



UNIVERSITY OF COLORADO SYSTEM

Boulder • Colorado Springs • Denver

Office of the Vice President for Budget and Finance

University of Colorado 2008 Sponsored Research Report

Prepared by the University of Colorado System Office of Institutional Research

June 2009

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Foreward

In Section I, sponsored research awards refer to contracts and grants awarded to CU faculty. Many are multiyear contracts, which are only partially accounted for in research and development expenditures reported for one year. In this report, “sponsored research awards” is used broadly to include all sponsored projects.

Section II is based on data from a National Science Foundation survey of research and development expenditures in science and engineering fields. This survey collects data on expenditures by universities and colleges for separately budgeted research and development (R&D). NSF data are, typically, one or more years behind the data available in Section I.

NSF Survey Definitions:

Research and Development (R&D). R&D for purposes of this survey is the same as “organized research” as defined in Section B.1.b. of OMB Circular A-21 (revised). It includes all R&D activities of an institution that are separately budgeted and accounted for. R&D includes both sponsored research activities (sponsored by Federal and non-Federal agencies and organizations) and university research (separately budgeted under an internal application of institutional funds). Current fund expenditures are expenditures of funds available for current operations. Such expenditures include all unrestricted gifts and restricted current funds to the extent that such funds were expended for current operating purposes.

Research is systematic study directed toward fuller knowledge or understanding of the subject studied. Research is classified as either basic or applied, according to the objectives of the investigator.

Development is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes.

Current fund expenditures. These are expenditures of funds available for current operations. Such expenditures include all unrestricted gifts and restricted current funds to the extent that such funds were expended for current operating purposes.

Report Highlights

Section I: Fiscal Year 2008 Sponsored Research Awards

- In 2008, CU attracted \$660.7 million in sponsored research awards, 4% more than the previous year.
- Federal funding represented more than 69% of all research funding in 2008.
- Research funding at the Boulder campus reached a historic high in 2008 of \$280 million.
- Research funding at the Colorado Springs campus has grown rapidly over the last ten years, increasing from \$2.2 million to \$9.2 million.
- The Denver campus (including the Anschutz Medical Campus) attracted more than \$370 million in research funding in 2008, the highest level yet.

Section II: Fiscal 2007 University of Colorado R&D Expenditures as reported to and ranked by the National Science Foundation (NSF)

- CU placed 7th among public universities and colleges in terms of 2007 federally financed research expenditures in science and engineering fields. Rankings for specific disciplines include:
- 1st – Environmental Sciences
- 2nd – Psychology
- 4th – Physical Sciences
- 11th – Life Sciences
- 21st – Social Sciences
- 22nd – Engineering
- 25th – Math and Computer Sciences

Section I: Fiscal Year 2008 Sponsored Research Awards

Table 1.1 University of Colorado Sponsored Research Awards FY 1998 - FY 2008

Awards Granted by Campus [in Millions]

Campus	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	% Change 1998-2008
Boulder	\$181.7	\$204.3	\$214.2	\$219.0	\$229.0	\$250.4	\$259.7	\$257.6	\$256.4	\$266.1	\$280.0	54.1%
Colorado Springs	\$2.2	\$2.3	\$3.0	\$2.7	\$1.9	\$5.2	\$6.2	\$8.7	\$10.3	\$7.9	\$9.2	318.2%
Denver	\$183.0	\$213.8	\$242.7	\$276.7	\$314.9	\$305.3	\$322.5	\$364.0	\$373.3	\$363.4	\$371.5	103.0%
Total	\$366.9	\$420.4	\$459.9	\$498.4	\$545.8	\$560.9	\$588.4	\$630.3	\$640.0	\$637.4	\$660.7	80.1%

Awards Granted by Funding Source [in Millions]

