 MS Valley State U.	586	563	350	495	834	1,316	1,030	636
441 Trinity U.	777 i	750 i	723 i	692	746	746 e	250	636
442 Hope C.	697 i	756 i	815 i	879	602	692	853	635
443 Seton Hall U.	1,228 i	1,243 e	1,243	1,116	996	826	692	635
444 Dickinson C.	NA	NA	1,168	653	390	806	685	624
445 U. San Diego	167	157	334	282	422	185	1,425	622
446 SUNY C. Brockport	288	264	349	308	344	344 e	478 i	613
447 U. Southern CO	959	616	538	642	370	707	541	580
448 St. Olaf C.	299 i	339 i	379 i	424	530	403	683	575
449 IN State U. all campuses	532	669	592	368	251	269	284	573
450 Whitman C.	108 i	84 i	58	181	283	322	211	568
451 Kettering U.	162 i	176 i	192	89	270	270	638	562
452 MA C. of Pharmacy and Health Sciences	0	0	0	0 e	64 i	129	77	562
453 Milwaukee School of Engineering	130 i	170 i	211	269	306	420	651	558
454 Southeastern LA U.	311 i	389 i	467 i	550	629	342	525	556
455 Southern U. New Orleans	NA	NA	NA	NA	60 e	652	902	556
456 State U. West GA	408 i	531 i	654 i	777 i	900	634	400	556
457 CA State U. Bakersfield	192 i	159 i	126 i	92 e	459	459 e	523 i	554 i
458 Fayetteville State U.	503 i	139	378	265	507	298	311	546
459 Southern OR U.	200 i	241	230	205	253	154	542	544
460 Loyola Marymount U.	NA	NA	NA	NA	NA	NA	NA	538
461 Franklin and Marshall C.	647 i	684 i	723	348	604	599	441	529
462 Midwestern U. (Chicago, IL)	613	756	491	443	467	542	589	529
463 U. AK Southeast all campuses	226 i	300 i	374 i	448 i	522 i	596 i	673 e	525
464 U. WI Oshkosh	119	199	268	307	248	271	356	523
465 Calvin C.	283 i	290 i	297 i	306	270	514	338	522
466 U. Houston-Clear Lake	2,924 i	2,095 i	1,266	5,387	6,383	10,629	7,460	514
467 Evergreen State C.	393 i	428 i	463 i	498 i	537	487	441	511
468 West Chester U. PA	271	148	462	547	697	697 e	918	505
469 Indiana U. PA all campuses	520	491	491 e	354	544	453	476	504
470 Kirksville C. of Osteopathic Medicine	482	381	329	311	542	731	895	494
471 Appalachian State U.	303	244	247	219	128	280	543	491
472 C. NJ, The	NA	NA	NA	NA	NA	NA	456	483 i
473 Reed C.	343 i	329 i	315 i	300 e	391	277	583	472
474 Union C. (Schenectady, NY)	610	343	126	608	553	587	1,217	471
475 U. San Francisco	343 i	296 i	249 i	200 e	400	400 e	431 i	462
476 Hofstra U.	192	319	319	659	649	402	402 e	450 i
477 VA Union U.	NA	NA	537	537 e	537 i	537 i	537 i	442 i
478 Dillard U.	314	164	164 e	164	182	199	393	441
479 McNeese State U.	131 e	25	256	611	512	290	409	430

TABLE 27. Federally financed R&amp;D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
480 U. of Health Sciences	180	162	305	305 e	0	380	513	429
481 U. WI Parkside	112	132	119	108	212	352	563	427
482 Trinity C. (Hartford, CT)	409 i	448 i	487 i	529	326	326 e	181	426
483 Oberlin C.	456 i	513 i	570 i	627 i	691	285	406	424
484 Montclair State U.	98 i	109 i	120 i	131 i	146	465	383	406 i
485 Lewis and Clark C.	234 i	271 i	309	394	392	206	272	394
486 Roanoke C.	NA	NA	NA	NA	NA	NA	NA	388
487 AR State U. main campus	102 i	125 i	152	224	267	321	312	385
488 Skidmore C.	42 i	56 i	74	61	67	68	227	384
489 Denison U.	179 i	192 i	205 i	221	238	121	183	381
490 Western IL U.	9,016	8,804	10,867	6,595	6,112	5,501	4,982	379
491 Albany C. of Pharmacy	NA	NA	NA	NA	839	806	572	377
492 U. Houston-Downtown	870 i	860 i	850 i	838	660	660 e	596	373
493 Southwest MO State U.	482 i	539 i	596	484	484 e	443	79	371
494 Allegheny C.	255 i	254 i	253 i	252	88	412	562	368
495 Oakwood C.	371	716	690	447	447 e	447 i	447 i	368 i
496 Eastern WA U.	804 i	804 i	804 e	1,244	1,366	1,668	986	365
497 Juniata C.	77 i	95 i	113 i	135	105	107 e	101	363
498 National U. of Health Sciences	NA	NA	NA	NA	NA	NA	402	362
499 Pace U. all campuses	0	0	555	435	236	295	362	362 e
500 U. IL Springfield	NA	NA	NA	NA	182	126	200	362
501 Spalding U.	0	0	176	0	441	331	359	359 e
502 Philadelphia C. of Osteopathic Medicine	91	95	57	99	392	395	387	358
503 C. Wooster	172 i	153	244	318	276	249	284	342
504 Chapman U.	30 i	40 i	50 i	60 i	73	77	442	340
505 Vassar C.	517 i	517 i	517 e	419 i	321	321 e	366 i	340 i
506 SUNY C. Cortland	246	235	26	30	233	276	316	335
507 Tougaloo C.	867 i	929	657	767	473	407	407 i	335 i
508 John Carroll U.	701 i	824 i	947 i	1,072	1,072 e	232	489	334
509 Loyola C.	981	833	1,191	1,397	1,513	675	770	330
510 NJ City U.	NA	NA	NA	NA	NA	NA	184	326
511 Grinnell C.	117 i	117 i	117 e	210	774	168	385	325
512 Central MI U.	213	107 i	0	142	142 e	291	190	318
513 St. Mary's C. MD	NA	NA	NA	NA	378	233	262	318
514 Central State U.	1,162 i	1,153 i	1,144	1,144 e	283 e	283 i	283 i	304 i
515 Simmons C.	233 i	194 i	155 i	112	74	30	118	302
516 Kennesaw State U.	111	141	132	142	249	298	221	300
517 Eastern KY U.	3,889 i	5,059 i	6,229 i	7,403	192	235	225	297
518 Claffin U.	474	1,074	1,028	250	250 e	1,958	203	293
519 Central CT State U.	95 i	104 i	113 i	122 i	137	138	102	282

