

UNIVERSITY OF COLORADO SYSTEM

Boulder • Colorado Springs • Denver and Health Sciences Center

Office of the Vice President for Academic Affairs and Research

University of Colorado 2005 Sponsored Research Report

Prepared by the University of Colorado System Office of Information & Analysis

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Report Highlights

Section I: Fiscal Year 2005 Sponsored Research Awards

- CU's sponsored research awards more than doubled between 1995 and 2005, increasing from \$310.6 million to \$630.3 million.
- Federal funding represented more than 73% of all research funding in 2005.
- From 2000 to 2005, sponsored research funding at each CU campus either increased or remained fairly constant:
 - Research funding at the Boulder campus increased from \$214.2 million to \$257.6 million (20%).
 - Research funding at the Colorado Springs campus increased from \$3.0 million to \$8.7 million (190%).
 - Research funding at the Downtown Denver campus was at similar levels in 2000 (\$18.7 million) and 2005 (\$18.6 million).
 - Research funding at the Health Sciences Center increased from \$224.0 million to \$345.4 million (54%).

Section II: Fiscal Year 2004 Research and Development Expenditures

- Over the last three years, National Science Foundation rankings have placed CU among the top 15 public institutions in total research expenditures and among the top 6 in federal research expenditures.
- CU has consistently been ranked among the top 10 public institutions based on research expenditures in the physical sciences and environmental sciences. CU also ranks among the top 10 public institutions in attracting federal funding in the psychology discipline.

Section III: Fiscal 2003 CU Systemwide R&D Expenditures as reported and ranked by the National Science Foundation (NSF)

- Based on NSF data from 1998 to 2003, CU experienced the sixth largest five-year increase in federal research expenditures (66%) among the top 20 public and private institutions.
- NSF rankings place CU 6th among public institutions in terms of 2003 federal research expenditures. Rankings for specific disciplines include:
 - 3rd - Physical Sciences
 - 3rd - Environmental Sciences
 - 5th - Psychology
 - 10th - Life Sciences
 - 11th - Social Sciences
 - 26th - Engineering
 - 26th - Math and Computer Sciences

Section I

Fiscal Year 2005 Sponsored Research Awards

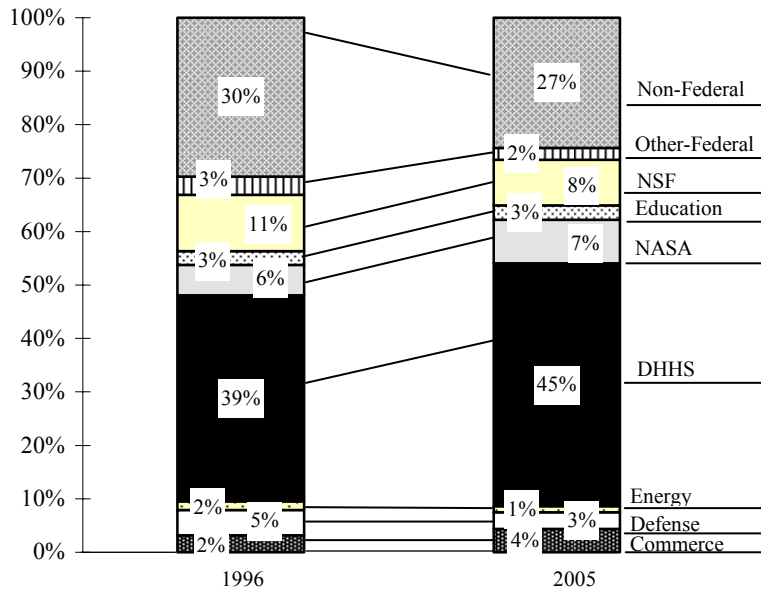
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Table 1.1 University of Colorado System Sponsored Research Awards by Source
 [In Millions of Dollars]

Agency	Dollars Awarded		% of Total Dollars		Dollar % Change
	1996	2005	1996	2005	
Commerce	\$9.2	\$26.5	1.5%	4.2%	188%
Veterans Administration		\$4.7		0.7%	
Defense	\$13.9	\$17.0	4.8%	2.7%	22%
Energy	\$4.8	\$7.0	1.6%	1.1%	46%
Health & Human Services	\$112.8	\$282.0	38.6%	44.7%	150%
NASA	\$16.7	\$44.5	5.7%	7.1%	166%
Education	\$7.5	\$16.0	2.6%	2.5%	113%
National Science Foundation	\$30.8	\$51.7	10.5%	8.2%	68%
Other Federal	\$9.9	\$11.7	3.4%	1.9%	18%
Non-Federal	\$87.0	\$169.2	29.7%	26.8%	94%
System Totals	\$292.6	\$630.3	100.0%	100.0%	115%

Figure 1.1 Awards by Source as a Percentage of Total Awards, 1996 and 2005



**Table 1.2 University of Colorado System Sponsored Research Awards
FY 1995 - FY 2005**

Awards Granted (reported in millions of dollars)

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	10-Yr % Change
Boulder	\$153.6	\$134.4	\$174.2	\$181.7	\$204.3	\$214.2	\$219.0	\$229.0	\$250.4	\$259.7	\$257.6	67.7%
Colorado Springs	\$1.9	\$2.1	\$2.2	\$2.2	\$2.3	\$3.0	\$2.7	\$1.9	\$5.2	\$6.2	\$8.7	357.9%
Downtown Denver	\$11.8	\$12.2	\$12.6	\$16.1	\$18.5	\$18.7	\$16.7	\$20.3	\$19.2	\$22.7	\$18.6	57.6%
Health Sciences	\$143.3	\$143.8	\$154.3	\$166.9	\$195.3	\$223.9	\$260.0	\$294.6	\$286.1	\$299.8	\$345.4	141.0%
TOTAL	\$310.6	\$292.5	\$343.3	\$366.9	\$420.4	\$459.9	\$498.6	\$545.8	\$560.9	\$588.4	\$630.3	102.9%

Awards Granted by Funding Source (reported in millions of dollars)

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	10-Yr % Change
Federal	\$235.3	\$205.5	\$256.2	\$266.7	\$309.9	\$341.7	\$366.6	\$405.0	\$436.4	\$446.1	\$461.0	95.9%
Nonfederal	\$75.3	\$87.0	\$87.1	\$100.0	\$110.4	\$118.2	\$132.0	\$140.8	\$124.5	\$142.4	\$169.3	124.8%
TOTAL	\$310.6	\$292.5	\$343.3	\$366.7	\$420.3	\$459.9	\$498.6	\$545.8	\$560.9	\$588.4	\$630.3	102.9%

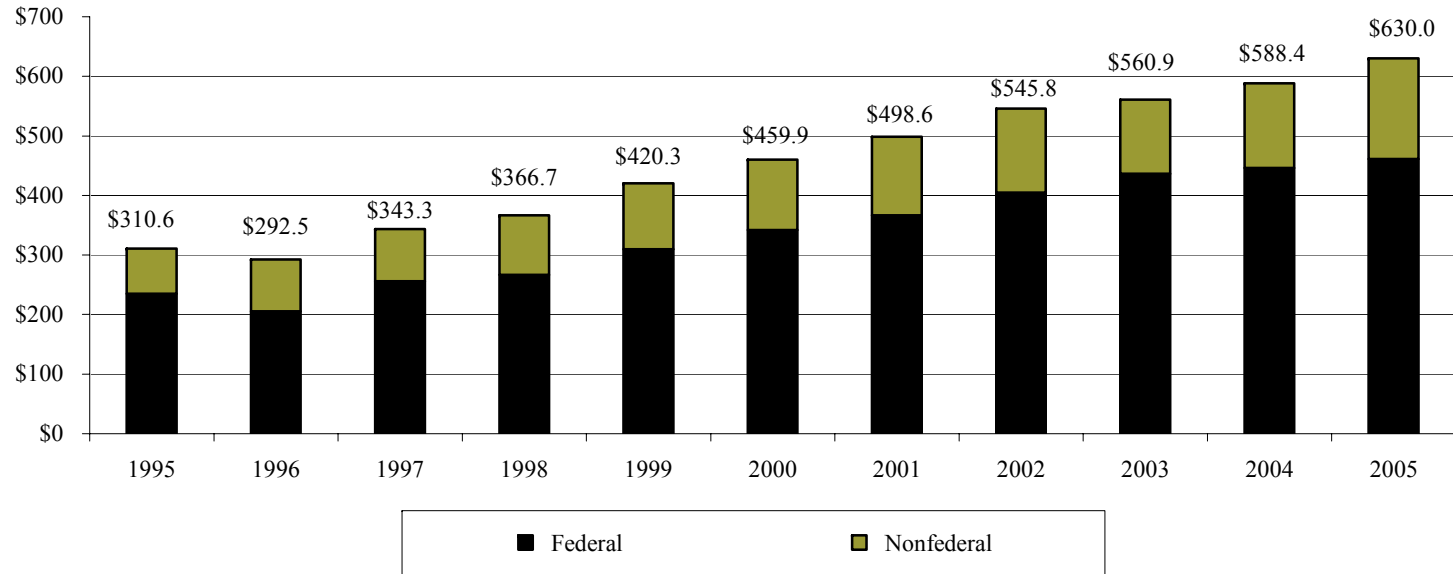
Actual Number of Awards Granted

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	10-Yr % Change
CU-System	2,672	2,741	2,869	2,957	3,071	3,085	3,308	3,360	3,495	3,416	3,528	32.0%