Source	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	% Change 1998-2008
Federal	\$266.9	\$309.9	\$341.7	\$366.4	\$405.0	\$436.4	\$446.0	\$461.0	\$454.9	\$435.7	\$457.7	71.5%
Non-Federal	\$100.0	\$110.5	\$118.2	\$132.0	\$140.8	\$124.5	\$142.4	\$169.3	\$185.1	\$201.7	\$203.0	103.0%
Total	\$366.9	\$420.4	\$459.9	\$498.4	\$545.8	\$560.9	\$588.4	\$630.3	\$640.0	\$637.4	\$660.7	80.1%

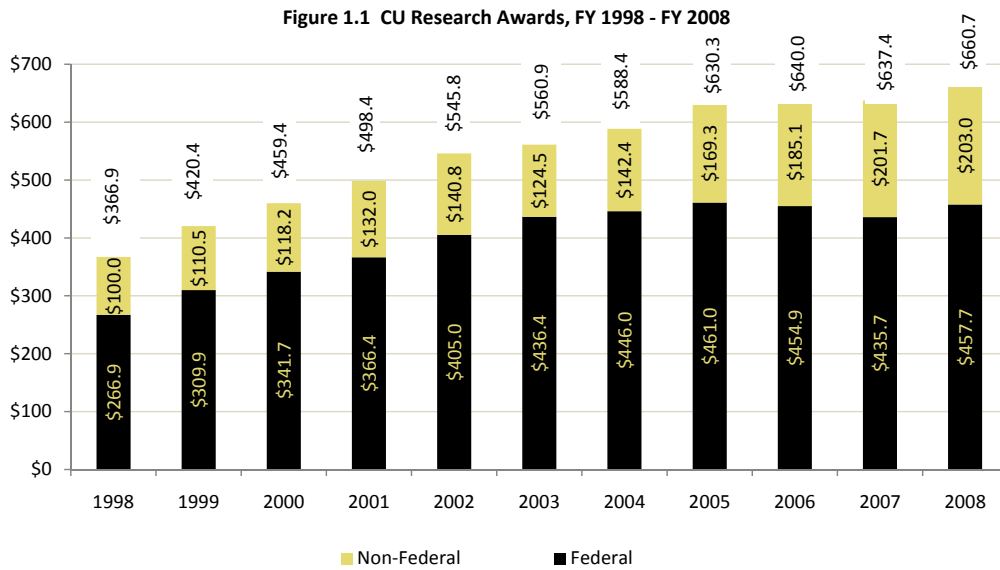
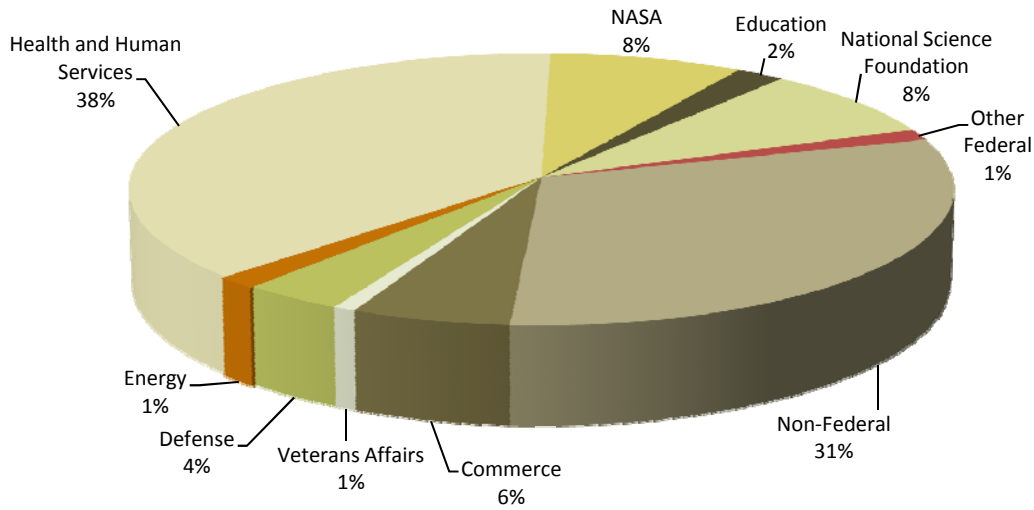