TABLE 27. Federally financed R&amp;D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
520 Morris Brown C.	2,422	525	525 e	321 i	116	116 e	343	282 i
521 SUNY Purchase C.	161	211	160	188	139	145 i	151	282
522 Grand Valley State U.	30	42	92	309	368	392	405	278
523 C. of the Holy Cross	1,245	265	251	151	142	446	329	272
524 U. NC Asheville	250 i	238 i	226 i	213	227	386	412	271
525 Valparaiso U.	231 i	200	259	500	275	308	262	267
526 Pitzer C.	182	164	197	246	299	261	227	266
527 Wiley C.	NA	NA	0	0	0	0	0	263
528 Manhattan C.	519 i	424 i	327	70	293	293 e	257	257 e
529 Fairfield U.	147 i	161 i	175 i	189 i	203	160	106	246
530 Northern KY U.	160 i	132 i	104 i	71	41	34 i	26	240
531 Augustana C. (Sioux Falls, SD)	278 i	277 i	276 i	275 i	274 i	273 i	265	224
532 Iona C.	127	145	149 i	153 i	157 i	161 i	167	222
533 Wilkes U.	NA	NA	NA	NA	NA	NA	79	221
534 Western Carolina U.	95	218	277	300	354	362	280	218
535 CUNY Baruch C.	41	15	83 i	151	87	87 e	347	213
536 Sonoma State U.	NA	NA	145	16	33	597	161	213
537 U. WI Whitewater	233	171	145	106	223	255	210	204
538 OH Wesleyan U.	444	340	106	185	185 e	194 i	203	203 e
539 St. Mary's U. (San Antonio, TX)	108 i	56 i	0	0	62	193	152	199
540 Colby C.	88 i	90 i	93	121	83	146	306	192
541 Ft. Lewis C.	204	323	149	157	139	231	221	191
542 Rider U.	NA	NA	NA	NA	225	189	218	185
543 Bridgewater State C.	299 i	239 i	179 i	114	287	64	196	174
544 Providence C.	39	20	17	29	29 e	101 i	173	173 e
545 Abilene Christian U.	186 i	176 i	162	114	165	162	173	172
546 SUNY C. Fredonia	144	100	93	52	120	121	104	172
547 CUNY John Jay C. of Criminal Justice	579	565	912	951	779	733	201	168
548 U. Southern ME	299 i	268 i	236	123	123 e	138 i	157 i	166 i
549 Lawrence Technological U.	48 i	49 i	51	57	121	194	191	159
550 U. Detroit Mercy	950	877	494	310	314	219	369	158
551 Truman State U.	125	223	156	156 e	127 i	98 i	68	156
552 Hartwick C.	92 i	100 i	108 i	116 i	124 i	132 i	140 i	151
553 U. of St. Thomas (St. Paul, MN)	141 i	148 i	158	19	54 i	89	160	151
554 AR Tech U.	49 i	51 i	55	137	92	130	130 e	140 i
555 Radford U.	NA	NA	103	115	444	492	357	136
556 Willamette U.	NA	NA	137	29	77	69	87	136
557 U. Portland	119	127	55	105	235	291	285	133
558 Lake Forest C.	15 i	20 i	28	74	200	220	126	132
559 New C. FL	NA	NA	NA	NA	NA	NA	55	130