Average Dollars per Award

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	10-Yr % Change
CU-System	\$116,243	\$106,713	\$119,658	\$124,011	\$136,861	\$149,076	\$150,726	\$162,440	\$160,487	\$172,248	\$178,656	53.7%

Figure 1.2 University of Colorado System Total Sponsored Research Awards
(In Millions of Dollars)



**Table 1.3 University of Colorado at Boulder
6-Year History of Sponsored Research Awards**

Academic Unit	2000	2001	2002	2003	2004	2005	% Change
	\$ Amt	\$ Amt	\$ Amt	\$ Amt	\$ Amt	\$ Amt	
College of Arts & Sciences							
College of A&S Administration	\$26,750	\$58,508	\$51,982	\$22,938	\$29,975	\$7,575	12%
Applied Math Program	\$1,652,216	\$1,545,852	\$2,202,255	\$1,805,912	\$1,762,501	\$1,674,566	7%
Anthropology	\$185,146	\$47,165	\$145,017	\$36,495	\$128,636	\$247,619	-31%
Art and Art History	\$26,900	\$10,000	\$54,100	\$25,000			
Astro-physic, Planetary, Atmospheric Science	\$0	\$44,000	\$0	\$76,000	\$40,500	\$84,345	
APS - CASA	\$8,199,778	\$8,605,837	\$6,997,454	\$10,646,910	\$6,059,411	\$4,958,176	-26%
Center of the American West		\$77,000		\$11,500	\$10,000	\$0	
Ethnic Studies	\$42,000		\$17,942			\$0	
Chemistry & Biochemistry	\$10,936,113	\$10,548,958	\$10,502,829	\$12,241,926	\$16,225,198	\$12,675,717	48%
Classics		\$38,255				\$30,000	
Center for Ad. Research Training				\$98,170	\$531,406	\$236,913	
Communication	\$3,125	\$7,875	\$20,500	\$24,324	\$62,000	\$63,199	1884%
Fiske Planetarium				\$23,000	\$11,000	\$42,011	
Ecology & Evolutionary Biology	\$1,119,427	\$2,051,733	\$1,939,341	\$3,082,292	\$1,967,973	\$1,413,940	76%
CO Shakespeare Festival		\$10,000	\$32,300			\$0	
East Asian Languages & Civilizations	\$132,500	\$1,518,300	\$1,992,035	\$1,472,295	\$2,467,717	\$1,303,010	1762%
Economics	\$254,981	\$93,973	\$169,929	\$256,220	\$401,059	\$176,494	57%
English		\$30,000		\$55,953	\$40,000	\$98,531	
French and Italian					\$4,872	\$40,000	
Geography	\$194,922	\$1,335,999	\$471,446	\$679,172	\$679,714	\$364,122	249%
Geological Sciences	\$1,416,456	\$1,808,528	\$1,014,128	\$1,235,921	\$1,280,835	\$1,040,539	-10%
German/Slavic/French Languages	\$25,000		\$43,233			\$0	-100%
History	\$106,960	\$44,000	\$22,000	\$22,000	\$166,500	\$172,099	56%
Honors	\$0	\$5,000	\$0		\$11,070	0	
Integrative Physiology	\$2,317,198	\$2,806,303	\$4,167,046	\$3,243,124	\$6,611,768	\$4,627,958	185%
Linguistics	\$31,885	\$95,533	\$980,538	\$881,610	\$222,750	\$561,162	599%
Mathematics	\$307,391	\$204,916	\$323,351	\$295,664	\$144,117	\$109,071	-53%
MCD Biology	\$9,576,371	\$13,423,372	\$9,949,656	\$15,240,130	\$16,170,965	\$11,091,640	69%
Center for Plasma Studies	\$887,981	\$1,174,093	\$1,399,938	\$1,839,998	\$1,282,614	\$1,279,811	44%
Spanish/Portuguese		\$5,000				\$0	
Philosophy		\$58,648		\$6,922	\$114,547	\$0	
Comparative Literature				\$50,000		\$0	

CU Art Museum					\$7,730	\$0	
Physics	\$6,928,434	\$7,024,769	\$7,991,894	\$7,697,412	\$8,078,837	\$8,190,715	17%
Political Science	\$72,030	\$218,200	\$124,735	\$81,719	\$8,400	\$130,000	-88%
Program Atmospheric/Oceanic Science	\$2,906,504	\$3,333,189	\$3,506,350	\$1,489,801	\$803,946	\$610,221	-72%
Psychology	\$3,135,223	\$4,141,235	\$5,331,298	\$6,115,365	\$8,040,311	\$8,672,752	156%
Religious Studies			\$47,840		\$7,000	\$0	
Sociology	\$763,039	\$779,229	\$221,618	\$159,118	\$19,147	\$0	-97%
Speech/Language/Hearing Science	\$2,736,241	\$1,588,708	\$1,524,997	\$2,792,971	\$2,488,469	\$1,962,541	-9%
Theatre and Dance	\$16,000	\$0	\$10,000	\$0	\$7,500	\$24,000	-53%
Women's Studies		\$12,657	\$45,000				
College of Arts & Sciences	\$54,000,571	\$62,746,835	\$61,300,752	\$71,709,862	\$75,888,468	\$61,888,727	41%
College of Engineering & Applied Science							
Aerospace Engineering	\$3,613,702	\$3,278,789	\$3,338,895	\$2,487,696	\$2,477,683	\$2,454,743	-31%
AE-Bioserve Space Technology	\$4,641,580	\$3,351,090	\$2,718,755	\$1,512,626	\$4,258,614	\$3,021,906	-8%
AE-Center for Aerospace Structures	\$3,159,367	\$2,101,201	\$1,606,745	\$3,644,481	\$3,478,506	\$1,402,945	10%
AE-CO Center Astrodynamic Research	\$2,113,880	\$2,893,984	\$2,228,023	\$3,380,697	\$4,377,143	\$4,230,543	107%
AE-NASA specialized	\$0						
Aerospace Total	\$13,528,529	\$11,625,064	\$9,892,418	\$11,025,500	\$14,591,946	\$11,110,137	8%
Chemical Engineering	\$3,193,051	\$2,600,485	\$4,317,546	\$6,372,034	\$6,136,462	\$6,424,894	92%
CE-CO Institute BioTech Research	\$160,488	\$168,292				\$0	
CE-Colorado RNA Center	\$182,989	\$183,200				\$0	
CE-Center Membrane Technology	\$315,528	\$419,638	\$590,126	\$474,084	\$280,739	\$1,235,988	-11%
CE-Center for Low Gravity Fluid						\$0	
Chemical Total	\$3,852,056	\$3,371,615	\$4,907,672	\$6,846,118	\$6,417,201	\$7,660,882	67%
Civil, Environmental, Architectural Engineering	\$3,028,603	\$5,664,176	\$4,548,142	\$4,062,139	\$3,975,565	\$2,859,677	31%
CE&A, Water & Environmental Decisions	\$883,000	\$1,111,599	\$1,664,984	\$1,127,599	\$1,706,367	\$1,746,199	93%
CE&A-Joint Center Engineering	\$139,964						
CE&A Total	\$4,051,567	\$6,775,775	\$6,213,126	\$5,189,738	\$5,681,932	\$4,605,876	40%
Computer Science	\$2,276,541	\$4,541,673	\$7,301,924	\$5,790,865	\$4,720,827	\$5,162,224	107%
Electrical & Computer Engineering	\$3,254,754	\$2,965,605	\$2,520,866	\$1,510,146	\$2,282,379	\$3,986,653	-30%
E&C - Optoelectronic	\$2,283,169	\$2,924,268	\$1,922,847	\$1,216,084	\$2,452,000	\$693,011	7%
E&C Total	\$5,537,923	\$5,889,873	\$4,443,713	\$2,726,230	\$4,734,379	\$4,679,664	-15%
Mechanical Engineering	\$743,079	\$1,323,464	\$2,383,114	\$2,240,512	\$3,030,779	\$3,638,616	308%
ME-Center Manufacturing/Package	\$1,939,518	\$1,551,346	\$1,327,957	\$1,193,352	\$510,363	\$391,362	-74%
ME-Center Combustion Research	\$115,929	\$213,397	\$238,172	\$261,791	\$429,261	\$89,941	270%
Mechanical Total	\$2,798,526	\$3,088,207	\$3,949,243	\$3,695,655	\$3,970,403	\$4,119,919	42%