Table 1.2 University of Colorado Sponsored Research Awards by Source, FY 2008 (In Millions of Dollars)

	Boulder	Colorado Springs	Denver			CU total
			Downtown Denver Campus	Anschutz Medical Campus	UCD Total	
Federal	\$ 221,991,136	\$ 5,543,399	\$ 14,292,420	\$ 215,836,528	\$ 230,128,948	\$ 457,663,483
Commerce	\$ 38,106,076					\$ 38,106,076
Veterans Affairs				\$ 5,346,243	\$ 5,346,243	\$ 5,346,243
Defense	\$ 17,876,592	\$ 3,272,219	\$ 1,212,236	\$ 1,873,494	\$ 3,085,730	\$ 24,234,541
Energy	\$ 9,829,934					\$ 9,829,934
Health and Human Services	\$ 42,630,358	\$ 668,063	\$ 1,478,821	\$ 203,371,788	\$ 204,850,609	\$ 248,149,030
NASA	\$ 54,387,639	\$ 174,384				\$ 54,562,023
Education	\$ 8,036,153	\$ 42,000	\$ 3,226,340	\$ 2,477,215	\$ 5,703,555	\$ 13,781,708
National Science Foundation	\$ 47,977,071	\$ 1,271,588	\$ 5,352,305	\$ 355,320	\$ 5,707,625	\$ 54,956,284
Other Federal	\$ 3,147,313	\$ 115,145	\$ 3,022,718	\$ 2,412,468	\$ 5,435,186	\$ 8,697,644
Non-Federal	\$ 58,018,207	\$ 3,629,319	\$ 3,644,487	\$ 137,749,855	\$ 141,394,342	\$ 203,041,868
Total	\$ 280,009,342	\$ 9,172,717	\$ 17,936,907	\$ 353,586,383	\$ 371,523,290	\$ 660,705,349