TABLE 27. Federally financed R&amp;D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
560 Western U. of Health Sciences	115	40	253	253 e	127 i	0	214	129
561 Adelphi U.	221	329	80	130	73	101	114 i	128 i
562 Eastern OR U.	NA	NA	NA	NA	NA	NA	243	126
563 Southeastern OK State U.	NA	NA	NA	NA	NA	NA	NA	122
564 U. of the Sciences Philadelphia	342	269	162	162 e	222	200	311	119
565 U. Findlay, The	NA	NA	NA	NA	275	0	100	115
566 Augustana C. (Rock Island, IL)	42 i	42 i	42 e	55 i	68 i	81 i	94 i	108
567 Jarvis Christian C.	102	83	55	56	55	55 e	10	100
568 Salem International U.	NA	NA	271	247	239	106	106 e	98 i
569 Sul Ross State U.	137	148	156	74	228	95	77	96
570 MN State U. Mankato	298 i	335 i	372	164	175	165	181	95
571 NY Institute of Technology all campuses	30	28	38	92	114	166	84	94 i
572 Fairleigh Dickinson U. all campuses	35 i	17	7	7	24	98	98	85
573 Andrews U.	252	106	117	117 e	87	145	123	82
574 Wilberforce U.	323	236	236 e	205 i	174 i	143 i	112 i	80
575 Des Moines U. Osteopathic Medical Ctr.	0	0	2	309	134	164	164 e	78
576 CO C.	96 i	101 i	106	47	145	136	143	74
577 Talladega C.	0	0	0 i	0	0	0	0	71
578 Ferris State U.	NA	NA	49	0	0 e	62	62 e	70 i
579 U. Central OK	66 i	66 i	65	121	9	245	250	58
580 Nicholls State U.	NA	NA	NA	NA	14	0	59	57
581 U. WI River Falls	55	71	69	69	24	81	89	51
582 La Salle U.	302	192	136	229	0	236	0	45
583 TX A&M U. Commerce	80	55	122	109	157	83	37	43
584 Widener U. all campuses	0	0	0	70	37	37 e	42 i	39 i
585 Bluefield State C.	NA	NA	0	0	0	0	0	36
586 VA Military Institute	240	175	67	92	50	24	10	32
587 Northeastern IL U.	62	110	68	18	24	47	47	26
588 Pontifical Catholic U. PR, The	20 e	64	78	96	85	89	54	19
589 Saginaw Valley State U.	727 i	635 i	543 i	451 i	359 i	267 i	174	19
590 Western State C. CO	45 i	43 i	37	20	28	5	17	17 e
591 U. Dallas	34	36	441	157	0	26	30	15
592 Alliant International U.	NA	NA	NA	NA	NA	378	214	5
Antioch U. all campuses	0	0	0	0	0	0	0	0
Azusa Pacific U.	NA	NA	NA	NA	0 e	0	0	0
Bennett C.	93 i	93 e	583	583 e	438 i	293 i	148 i	0
Biola U.	0	0	0	0	0	0	0	0
CA Institute of Integral Studies	0	0	0	0	0	0	0	0
CA State U. Sacramento	NA	NA	NA	NA	NA	NA	NA	0 i
CT C.	65 i	34 i	0 e	0 i	0 i	0 i	0 i	0 i

TABLE 27. Federally financed R&D expenditures at universities and colleges, ranked by FY 2003 expenditures: FY 1996–2003

(Dollars in thousands)

Institution and ranking	1996	1997	1998	1999	2000	2001	2002	2003
Cooper Union	50 i	50 i	50 e	34	94	27	0	0
Coppin State C.	116	15	6	11	0	0	0	0
East Stroudsburg U. PA	289 i	352 i	415 i	480	271	147	0	0
Forest Institute of Professional Psychology	0	0	0	0	0	0	0	0
Golden Gate U.	0	0	0	0	0	0	0	0
Gonzaga U.	NA	NA	NA	NA	NA	NA	NA	0
Institute of Textile Technology	0	0	0	0	0	0	0	0 e
Johnson C. Smith U.	1,083	1,546	4,299	8,659	250	195	0	0
Le Moyne-Owen C.	NA	NA	1,404	1,031	1,700	1,250	0	0 i
Miles C.	NA	NA	NA	NA	NA	NA	7,943	0
Morris C.	NA	NA	NA	NA	NA	NA	NA	0
Pepperdine U.	0	0	0	0	0	0	0	0
Philander Smith C.	73	73	73 e	72	72 e	0	0	0
Rust C.	0	0	317	114	138	0	0	0
Selma U.	250	210	210 e	116	0	0 e	0	0
Union Institute & U.	0	0 i	0	0	0	0 e	0	0
U. MD Eastern Shore	1,980	2,187	2,265	2,508	3,895	5,626	0	0
U. MO system administration	0	0	0	0	0	0	0	0
WV School of Osteopathic Medicine	0	0	0	0	0	0	0	0
WV State C.	10	196	0	0	0 e	0 e	0 i	0 i
All other sampled institutions	45,604	68,881	83,098	39,146	45,617	37,679	27,007	0

e = estimated.

i = imputed.

NA = not available.

<sup>a</sup> The Johns Hopkins University includes the Applied Physics Laboratory, with \$582 million in federally financed R&D expenditures.

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 2003.