College of Engineering Admin	\$91,333	\$271,695	\$56,000	\$64,000	\$35,000	\$19,000	-62%
ITLL	\$1,213,151	\$752,010	\$739,611	\$797,958	\$634,403	\$502,590	-48%
Interdisciplinary Telecom. Program	\$494,282	\$425,795	\$255,991	\$446,337	\$590,058	\$120,000	19%
BP Center for Visualization			\$120,000	\$179,975	\$554,896	\$363,975	
CO Space Grant College Cons	\$1,150,181	\$1,151,630	\$831,000	\$746,807	\$872,559	\$746,969	-24%
College of Engineering Total	\$34,994,089	\$37,893,337	\$38,710,698	\$37,509,183	\$42,803,604	\$39,091,236	22%
Graduate School & Research Institutes							
Graduate School	\$1,187,299	\$1,555,326	\$3,223,045	\$2,977,099	\$3,564,249	\$1,882,819	200%
Museum	\$324,370	\$51,465	\$590,686	\$556,926	\$435,857	\$1,009,328	34%
Center-Limb Atmospheric Sounding	\$5,381,000	\$2,598,900	\$3,492,425	\$6,155,250	\$3,976,000	\$5,380,748	-26%
Center Humanities and the Arts	\$10,000	\$10,000	\$13,400	\$10,000	\$10,000	\$0	0%
Coop Inst. Research in Environ	\$30,661,734	\$27,882,972	\$35,978,716	\$39,276,732	\$40,274,272	\$41,040,700	31%
Inst. Behavioral Genetics	\$7,557,783	\$10,083,876	\$9,963,505	\$10,590,359	\$11,738,638	\$10,925,336	55%
INSTAAR	\$3,913,689	\$8,261,804	\$5,543,000	\$5,084,304	\$6,319,738	\$5,095,592	61%
Institute of Behavioral Sciences	\$6,395,507	\$10,541,003	\$10,374,881	\$5,784,815	\$5,078,080	\$5,707,771	-21%
Institute of Cognitive Science	\$3,336,710	\$2,756,962	\$4,399,116	\$4,865,586	\$4,274,322	\$6,159,007	28%
JILA	\$16,033,159	\$18,168,442	\$16,049,326	\$18,987,532	\$13,765,277	\$17,507,277	-14%
LASP	\$41,986,298	\$25,987,525	\$24,311,139	\$32,607,103	\$41,372,440	\$49,453,649	-1%
Graduate School Total	\$116,787,549	\$107,898,275	\$113,939,239	\$126,895,706	\$130,808,873	\$144,162,227	12%
Other Schools/Colleges and Campus Units							
Academic Affairs	\$312,134	\$624,428	\$1,860,939	\$321,237	\$1,150,882	\$828,059	269%
ATLAS		\$2,334,336	\$389,790	\$1,727,001	\$424,498	\$2,279,018	
Student Affairs	\$2,008,815	\$1,810,949	\$3,261,285	\$4,087,105	\$2,713,719	\$3,487,533	35%
Administration	\$44,054	\$26,690	\$3,100	\$150,000	\$12,000	\$107,500	-73%
Planning/Budget & Analysis	\$43,833	\$0	\$15,750	\$15,750		\$0	
Leeds School of Business	\$2,114,541	\$1,883,983	\$2,784,947	\$2,230,366	\$1,692,494	\$1,075,600	-20%
Music	\$182,705	\$2,000	\$2,600			\$0	
School of Education	\$3,689,964	\$3,002,454	\$6,688,035	\$5,378,035	\$3,808,121	\$4,438,989	3%
School of Journalism & Mass Communication		\$756,589	\$20,823	\$192,847	\$277,999	\$236,561	
School of Law	\$16,300	\$57,400	\$40,000		\$8,633	\$0	-47%
Library	\$26,600	\$9,826	\$23,632	\$11,000	\$96,430	\$1,545	263%
Continuing Education				\$180,180	\$3,000	\$3,000	
College of Architecture and Planning				\$27,838			
Other Schools/Colleges and Campus Units Total	\$8,438,946	\$10,508,655	\$15,090,901	\$14,321,359	\$10,187,776	\$12,457,805	21%
Campus Totals	214,221,155	219,047,102	229,041,590	250,436,110	259,688,721	257,599,995	21%

**Table 1.4 University of Colorado at Colorado Springs
5-Year History of Sponsored Research Awards**

Academic Unit	2001	2002	2003	2004	2005	% Change
	\$ Amt	\$ Amt	\$ Amt	\$ Amt	\$ Amt	
Office of the Vice Chancellor for Academic Affairs			\$2,594,547	\$3,195,560	\$3,143,034	
Office of the Vice Chancellor for Student Success			\$207,052	\$118,768	\$39,487	
College of Business	\$64,860		\$121,500	\$222,874	\$60,800	-6%
College of Engineering & Applied Science	\$1,161,347	\$654,793	\$173,622	\$337,687	\$1,973,567	70%
College of Letters, Arts & Sciences	\$1,393,416	\$1,191,035	\$1,513,321	\$1,094,663	\$2,210,118	59%
College of Education	\$104,138	\$16,500	\$569,106	\$1,066,246	\$1,120,027	976%
Theatre	\$20,000					
Library		\$3,096				
Beth-El College of Nursing	\$45,709	\$40,000	\$61,693	\$218,263	\$158,456	247%
Campus Totals	\$2,789,470	\$1,905,424	\$5,240,841	\$6,254,061	\$8,705,490	212%

**Table 1.5 University of Colorado at Denver and Health Sciences, Downtown Denver Campus
6-Year History of Sponsored Research Awards**

Academic Unit	2000	2001	2002	2003	2004	2005	% Change
	\$ Amt	\$ Amt	\$ Amt	\$ Amt	\$ Amt	\$ Amt	
College of Architecture & Planning	\$145,609	\$228,807	\$184,611	\$110,484	\$401,431	\$691,338	375%
College of Arts & Media	\$8,000		\$309,010	\$0	\$0	\$50,000	525%
The Business School	\$104,000	\$66,071	\$754,539	\$104,843	\$3,464,148	\$793,528	663%
School of Education	\$6,813,098	\$4,636,493	\$6,114,229	\$6,656,807	\$9,496,460	\$4,650,286	-32%
College of Engineering & Applied Science	\$998,551	\$1,071,855	\$1,646,290	\$709,473	\$1,295,613	\$952,261	-5%
College of Liberal Arts & Sciences	\$2,518,342	\$2,133,486	\$3,214,339	\$4,200,729	\$2,602,766	\$4,417,341	75%
Graduate School of Public Affairs	\$1,380,377	\$2,194,445	\$1,771,148	\$2,289,277	\$1,203,801	\$1,179,496	-15%
Academic/Student Affairs/Chancellor's Office	\$6,768,228	\$6,284,392	\$6,309,751	\$5,033,402	\$4,234,256	\$5,757,133	-15%
Financial Services	\$0	\$0	\$0	\$0	\$0	\$68,893	
Library	\$0	\$60,625	\$11,514	\$0	\$0	\$4,616	
Campus Totals	\$18,736,205	\$16,676,174	\$20,315,431	\$19,105,015	\$22,698,475	\$18,564,892	-1%

**Table 1.6 University of Colorado at Denver and Health Sciences, Health Sciences Programs
6-Year History of Sponsored Research Awards**