Figure 1.2 CU Research Awards by Funding Source, FY 2008



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

Academic Unit	2004	2005	2006	2007	2008	% Change 2004 - 2008
Academic Affairs	\$1,150,882	\$828,059	\$169,488	\$400,000	\$2,429,235	111%
ATLAS	\$424,498	\$2,279,018	\$526,580	\$2,641,718	\$0	-
Continuing Education	\$3,000	\$3,000	\$19,500	\$7,000	\$2,500	-17%
Library	\$96,430	\$1,545	\$44,545	\$368,579	\$73,323	-24%
Student Affairs	\$2,713,719	\$3,487,533	\$2,812,929	\$3,081,294	\$4,117,202	52%
Leeds School of Business	\$1,692,494	\$1,075,600	\$3,100,838	\$2,985,768	\$2,361,133	40%
School of Education	\$3,808,121	\$4,438,989	\$4,908,513	\$3,177,376	\$5,264,900	38%
School Of Journalism & Mass Communication	\$277,999	\$236,561	\$749,899	\$85,140	\$0	-100%
School of Law	\$8,633	\$0	\$172,022	\$80,000	\$487,929	5552%
College of Arts & Sciences	\$75,888,468	\$61,888,727	\$64,913,092	\$67,981,928	\$70,155,523	-8%
Administration	\$29,975	\$7,575	\$49,393	\$28,154	\$9,730	-68%
Advanced Res & Training, Center for	\$531,406	\$236,913	\$194,061	\$377,539	\$976,292	84%
Anthropology	\$128,636	\$247,619	\$640,469	\$184,099	\$340,777	165%
Applied Math Prog.	\$1,762,501	\$1,674,566	\$1,739,067	\$2,377,881	\$2,382,462	35%
APS - Astrophysical and Planetary Sci	\$40,500	\$84,345	\$66,225	\$158,733	\$0	-100%
APS - CASA	\$6,059,411	\$4,958,176	\$6,084,479	\$6,227,370	\$8,298,722	37%
Asian Studies, Center for	\$0	\$0	\$0	\$1,831,802	\$1,041,410	-
Chemistry & Biochemistry	\$16,225,198	\$12,675,717	\$10,278,436	\$11,805,323	\$14,495,159	-11%
East Asian Languages & Civilization	\$2,467,717	\$1,303,010	\$1,345,000	\$155,235	\$221,722	-91%
Ecology & Evolutionary Biology	\$1,967,973	\$1,413,940	\$2,199,098	\$1,758,314	\$2,193,892	11%
Economics	\$401,059	\$176,494	\$334,175	\$36,000	\$373,592	-7%
English	\$40,000	\$98,531	\$7,451	\$50,000	\$40,000	0%
Geography	\$679,714	\$364,122	\$241,041	\$530,436	\$446,706	-34%
Geological Sciences	\$1,280,835	\$1,040,539	\$1,110,200	\$1,510,871	\$1,240,056	-3%
History	\$166,500	\$172,099	\$42,000	\$73,500	\$46,000	-72%
Integrated Plasma Studies, Center for (CIPS)	\$1,282,614	\$1,279,811	\$1,662,933	\$1,231,556	\$1,546,191	21%
Integrative Physiology	\$6,611,768	\$4,627,958	\$5,257,356	\$5,140,777	\$4,812,273	-27%
Linguistics	\$222,750	\$561,162	\$7,451	\$450,000	\$64,387	-71%
Mathematics	\$144,117	\$109,071	\$74,253	\$354,714	\$100,000	-31%
MCD Biology	\$16,170,965	\$11,091,640	\$13,518,798	\$13,998,434	\$11,041,759	-32%
Physics	\$8,078,837	\$8,190,715	\$7,496,427	\$8,087,501	\$7,602,726	-6%
Political Science	\$8,400	\$130,000	\$211,450	\$318,360	\$247,065	2841%
Prog. Atmos/Oceanic Science	\$803,946	\$610,221	\$544,148	\$475,706	\$891,707	11%
Psychology	\$8,040,311	\$8,672,752	\$9,684,987	\$9,301,199	\$10,575,924	32%
Speech/Lang/Hearing Sci.	\$2,488,469	\$1,962,541	\$1,838,115	\$1,451,514	\$1,075,319	-57%
Other	\$254,866	\$199,210	\$293,530	\$66,910	\$91,652	-64%
College Engineering & Applied Science	\$42,803,604	\$39,091,236	\$34,774,891	\$40,298,485	\$42,858,589	0%
Aerospace Engineering Sciences	\$14,591,946	\$11,110,137	\$9,280,807	\$7,267,148	\$10,260,708	-30%
Chemical & Biological Engineering	\$6,417,201	\$7,660,882	\$5,868,664	\$8,670,080	\$9,400,384	46%
Civil, Environmental & Arch Engineering	\$5,681,932	\$4,605,876	\$4,350,471	\$4,258,045	\$5,268,265	-7%
Computer Science	\$4,720,827	\$5,162,224	\$4,982,735	\$4,582,132	\$2,997,834	-36%
Electrical & Computer Engineering	\$4,734,379	\$4,679,664	\$4,783,158	\$7,806,549	\$6,073,429	28%
Mechanical Engineering	\$3,970,403	\$4,119,919	\$4,246,531	\$6,261,760	\$7,600,980	91%
Administration	\$35,000	\$19,000	\$0	\$19,000	\$272,745	679%
BP Center for Visualization	\$554,896	\$363,975	\$199,975	\$0	\$0	-100%
Colorado Space Grant Consortium	\$872,559	\$746,969	\$441,211	\$761,659	\$984,244	13%
Integrated Teaching & Learning Lab (ITLL)	\$634,403	\$502,590	\$621,339	\$672,112	\$0	-100%
Interdisc. Telecom. Program	\$590,058	\$120,000	\$0	\$0	\$0	-100%
Graduate School & Research Institutes	\$130,808,873	\$144,162,227	\$144,221,654	\$144,928,047	\$152,259,010	16%
Graduate School	\$3,564,249	\$1,882,819	\$4,032,443	\$855,840	\$2,395,455	-33%
Museum	\$435,857	\$1,009,328	\$406,372	\$373,042	\$491,833	13%
Humanities and the Arts, Center for	\$10,000	\$0	\$0	\$0	\$0	-100%
Limb Atmospheric Sounding, Center for	\$3,976,000	\$5,380,748	\$4,002,587	\$2,441,598	\$5,207,402	31%
Coop Inst. For Res in Environmental Sci	\$40,274,272	\$41,040,700	\$40,399,893	\$47,783,156	\$53,118,064	32%
Institute for Behavioral Genetics	\$11,738,638	\$10,925,336	\$12,457,152	\$9,063,612	\$8,274,481	-30%
Institute of Arctic & Alpine Research	\$6,319,738	\$5,095,592	\$5,669,779	\$4,671,963	\$7,335,368	16%
Institute of Behavioral Sciences	\$5,078,080	\$5,707,771	\$7,748,380	\$8,680,107	\$4,616,779	-9%
Institute of Cognitive Science	\$4,274,322	\$6,159,007	\$3,744,484	\$5,028,329	\$8,334,041	95%
JILA	\$13,765,277	\$17,507,277	\$22,908,958	\$17,405,857	\$22,298,318	62%
Lab for Atmospheric & Space Physics	\$41,372,440	\$49,453,649	\$42,851,606	\$48,624,543	\$40,187,269	-3%
Other	\$12,000	\$107,500	\$38,960	\$53,222	\$0	-100%
Total	\$259,688,721	\$257,599,995	\$256,452,911	\$266,088,557	\$280,009,344	8%