Academic Unit	2000	2001	2002	2003	2004	2005	% Change
	\$ Amt	\$ Amt	\$ Amt	\$ Amt	\$ Amt	\$ Amt	
Office of the Chancellor	\$24,016,611	\$26,756,137	\$18,270,000	\$6,320,000	\$8,975,496	\$773,482	-97%
Graduate School, Dean's Office	\$56,500	\$27,300	\$0	\$0	\$0	\$0	
School of Medicine							
Dean's Office	\$6,315,966	\$10,978,139	\$12,600,000	\$0	\$7,188,306	\$13,912,160	120%
Anesthesiology	\$1,269,089	\$1,343,041	\$1,590,000	\$2,650,000	\$1,625,092	\$3,422,358	170%
Biochem/Biophysics/Gen.	\$3,926,504	\$6,167,930	\$1,360,000	\$7,310,000	\$6,344,284	\$9,080,738	131%
Cellular & Structural Bio.	\$6,862,233	\$6,095,599	\$9,880,000	\$4,940,000	\$4,988,506	\$6,496,344	-5%
Dermatology	\$1,099,271	\$1,561,458	\$0	\$1,120,000	\$1,272,404	\$1,437,452	31%
Family Medicine	\$2,262,305	\$2,304,747	\$4,160,000	\$2,840,000	\$3,534,199	\$2,994,586	32%
Immunology	\$1,585,466	\$2,239,536	\$1,970,000	\$4,640,000	\$5,093,720	\$5,333,029	236%
Medicine	\$45,298,945	\$56,917,784	\$60,130,000	\$69,250,000	\$70,691,175	\$74,013,521	63%
Microbiology	\$3,557,368	\$3,463,034	\$4,480,000	\$4,120,000	\$6,661,196	\$6,973,238	96%
Neurology	\$3,671,309	\$3,981,407	\$4,140,000	\$4,090,000	\$5,230,625	\$5,733,228	56%
Neuro Surgery		\$314,033	\$0	\$0	\$1,078,040	\$0	
Obstetrics/Gynecology	\$1,629,944	\$1,814,573	\$1,720,000	\$1,630,000	\$2,393,278	\$2,649,457	63%
Ophthalmology	\$0	\$18,301	\$0	\$0	\$588,852	\$0	
Orthopedics	\$274,532	\$435,638	\$0	\$0	\$502,079	\$0	
Otolaryngology	\$159,498	\$286,996	\$0	\$0	\$480,602	\$2,882,260	1707%
Pathology	\$5,022,700	\$7,173,447	\$5,430,000	\$6,940,000	\$6,482,002	\$5,116,099	2%
Pediatrics	\$23,875,683	\$28,918,330	\$33,730,000	\$40,730,000	\$40,330,094	\$46,010,782	93%
Pharmacology	\$9,809,206	\$11,173,916	\$12,700,000	\$13,090,000	\$12,473,645	\$15,525,182	58%
Physiology	\$3,063,426	\$5,100,091	\$4,530,000	\$4,750,000	\$3,690,214	\$4,040,773	32%
Preventive Medicine	\$7,512,561	\$7,803,285	\$9,940,000	\$11,680,000	\$10,333,790	\$9,861,476	31%
Psychiatry	\$34,265,610	\$37,046,890	\$43,130,000	\$29,940,000	\$35,899,028	\$43,097,186	26%
Radiation Oncology		\$571,585			\$551,104	\$0	
Radiology	\$1,734,387	\$921,282	\$2,840,000	\$1,110,000	\$1,048,489	\$1,049,187	-40%
Rehabilitation Medicine	\$0	\$164,974	\$0	\$1,600,000	\$2,366,410	\$3,384,402	
Surgery	\$2,925,061	\$2,011,319	\$4,070,000	\$3,200,000	\$3,194,442	\$6,366,362	118%
Other			\$9,710,000	\$27,720,000	\$778,802	\$5,375,985	
Institutes and Centers	\$18,469,032	\$20,981,927	\$23,480,000	\$15,740,000	\$35,640,602	\$42,171,675	128%
<i>School of Medicine Total</i>	\$166,121,064	\$198,807,335	\$228,110,000	\$243,350,000	\$234,820,378	\$316,927,480	91%
School of Dentistry	\$2,681,819	\$1,674,013	\$5,160,000	\$5,300,000	\$3,826,599	\$6,215,997	132%
School of Nursing	\$7,700,035	\$4,291,433	\$6,320,000	\$5,830,000	\$4,484,223	\$3,467,342	-55%
School of Pharmacy	\$4,930,133	\$7,528,095	\$13,290,000	\$9,580,000	\$12,059,814	\$18,044,657	266%
CAMPUS TOTALS	\$223,975,194	\$260,066,240	\$294,630,000	\$286,120,000	\$299,807,112	\$345,428,958	54%

Section II

Fiscal 2004 Research & Development Expenditures

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Table 2.1 Research and Development Expenditures as reported to the National Science Foundation (NSF)
 [Dollars in Thousands]
Annual Percent Change by Funding Source and Receiving Discipline
NSF Ranking for FY 2001, 2002, and 2003 among Public Colleges and Universities

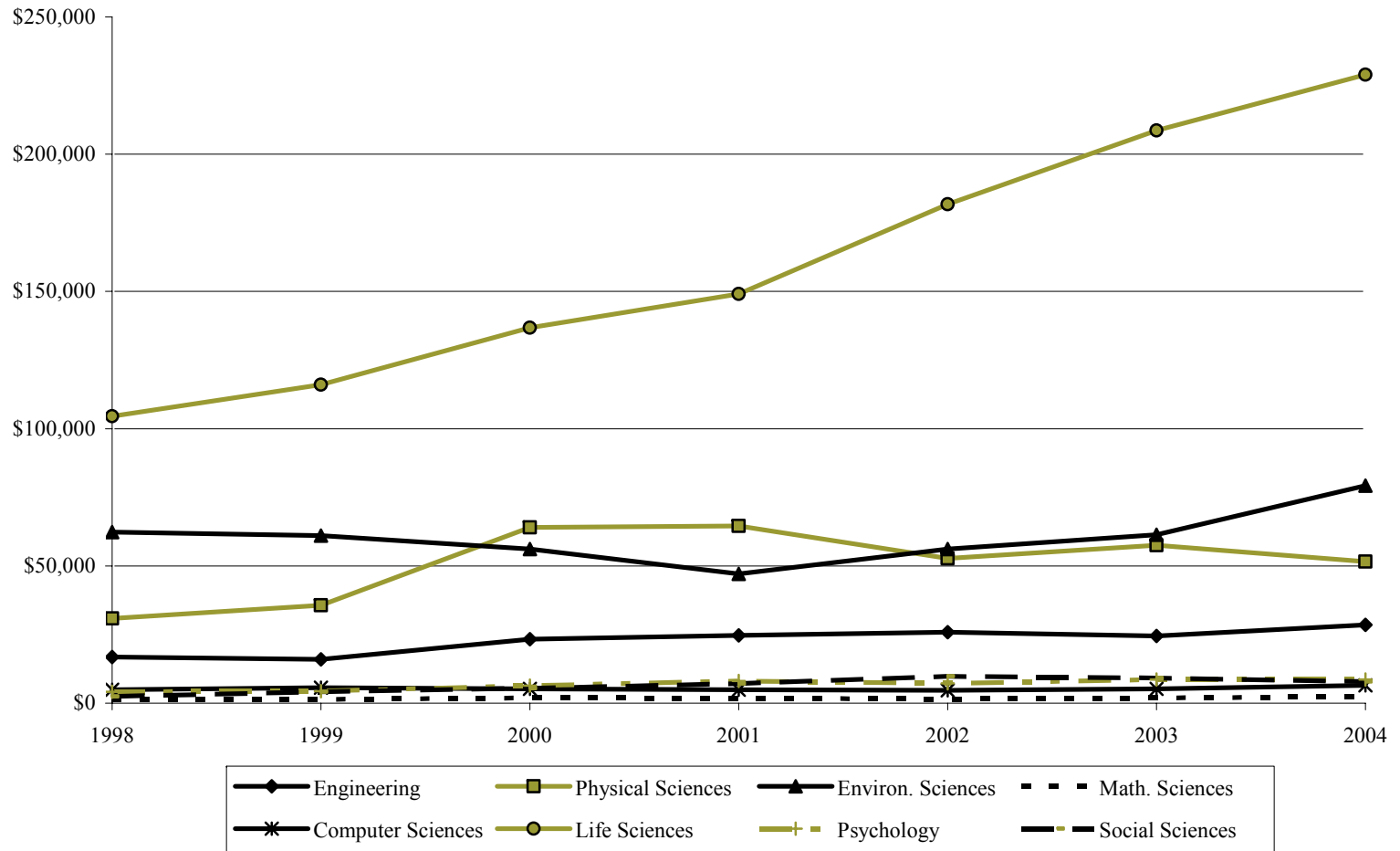
TOTAL By Source	2000	2001			2002			2003			2004	
		\$	% chg	NSF Rank	\$	% chg	NSF Rank	\$	% chg	NSF Rank	\$	% chg
Total R&D Expenditures	\$353,908	\$365,472	3%	15	\$399,818	9%	15	\$436,761	9%	15	\$482,992	11%
Federal R&D Expenditures	\$300,667	\$308,643	3%	5	\$340,466	10%	6	\$377,941	11%	6	\$414,986	10%
Federal as a % of Total	85.0%	84.5%			85.2%			86.5%			85.9%	

TOTAL By Discipline	2000	2001			2002			2003			2004	
		\$	% chg	NSF Rank	\$	% chg	NSF Rank	\$	% chg	NSF Rank	\$	% chg
Engineering	\$31,174	\$33,021	6%	31	\$32,911	0%	28	\$31,196	-5%	20	\$35,329	13%
Physical Sciences	\$72,003	\$71,362	-1%	3	\$58,379	-18%	6	\$62,588	7%	10	\$57,472	-8%
Environmental Sciences	\$62,770	\$51,590	-18%	4	\$60,896	18%	4	\$65,638	8%	6	\$86,142	31%
Mathematical Sciences	\$2,144	\$1,979	-8%	30	\$1,651	-17%	31	\$2,334	41%	49	\$2,862	23%
Computer Sciences	\$6,053	\$5,577	-8%	30	\$5,440	-2%	31	\$5,743	6%	49	\$7,289	27%
Life Sciences	\$163,191	\$181,571	11%	20	\$219,454	21%	18	\$247,305	13%	29	\$272,329	10%
Psychology	\$7,840	\$9,635	23%	9	\$8,246	-14%	13	\$9,560	16%	22	\$9,908	4%
Social Sciences	\$7,176	\$9,274	29%	34	\$12,032	30%	24	\$11,195	-7%	40	\$9,923	-11%
Other Sciences	\$1,557	\$1,463	-6%		\$809	-45%		\$1,202	49%		\$1,738	45%
TOTAL	\$353,908	\$365,472	3%		\$399,818	9%		\$436,761	9%		\$482,992	11%

FEDERAL By Discipline	2000	2001			2002			2003			2004	
		\$	% chg	NSF Rank	\$	% chg	NSF Rank	\$	% chg	NSF Rank	\$	% chg
Engineering	\$23,331	\$24,704	6%	22	\$25,869	5%	18	\$24,476	-5%	28	\$28,482	16%
Physical Sciences	\$64,056	\$64,575	1%	1*	\$52,783	-18%	3*	\$57,555	9%	3*	\$51,571	-10%
Environmental Sciences	\$56,172	\$47,056	-16%	4*	\$56,117	19%	4*	\$61,328	9%	3*	\$79,182	29%
Mathematical Sciences	\$1,948	\$1,764	-9%	17	\$1,479	-16%	20	\$1,955	32%	26	\$2,307	18%
Computer Sciences	\$5,185	\$4,860	-6%	17	\$4,730	-3%	20	\$5,158	9%	26	\$6,475	26%
Life Sciences	\$136,720	\$149,083	9%	11	\$181,759	22%	10	\$208,648	15%	10*	\$228,915	10%
Psychology	\$6,339	\$8,097	28%	2*	\$7,206	-11%	7*	\$8,621	20%	5*	\$8,629	0%
Social Sciences	\$5,432	\$7,140	31%	9*	\$9,832	38%	7*	\$9,134	-7%	11	\$7,919	-13%
Other Sciences	\$1,484	\$1,364	-8%		\$691	-49%		\$1,066	54%		\$1,506	41%
TOTAL FEDERAL	\$300,667	\$308,643	3%		\$340,466	10%		\$377,941	11%		\$414,986	10%

* Discipline ranked in Top Ten nationally among public colleges and universities for federal R&D funding.

Figure 2. 1 Growth in Federal R&D Expenditures by Discipline



Section III

Fiscal 2003 CU Systemwide Research & Development Expenditures as reported and ranked by the National Science Foundation

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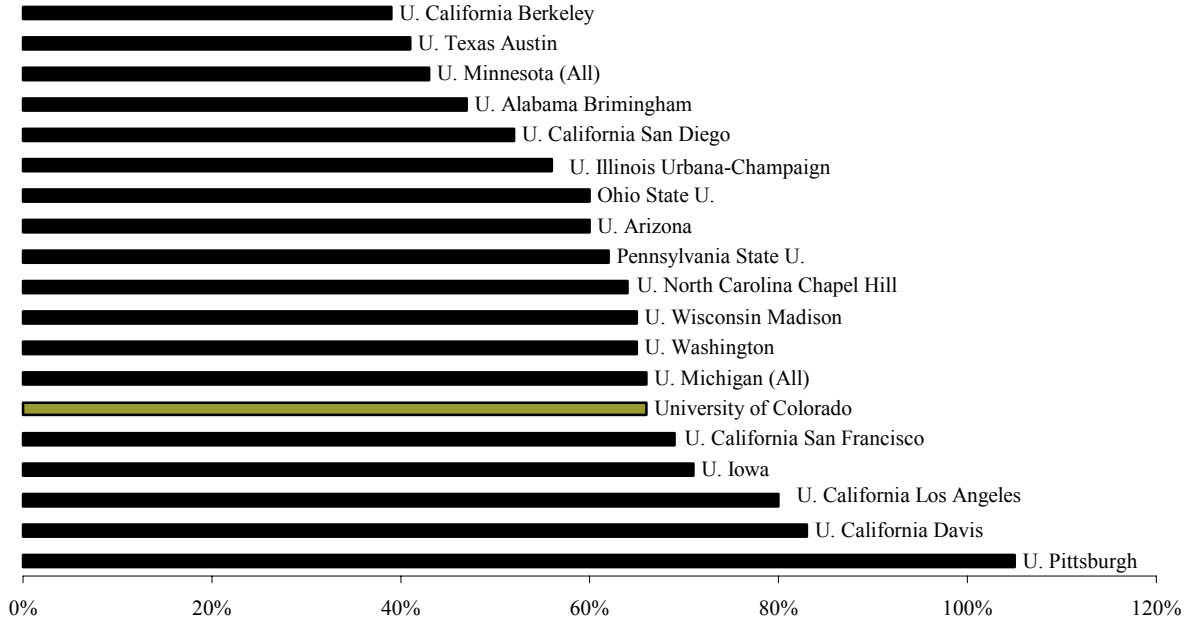
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**Table 3.1 National Science Foundation Research Expenditure Rankings
Federal R&D Expenditures, Top 20 Public U.S. Universities
[Dollars in Thousands]**

1998			2003			5-Yr % Change
INSTITUTION	Rank	\$\$	INSTITUTION	Rank	\$\$	
U. Washington	1	\$342,291	U. Washington	1	\$565,602	65%
U. Michigan (All)	2	\$311,450	U. Michigan (All)	2	\$516,818	66%
U. California San Diego	3	\$263,103	U. California Los Angeles	3	\$421,174	80%
U. Wisconsin Madison	4	\$240,513	U. California San Diego	4	\$400,100	52%
U. California Los Angeles	5	\$234,005	U. Wisconsin Madison	5	\$396,213	65%
University of Colorado	6	\$228,342	University of Colorado	6	\$377,941	66%
U. California San Francisco	7	\$219,630	U. California San Francisco	7	\$371,697	69%
U. Minnesota (All)	8	\$204,741	U. Pittsburgh (All)	8	\$345,625	105%
Pennsylvania State U. (All)	9	\$186,274	Pennsylvania State U. (All)	9	\$301,094	62%
U. California Berkeley	10	\$171,747	U. Minnesota (All)	10	\$293,266	43%
U. North Carolina Chapel Hill	11	\$171,505	U. North Carolina Chapel Hill	11	\$280,678	64%
U. Illinois Urbana-Champaign	12	\$171,250	U. Illinois Urbana-Champaign	12	\$266,487	56%
U. Pittsburgh (All)	13	\$168,511	U. Arizona	13	\$259,074	60%
U. Alabama Birmingham	14	\$166,830	U. Alabama Birmingham	14	\$245,217	47%
U. Texas Austin	15	\$165,082	U. California Berkeley	15	\$238,206	39%
U. Arizona	16	\$161,999	U. Texas Austin	16	\$231,996	41%
U. Maryland College Park	17	\$129,198	U. California Davis	17	\$208,327	83%
Ohio State U. (All)	18	\$124,177	Georgia Institute of Technology (All)	18	\$203,582	
U. Iowa	19	\$115,312	Ohio State U. (All)	19	\$198,488	60%
U. California Davis	20	\$114,018	U. Iowa	20	\$197,260	71%