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

Academic Unit	2004	2005	2006	2007	2008	% Change 2004 - 2008
Vice Chancellor Academic Affairs	\$3,195,560	\$1,260,014	\$4,844,177	\$1,083,981	\$1,936,886	-39%
Vice Chancellor Student Success	\$118,768	\$165,536	\$99,619	\$84,693	\$59,088	-50%
Vice Chancellor Administration & Finance	\$0	\$0	\$20,000	\$0	\$142,000	-
College of Business	\$222,874	\$86,120	\$277,051	\$130,425	\$120,425	-46%
College of Engineering & Applied Science	\$337,687	\$5,139,644	\$965,452	\$2,117,779	\$1,889,378	460%
College of Letters, Arts & Sciences	\$1,094,663	\$1,390,115	\$2,916,228	\$2,455,399	\$3,027,802	177%
College of Education	\$1,066,246	\$258,513	\$939,245	\$1,529,594	\$1,295,560	22%
School of Public Affairs	\$0	\$0	\$11,877	\$35,498	\$0	-
BethEl Nursing & Health Sciences	\$218,263	\$110,600	\$209,810	\$467,299	\$480,194	120%
Library	\$0	\$0	\$0	\$0	\$0	-
Joint Depts/Other	\$0	\$294,948	\$0	\$0	\$221,384	-
Total	\$6,254,061	\$8,705,490	\$10,283,459	\$7,904,668	\$9,172,717	47%