Source: NSF Report, R&D Expenditures at Colleges and Universities FY 2003, July 2005

**Figure 3.1 Five-Year Percent Change in Federal R&D Expenditures
Top 20 Public NSF Ranking Institutions for FY 2003**



Source: NSF Report, R&D Expenditures at Colleges and Universities FY 2003, July 2005

**Table 3.2 Federally Financed R&D Expenditures at Public Universities and Colleges
Top 20 Ranked by Science and Engineering Field, FY 2003
(includes only institutions among Top 100 in total federal R&D expenditures)
[Dollars in Thousands]**

Overall			Engineering		
Rank	Institution	Total	Rank	Institution	Total
1	U. Washington	\$565,602	1	Georgia Institute of Technology	\$134,150
2	U. Michigan (All)	\$516,818	2	U. Michigan (All)	\$115,309
3	U. California Los Angeles	\$421,174	3	Pennsylvania State U. (All)	\$110,675
4	U. California San Diego	\$400,100	4	U. Texas Austin	\$80,074
5	U. Wisconsin Madison	\$396,213	5	U. Illinois Urbana-Champaign	\$66,381
6	U. Colorado (All)	\$377,941	6	Utah State U.	\$65,374
7	U. California San Francisco	\$371,697	7	U. California Berkeley	\$64,345
8	U. Pittsburgh (All)	\$345,625	8	U. Wisconsin Madison	\$60,860
9	Pennsylvania State U. (All)	\$301,094	9	New Mexico State U. (All)	\$49,091
10	U. Minnesota (All)	\$293,266	10	U. Maryland College Park	\$47,813
11	U. North Carolina Chapel Hill	\$280,678	11	U. Washington	\$44,116
12	U. Illinois Urbana-Champaign	\$266,487	12	Mississippi State U.	\$41,932
13	U. Arizona	\$259,074	13	Purdue U. (All)	\$41,770
14	U. Alabama Birmingham	\$245,217	14	U. California Los Angeles	\$40,324
15	U. California Berkeley	\$238,206	15	Texas A&M U. (All)	\$39,809
16	U. Texas Austin	\$231,996	16	Virginia Polytechnic Inst. & State U.	\$39,298
17	U. California Davis	\$208,327	17	U. Florida	\$38,424
18	Georgia Institute of Technology (All)	\$203,582	18	Clemson U.	\$32,582
19	Ohio State U. (All)	\$198,488	19	U. California San Diego	\$32,582
20	U. Iowa	\$197,260	20	U. California Santa Barbara	\$32,116
			↓		
			26	U. Colorado (All)	\$24,476
Physical Sciences			Environmental Sciences		
Rank	Institution	Total	Rank	Institution	Total
1	U. Arizona	\$62,584	1	U. Washington	\$76,736
2	U. California Berkeley	\$58,292	2	U. California San Diego	\$71,454
3	U. Colorado (All)	\$57,555	3	U. Colorado (All)	\$61,328
4	U. Texas Austin	\$51,027	4	U. Texas A&M U.	\$60,162
5	U. Maryland College Park	\$42,879	5	U. Alaska Fairbanks (All)	\$44,858
6	Pennsylvania State U. (All)	\$40,089	6	U. Wisconsin Madison	\$36,300
7	U. California Los Angeles	\$39,145	7	U. Hawaii Manoa	\$33,925
8	U. Wisconsin Madison	\$32,695	8	U. New Hampshire	\$33,370
9	U. Illinois Urbana-Champaign	\$31,765	9	Oregon State U.	\$32,385
10	U. California San Diego	\$31,052	10	Colorado State U.	\$31,928
11	Michigan State U.	\$30,314	11	U. Rhode Island	\$26,542
12	U. Washington	\$26,603	12	Pennsylvania State U.	\$23,646
13	Florida State U.	\$26,052	13	U. South Florida	\$22,221
14	U. Michigan (All)	\$25,355	14	U. Maryland Baltimore County	\$15,871
15	U. California San Francisco	\$22,787	15	U. Illinois Urbana-Champaign	\$13,144
16	U. California Santa Barbara	\$19,814	16	U. California Davis	\$12,502
17	U. Minnesota (All)	\$19,609	17	U. Oklahoma (All)	\$12,299
18	State U. of New York at Stony Brook	\$19,062	18	State U. of New York at Stony Brook	\$12,146
19	U. Florida	\$18,691	19	Rutgers, State U. New Jersey (All)	\$11,993
20	Ohio State U. (All)	\$17,776	20	U. North Carolina Chapel Hill	\$11,974

Source: NSF Detailed Statistical Tables, July 2005

Table 3.2 Federally Financed R&D Expenditures at Public Universities and Colleges (cont.) Top 20 Ranked by Science and Engineering Field, FY 2003 (includes only institutions among Top 100 in total federal R&D expenditures) [Dollars in Thousands]

Math and Computer Sciences			Life Sciences		
Rank	Institution	Total	Rank	Institution	Total
1	U. Illinois Urbana-Champaign	\$87,714	1	U. Washington	\$392,628
2	U. California San Diego	\$51,638	2	U. California San Francisco	\$348,910
3	U. Texas Austin	\$37,405	3	U. Pittsburgh (All)	\$299,734
4	Georgia Institute of Technology	\$31,350	4	U. California Los Angeles	\$299,298
5	U. Maryland College Park	\$21,983	5	U. Michigan (All)	\$285,432
6	U. Hawaii Manoa	\$19,351	6	U. Alabama Birmingham	\$226,708
7	Pennsylvania State U. (All)	\$18,457	7	U. North Carolina Chapel Hill	\$218,951
8	Naval Postgraduate School	\$16,873	8	U. Wisconsin Madison	\$212,985
9	Oregon Health & Science U.	\$16,765	9	U. Minnesota (All)	\$210,906
10	U. California Los Angeles	\$13,668	10	U. Colorado (All)	\$208,648
11	U. Illinois Chicago	\$13,409	11	U. California San Diego	\$203,564
12	U. Utah	\$13,116	12	U. Texas SW Medical Center Dallas	\$177,196
13	U. Minnesota (All)	\$13,112	13	U. Cincinnati (All)	\$167,484
14	U. Wisconsin Madison	\$12,784	14	U. Iowa	\$163,646
15	U. Washington	\$11,455	15	U. California Davis	\$155,161
16	Texas A&M U. (All)	\$11,432	16	U. Arizona	\$142,078
17	U. Massachusetts Amherst	\$11,308	17	Oregon Health & Science U.	\$137,235
18	U. California Santa Barbara	\$9,945	18	U. Maryland Baltimore	\$126,156
19	North Carolina State U.	\$9,055	19	U. Illinois Chicago	\$124,559
20	U. North Carolina Chapel Hill	\$8,682	20	U. Virginia (All)	\$120,155
↓					
26	U. CO (All)	\$7,113			

Psychology			Social Sciences		
Rank	Institution	Total	Rank	Institution	Total
1	U. Wisconsin Madison	\$21,042	1	U. Michigan (All)	\$69,293
2	Pennsylvania State U. (All)	\$10,256	2	U. Maryland College Park	\$28,506
3	Oregon Health & Science U.	\$10,221	3	U. Wisconsin Madison	\$19,565
4	U. Michigan (All)	\$9,348	4	U. North Carolina Chapel Hill	\$18,903
5	U. Colorado (All)	\$8,621	5	Ohio State U. (All)	\$15,074
6	U. New Mexico (All)	\$8,557	6	Naval Postgraduate School	\$12,565
7	U. Connecticut (All)	\$8,547	7	U. Texas Austin	\$11,751
8	U. California Los Angeles	\$8,194	8	Michigan State U.	\$11,597
9	Temple U.	\$8,113	9	U. Arizona	\$10,010
10	U. California Berkeley	\$8,065	10	Pennsylvania State U. (All)	\$9,778
11	U. Georgia	\$7,935	11	U. Colorado (All)	\$9,134
12	U. Washington	\$7,897	12	Iowa State U.	\$7,961
13	Indiana U. (All)	\$7,644	13	U. Minnesota (All)	\$7,925
14	U. South Florida	\$7,460	14	U. California Los Angeles	\$7,766
15	Arizona State U. (Main)	\$7,164	15	Indiana U. (All)	\$7,303
16	U. Texas Austin	\$6,572	16	U. Illinois Chicago	\$6,811
17	U. Illinois Urbana-Champaign	\$6,564	17	Florida International U.	\$6,709
18	U. Pittsburgh (All)	\$6,515	18	U. California Berkeley	\$6,586
19	U. Alabama Birmingham	\$6,445	19	Florida State U.	\$6,387
20	U. Florida	\$6,197	20	U. Washington	\$6,167

Source: NSF Detailed Statistical Tables, July 2005

Table 3.3 Total R&D Expenditures by Source
FY 2003 Top 100 Public Universities and Colleges
Ranked by FY 2003 % of Total from Industry
[Dollars in Thousands]

The University of Colorado receives 2% of its research funding from industry, ranking 78th among public colleges and universities.

	Industry		Federal		State & Local		Institutional		Total
	Dollars	% of Total	Dollars	% of Total	Dollars	% of Total	Dollars	% of Total	Dollars
U. Maryland Baltimore	65,473	22%	126,156	42%	28,163	9%	40,737	14%	297,271
U. Alaska Fairbanks (All)	23,093	18%	72,607	56%	2,817	2%	30,399	24%	128,916
Pennsylvania State U. (All)	77,660	15%	301,094	56%	56,104	11%	97,496	18%	533,427
North Carolina State U.	35,940	13%	96,157	34%	83,003	29%	62,795	22%	286,025
Purdue U. (All)	34,720	11%	129,199	42%	43,806	14%	101,437	33%	309,476
Virginia Polytechnic Inst. & State U.	24,760	10%	98,143	40%	58,378	24%	56,046	23%	247,807
U. Texas M. D. Anderson Cancer Ctr.	31,316	10%	122,869	39%	78,379	25%	45,267	14%	315,169
U. Texas Austin	32,174	9%	231,996	67%	21,338	6%	42,702	12%	343,854
Ohio State U. (All)	45,957	9%	198,488	40%	11,657	2%	187,954	38%	496,438
U. California Santa Barbara	13,550	9%	88,422	59%	2,834	2%	26,766	18%	149,130
Georgia Institute of Technology	32,839	9%	203,582	56%	8,054	2%	115,672	32%	364,190
Virginia Commonwealth U.	10,780	9%	81,201	64%	3,424	3%	26,828	21%	126,451
U. Texas Health Science Ctr. Houston	12,414	8%	107,481	72%	3,240	2%	11,614	8%	149,294
Clemson U.	12,329	8%	62,552	41%	17,172	11%	60,572	40%	152,986
Colorado State U.	14,736	8%	117,151	63%	21,066	11%	32,395	17%	187,054
U. Houston	4,980	8%	32,556	51%	9,570	15%	9,411	15%	63,455
Texas Tech U.	7,166	8%	31,776	34%	27,207	29%	21,925	24%	92,515
New Jersey Institute of Technology	5,681	8%	30,535	41%	11,518	16%	22,774	31%	73,664
Iowa State U.	14,384	7%	82,297	41%	42,204	21%	58,012	29%	199,566
U. Indiana	20,954	7%	197,260	68%	8,505	3%	55,067	19%	292,035
U. Vermont	7,477	7%	70,832	67%	3,436	3%	16,818	16%	104,994
U. Washington	48,222	7%	565,602	83%	11,699	2%	43,599	6%	684,814
U. Arizona	31,079	7%	259,074	57%	17,668	4%	126,029	28%	454,941
U. Central Florida	6,128	7%	47,749	53%	4,822	5%	28,610	32%	89,880
U. Arizona main campus	5,470	7%	27,071	33%	33,438	41%	13,601	17%	82,277
U. Tennessee (All)	13,994	6%	100,486	46%	40,451	19%	43,302	20%	217,389
U. New Hampshire	6,195	6%	59,463	62%	4,453	5%	20,318	21%	96,415
U. Connecticut (All)	12,143	6%	111,654	59%	6,615	3%	43,564	23%	190,341
Wayne State U.	13,566	6%	102,963	48%	17,254	8%	64,519	30%	213,717
Montana State U. Bozeman	5,601	6%	53,283	58%	19,005	21%	13,614	15%	91,503
U. Oklahoma (All)	10,645	6%	75,318	43%	14,181	8%	59,118	34%	174,466
U. of Medicine & Dentistry NJ	11,364	6%	105,495	55%	9,977	5%	41,818	22%	190,763
Temple U.	4,245	6%	51,309	72%	1,832	3%	7,785	11%	71,327
Texas A&M U. (All)	27,006	6%	177,119	39%	112,180	25%	128,079	28%	456,235
U. Texas Health Science Ctr. San Antonio	7,514	6%	86,683	65%	5,857	4%	22,375	17%	133,304
U. California San Francisco	37,396	6%	371,697	55%	26,668	4%	127,704	19%	671,443
Arizona State U. main campus	8,103	6%	71,741	49%	18,141	12%	44,167	30%	145,591
U. Florida	23,893	6%	194,958	45%	70,977	17%	124,070	29%	429,734
U. Arkansas for Medical Sciences	3,519	6%	41,681	65%	6,279	10%	9,460	15%	63,677
U. Georgia	15,777	5%	93,884	31%	56,806	19%	132,374	44%	299,748
U. Texas Medical Branch	7,979	5%	93,039	61%	13,783	9%	24,770	16%	153,122
U. Nebraska central administration	14,314	5%	96,627	35%	8,515	3%	136,998	50%	276,424
Louisiana State U. (All)	16,212	5%	99,362	32%	87,637	28%	88,327	28%	314,665
Medical U. of South Carolina	7,288	5%	92,893	62%	639	0%	44,266	29%	150,551
U. Maine	3,323	5%	28,901	42%	11,017	16%	23,545	34%	68,923
U. Minnesota (All)	24,152	5%	293,266	58%	59,293	12%	70,446	14%	508,557
Oklahoma State U. (All)	4,877	5%	37,748	37%	25,281	25%	34,485	33%	103,079
U. California Irvine	11,101	5%	133,873	57%	11,062	5%	49,316	21%	234,656
U. California Davis	22,688	5%	208,327	43%	40,059	8%	163,540	34%	482,145

**Table 3.3 Total R&D Expenditures by Source
(cont.) FY 2003 Top 100 Public Universities and Colleges
Ranked by FY 2003 % of Total from Industry
[Dollars in Thousands]**