**Table 1.5 University of Colorado Denver
5-Year History of Sponsored Research Awards**

Academic Unit	2004	2005	2006	2007	2008	% Change 2004 to 2008
Office of the Chancellor	\$ 8,975,496	\$ 773,482	\$ 3,952,871	\$ 1,758,698	\$ 7,076,162	-21%
Academic and Student Affairs/Chancellor	\$ 4,234,256	\$ 5,757,133	\$ 5,098,978	\$ 6,117,663	\$ 5,097,421	-
Financial Services	\$ -	\$ 68,893	\$ -	\$ -	\$ -	-
Library	\$ -	\$ 4,616	\$ 3,484	\$ -	\$ -	-
College of Architecture and Planning	\$ 401,431	\$ 691,338	\$ 953,580	\$ 842,421	\$ 1,113,164	177%
College of Arts and Media	\$ -	\$ 50,000	\$ 25,000	\$ 118,118	\$ 148,084	-
The Business School	\$ 3,464,148	\$ 793,528	\$ 61,595	\$ -	\$ -	-
School of Education and Human Development	\$ 9,496,460	\$ 4,650,286	\$ 8,155,109	\$ 4,809,094	\$ 4,190,283	-56%
College of Engineering and Applied Science	\$ 1,295,613	\$ 952,261	\$ 1,062,592	\$ 1,276,757	\$ 1,251,011	-3%
College of Liberal Arts and Sciences	\$ 2,602,766	\$ 4,417,341	\$ 5,965,599	\$ 5,303,258	\$ 6,276,007	141%
School of Public Affairs	\$ 1,203,801	\$ 1,179,496	\$ 2,152,159	\$ 1,343,077	\$ 815,417	-32%
School of Medicine	\$ 234,820,378	\$ 274,755,805	\$ 263,539,705	\$ 266,941,770	\$ 263,246,444	12%
Dean, School of Medicine	\$ 7,188,306	\$ 13,912,160	\$ 10,957,744	\$ 11,210,503	\$ 13,750,921	91%
Anesthesiology	\$ 1,625,092	\$ 3,422,358	\$ 2,667,203	\$ 2,903,432	\$ 3,255,640	100%
Biochem/Biophysics/Gen.	\$ 6,344,284	\$ 9,080,738	\$ 7,811,588	\$ 5,760,517	\$ 5,833,123	-8%
Cellular & Structural Bio.	\$ 4,988,506	\$ 6,496,344	\$ 3,589,431	\$ 5,103,276	\$ 5,359,540	7%
Dermatology	\$ 1,272,404	\$ 1,437,452	\$ 2,155,363	\$ 1,432,312	\$ 4,488,073	253%
Family Medicine	\$ 3,534,199	\$ 2,994,586	\$ 4,049,207	\$ 3,657,185	\$ 6,000,417	70%
Human Medical Genetics Program	\$ -	\$ -	\$ 831,452	\$ 480,191	\$ 469,560	-
Immunology	\$ 5,093,720	\$ 5,333,029	\$ 3,862,464	\$ 3,499,599	\$ 5,131,678	1%
Medicine	\$ 70,691,175	\$ 74,013,521	\$ 84,542,799	\$ 82,094,485	\$ 69,150,379	-2%
Microbiology	\$ 6,661,196	\$ 6,973,238	\$ 6,853,493	\$ 8,142,172	\$ 5,554,029	-17%
Neurology	\$ 5,230,625	\$ 5,733,228	\$ 4,583,182	\$ 6,787,721	\$ 7,337,279	40%
Neuro Surgery	\$ 1,078,040	\$ -	\$ 1,789,489	\$ 107,233	\$ 509,839	-53%
Obstetrics/Gynecology	\$ 2,393,278	\$ 2,649,457	\$ 1,779,848	\$ 3,360,843	\$ 3,532,159	48%
Ophthalmology	\$ 588,852	\$ -	\$ 286,560	\$ 161,105	\$ 1,130,035	92%
Orthopedics	\$ 502,079	\$ -	\$ 1,060,757	\$ 1,932,663	\$ 2,323,470	363%
Otolaryngology	\$ 480,602	\$ 2,882,260	\$ 446,582	\$ 1,177,372	\$ 283,090	-41%
Pathology	\$ 6,482,002	\$ 5,116,099	\$ 3,881,583	\$ 6,411,595	\$ 5,265,964	-19%
Pediatrics	\$ 40,330,094	\$ 46,010,782	\$ 40,640,768	\$ 45,783,367	\$ 45,575,102	13%
Pharmacology	\$ 12,473,645	\$ 15,525,182	\$ 12,126,409	\$ 12,910,422	\$ 13,515,181	8%
Physiology	\$ 3,690,214	\$ 4,040,773	\$ 5,154,521	\$ 5,368,579	\$ 4,457,621	21%
Preventive Medicine	\$ 10,333,790	\$ 9,861,476	\$ 10,598,553	\$ 7,588,994	\$ 10,014,773	-3%
Psychiatry	\$ 35,899,028	\$ 43,097,186	\$ 39,958,156	\$ 41,227,078	\$ 40,763,456	14%
Radiation Oncology	\$ 551,104	\$ -	\$ 260,599	\$ 685,467	\$ 976,543	77%
Radiology	\$ 1,048,489	\$ 1,049,187	\$ 2,150,950	\$ 334,037	\$ 1,514,224	44%
Rehabilitation Medicine	\$ 2,366,410	\$ 3,384,402	\$ 4,338,292	\$ 3,236,939	\$ 3,210,196	36%
Surgery	\$ 3,194,442	\$ 6,366,362	\$ 7,162,712	\$ 5,584,683	\$ 3,638,469	14%
Other	\$ 778,802	\$ 5,375,985	\$ -	\$ -	\$ 205,685	-74%
School of Medicine Institutes and Centers	\$ 35,640,602	\$ 42,171,675	\$ 56,490,667	\$ 56,598,172	\$ 63,107,280	77%
School of Dentistry	\$ 3,826,599	\$ 6,215,997	\$ 4,303,784	\$ 2,843,824	\$ 4,395,040	15%
School of Nursing	\$ 4,484,223	\$ 3,467,342	\$ 3,016,969	\$ 2,515,059	\$ 2,109,903	-53%
School of Pharmacy	\$ 12,059,814	\$ 18,044,657	\$ 18,518,592	\$ 12,953,231	\$ 12,697,074	5%
Total	\$ 322,505,587	\$ 363,993,850	\$ 373,300,684	\$ 363,421,142	\$ 371,523,290	15%