	Industry		Federal		State & Local		Institutional		Total
	Dollars	% of Total	Dollars	% of Total	Dollars	% of Total	Dollars	% of Total	Dollars
U. Michigan (All)	36,087	5%	516,818	66%	16,532	2%	157,565	20%	780,054
New Mexico State U. (All)	4,895	5%	75,368	69%	7,935	7%	19,035	18%	108,613
U. California San Diego	28,868	4%	400,100	62%	23,781	4%	122,556	19%	646,508
U. California Riverside	5,004	4%	40,409	36%	6,916	6%	49,276	44%	112,468
U. California Berkeley	22,460	4%	238,206	47%	34,976	7%	141,929	28%	507,186
State U. of New York at Buffalo (All)	10,575	4%	129,794	54%	7,898	3%	68,367	28%	240,180
Oregon Health & Science U.	8,673	4%	164,221	83%	3,898	2%	6,575	3%	197,178
U. Virginia (All)	9,053	4%	173,442	84%	990	0%	13,139	6%	206,199
U. Texas SW Medical Center Dallas	12,087	4%	177,196	64%	15,933	6%	6,968	3%	276,692
Rutgers, State U. New Jersey (All)	10,821	4%	106,060	39%	34,963	13%	95,256	35%	274,576
U. Hawaii Manoa	6,829	4%	143,580	80%	11,792	7%	17,084	10%	179,285
Mississippi State U.	6,246	4%	79,837	48%	31,931	19%	47,908	29%	165,922
U. Idaho	3,111	4%	42,861	50%	18,408	22%	19,539	23%	85,213
U. California Los Angeles	30,425	4%	421,174	50%	67,483	8%	207,588	24%	849,357
Michigan State U.	11,307	4%	133,820	42%	56,953	18%	106,639	33%	321,410
U. Massachusetts Amherst	3,838	3%	60,839	54%	3,842	3%	36,490	32%	113,512
Auburn U. (All)	3,849	3%	45,374	37%	1,032	1%	69,112	56%	124,103
U. Delaware	2,982	3%	69,493	69%	3,506	3%	19,840	20%	100,706
U. Massachusetts Worcester	4,397	3%	109,082	73%	26,976	18%	0	0%	148,823
U. South Carolina (All)	3,368	3%	63,044	52%	3,668	3%	46,354	38%	121,410
U. Illinois Urbana-Champaign	13,253	3%	266,487	54%	52,725	11%	140,859	29%	493,581
U. Maryland College Park	8,060	3%	183,206	57%	19,478	6%	100,717	31%	321,899
State U. of New York at Stony Brook (All)	4,950	2%	112,452	56%	4,552	2%	64,791	32%	200,330
U. Kentucky (All)	6,693	2%	120,003	44%	42,067	15%	85,034	31%	272,062
Kansas State U.	2,751	2%	53,313	47%	33,720	30%	17,501	16%	112,733
U. Illinois Chicago	7,014	2%	168,063	58%	9,235	3%	86,372	30%	291,507
Utah State U.	3,340	2%	95,494	69%	19,204	14%	17,403	13%	138,862
Indiana U. (All)	8,079	2%	153,625	45%	5,061	1%	124,546	37%	337,669
U. Colorado (All)	10,239	2%	377,941	87%	7,765	2%	22,345	5%	436,761
U. Missouri Columbia	4,802	2%	84,211	41%	21,885	11%	89,127	43%	205,212
U. Utah	4,964	2%	152,112	68%	2,656	1%	36,834	16%	223,739
U. Wisconsin Madison	15,918	2%	396,231	55%	41,492	6%	199,072	28%	721,248
U. Alabama Birmingham	6,255	2%	245,217	86%	99	0%	19,307	7%	284,497
West Virginia U.	2,274	2%	60,586	58%	3,067	3%	37,049	35%	104,748
U. California Santa Cruz	1,683	2%	38,213	49%	1,568	2%	26,283	34%	78,448
Washington State U.	3,666	2%	70,653	40%	7,124	4%	83,208	47%	175,181
U. Cincinnati (All)	5,254	2%	185,261	73%	5,269	2%	46,233	18%	255,083
U. Nevada Reno	1,570	2%	47,756	59%	4,036	5%	25,675	32%	80,553
San Diego State U.	1,249	2%	28,084	42%	9,169	14%	21,488	32%	67,053
U. North Carolina Chapel Hill	6,551	2%	280,678	72%	15,690	4%	87,623	22%	390,542
U. Kansas (All)	2,821	2%	90,876	53%	6,444	4%	61,976	36%	173,024
U. Louisville	1,442	2%	39,924	45%	7,355	8%	26,007	29%	88,522
U. New Mexico (All)	2,286	1%	106,541	67%	3,348	2%	41,157	26%	158,239
State U. of New York at Albany	1,554	1%	76,038	63%	23,477	19%	7,865	7%	120,655
U. Mississippi (All)	964	1%	62,140	73%	4,624	5%	10,754	13%	85,378
U. Pittsburgh (All)	4,427	1%	345,625	84%	10,784	3%	24,202	6%	409,684
North Dakota State U. (All)	979	1%	37,940	41%	2,120	2%	46,276	50%	91,812
U. Rhode Island	619	1%	51,942	84%	6,540	11%	1,428	2%	61,818
U. South Florida	2,115	1%	106,102	50%	10,098	5%	72,405	34%	213,249
Florida State U.	1,329	1%	87,985	58%	9,508	6%	48,109	32%	152,277
Oregon State U.	353	0%	100,499	60%	32,385	19%	29,736	18%	167,631

Table 3.4 Federally Financed R&D Expenditures, FY 1998-2003
FY 2003 Top 20 Universities and Colleges
Ranked by 5-Yr % Change in Total Federal R&D Expenditures
[Dollars in thousands]

Institution and Ranking	1998	1999	2000	2001	2002	2003	5-Yr. % Change
U. Pittsburgh (All)	168,511	194,618	228,155	268,571	306,913	345,625	105%
Washington U. St. Louis	187,173	218,598	254,148	284,928	303,441	357,364	91%
U. California Los Angeles	234,005	251,999	274,162	312,858	366,762	421,174	80%
U. California San Francisco	219,630	233,181	248,878	277,489	327,393	371,697	69%
Columbia U. in the City of NY	229,723	240,158	283,163	317,928	356,749	385,529	68%
U. Pennsylvania	247,914	279,013	312,434	351,996	397,587	415,631	68%
U. Colorado (All)	228,342	244,686	300,667	308,643	340,466	377,941	66%
U. Michigan (All)	311,450	334,226	364,033	396,117	444,255	516,818	66%
U. Washington	342,291	368,112	389,622	435,103	487,059	565,602	65%
U. Wisconsin Madison	240,513	249,212	278,629	304,009	345,003	396,231	65%
Pennsylvania State U. (All)	186,274	199,105	226,074	245,951	284,706	301,094	62%
U. Southern California	190,547	199,619	210,872	246,207	266,645	300,195	58%
Cornell U. (All)	204,187	234,792	229,872	240,466	270,578	320,868	57%
U. California San Diego	263,103	292,007	326,037	343,276	359,383	400,100	52%
Johns Hopkins U.	752,983	770,580	793,266	879,741	1,022,510	1,106,971	47%
Stanford U.	342,426	353,947	367,083	384,468	426,620	483,540	41%
Harvard U.	251,876	266,019	281,699	300,414	336,607	348,620	38%
Massachusetts Institute of Technology	310,741	308,921	306,668	304,319	330,409	356,206	15%
Duke U.			204,180	218,109	261,356	306,864	
Baylor C. of Medicine			193,249	234,394	259,475	302,764	

Table 3.5 Federally Financed R&D Expenditures, FY 1998-2003
FY 2003 Top 20 Public Universities and Colleges
Ranked by 5-Yr % Change in Total Federal R&D Expenditures
[Dollars in thousands]

Institution and Ranking	1998	1999	2000	2001	2002	2003	5-Yr. % Change
U. Pittsburgh (All)	168,511	194,618	228,155	268,571	306,913	345,625	105%
U. California Davis	114,018	124,463	141,740	154,937	176,644	208,327	83%
U. California Los Angeles	234,005	251,999	274,162	312,858	366,762	421,174	80%
U. Iowa	115,312	122,638	140,764	155,249	180,743	197,260	71%
U. California San Francisco	219,630	233,181	248,878	277,489	327,393	371,697	69%
U. Michigan (All)	311,450	334,226	364,033	396,117	444,255	516,818	66%
U. Colorado (All)	228,342	244,686	300,667	308,643	340,466	377,941	66%
U. Washington	342,291	368,112	389,622	435,103	487,059	565,602	65%
U. Wisconsin Madison	240,513	249,212	278,629	304,009	345,003	396,213	65%
U. North Carolina Chapel Hill	171,505	182,935	194,794	221,615	254,571	280,678	64%
Pennsylvania State U. (All)	186,274	199,105	226,074	245,951	284,706	301,094	62%
U. Arizona	161,999	178,126	187,161	199,484	211,772	259,074	60%
Ohio State U. (All)	124,177	135,216	132,219	161,092	177,883	198,488	60%
U. Illinois Urbana-Champaign	171,250	185,767	193,490	195,316	214,323	266,487	56%
U. California San Diego	263,103	292,007	326,037	343,276	359,383	400,100	52%
U. Alabama Birmingham	166,830	165,223	175,309	194,625	216,221	245,217	47%
U. Minnesota (All)	204,741	207,761	229,958	264,289	295,301	293,266	43%
U. Maryland College Park	129,198	145,081	136,605	145,515	194,095	183,206	42%
U. Texas Austin	165,082	164,913	178,889	195,184	219,158	231,996	41%
U. California Berkeley	171,747	191,025	208,338	208,080	217,297	238,206	39%

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