**Section II: Fiscal Year 2007 University of Colorado R&D Expenditures
as reported to and ranked by the National Science Foundation (NSF)**

**Table 2.1 National Science Foundation Research Expenditure Rankings
 Federally Financed R&D Expenditures in Science and Engineering Fields, FY 2007
 Top 20 Universities and Colleges**

Public Universities	Rank	Federal Expenditures [in thousands]	All Universities	Rank	Federal Expenditures [in thousands]
U. Washington	1	\$620,375	Johns Hopkins U.	1	\$1,362,836
U. Michigan all campuses	2	\$577,201	U. Washington	2	\$620,375
U. California, Los Angeles	3	\$488,846	U. Michigan all campuses	3	\$577,201
U. California, San Diego	4	\$475,708	Stanford U.	4	\$534,787
U. Wisconsin, Madison	5	\$469,076	U. California, Los Angeles	5	\$488,846
U. California, San Francisco	6	\$467,402	Massachusetts Institute of Technology	6	\$476,318
U. Colorado all campuses	7	\$442,303	U. California, San Diego	7	\$475,708
U. Pittsburgh all campuses	8	\$441,357	U. Wisconsin Madison	8	\$469,076
Pennsylvania State U. all campuses	9	\$370,789	U. California, San Francisco	9	\$467,402
U. North Carolina Chapel Hill	10	\$346,672	Columbia U.	10	\$459,748
U. Minnesota all campuses	11	\$337,966	Duke U.	11	\$459,122
Ohio State U. all campuses	12	\$313,242	U. Pennsylvania	12	\$449,687
U. Texas Austin	13	\$289,331	U. Colorado all campuses	13	\$442,303
U. Arizona	14	\$269,941	U. Pittsburgh all campuses	14	\$441,357
U. Alabama Birmingham, The	15	\$269,006	Washington U. St. Louis	15	\$424,451
Georgia Inst. of Technology all campuses	16	\$260,230	Harvard U.	16	\$392,103
U. California, Davis	17	\$256,944	Pennsylvania State U. all campuses	17	\$370,789
U. of Cincinnati all campuses	18	\$253,833	Cornell U. all campuses	18	\$367,094
U. Illinois Urbana-Champaign	19	\$253,612	U. Southern California	19	\$355,084
U. California, Berkeley	20	\$251,043	Yale U.	20	\$349,027

Source: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.
http://www.nsf.gov/statistics/nsf09303/content.cfm?pub_id=3871&id=2

**Table 2.2 Federally Financed R&D Expenditures at Public Universities and Colleges
Top 20 Ranked by Science and Engineering Field, FY 2007**

(includes only institutions among Top 150 in total federal R&D expenditures)
[Dollars in Thousands]

Overall		
1	U. Washington	\$620,375
2	U. Michigan all campuses	\$577,201
3	U. California, Los Angeles	\$488,846
4	U. California, San Diego	\$475,708
5	U. Wisconsin, Madison	\$469,076
6	U. California, San Francisco	\$467,402
7	U. Colorado all campuses	\$442,303
8	U. Pittsburgh all campuses	\$441,357
9	Pennsylvania State U. all campuses	\$370,789
10	U. North Carolina Chapel Hill	\$346,672
11	U. Minnesota all campuses	\$337,966
12	Ohio State U. all campuses	\$313,242
13	U. Texas Austin	\$289,331
14	U. Arizona	\$269,941
15	U. Alabama Birmingham, The	\$269,006
16	Georgia Institute of Technology all campuses	\$260,230
17	U. California, Davis	\$256,944
18	U. of Cincinnati (All)	\$253,833
19	U. Illinois Urbana-Champaign	\$253,612
20	U. California, Berkeley	\$251,043

Environmental Sciences		
1	U. Colorado all campuses	\$ 81,691
2	Colorado State University	\$ 81,028
3	U. Washington	\$ 79,664
4	U. California, San Diego	\$ 75,906
5	Texas A&M U.	\$ 75,613
6	U. Wisconsin Madison	\$ 64,261
7	U. Hawaii Manoa	\$ 55,290
8	U. Alaska Fairbanks all campuses	\$ 55,250
9	U. New Hampshire	\$ 47,719
10	Oregon State U.	\$ 32,165
11	Desert Research Inst. - NV System of Higher Ed	\$ 29,163
12	Pennsylvania State U. all campuses	\$ 25,479
13	U. Maryland Baltimore County	\$ 23,856
14	U. Rhode Island	\$ 21,693
15	U. South Florida	\$ 19,237
16	U. South Carolina all campuses	\$ 17,644
17	C. of William and Mary all campuses	\$ 17,215
18	U. Nevada, Las Vegas	\$ 17,095
19	Naval Postgraduate School	\$ 16,183
20	U. Illinois Urbana-Champaign	\$ 15,033

Psychology		
1	Pennsylvania State U. all campuses	\$15,596
2	U. Colorado all campuses	\$12,462
3	U. Connecticut all campuses	\$11,876
4	Florida State U.	\$10,492
5	Arizona State U.	\$9,289
6	U. California, Los Angeles	\$8,913
7	U. Washington	\$8,688
8	U. South Carolina all campuses	\$8,623
9	U. Nebraska all campuses	\$8,408
10	U. Houston	\$8,343
11	U. Texas Austin	\$8,255
12	U. Illinois Urbana-Champaign	\$8,102
13	U. Minnesota all campuses	\$7,925
14	San Jose State U.	\$7,879
15	U. Georgia	\$7,817
16	U. Texas M. D. Anderson Cancer Center	\$7,791
17	Indiana U. all campuses	\$7,704
18	U. Wisconsin Madison	\$7,305
19	U. Michigan all campuses	\$7,250
20	U. New Mexico main campus	\$7,220

Physical Sciences		
1	U. Arizona	\$87,317
2	U. California, Berkeley	\$63,593
3	U. Texas Austin	\$61,858
4	U. Colorado all campuses	\$57,541
5	U. California, Los Angeles	\$49,423
6	U. Maryland College Park	\$45,685
7	U. California, San Diego	\$39,862
8	U. Illinois Urbana-Champaign	\$38,525
9	Michigan State U.	\$38,216
10	U. Wisconsin Madison	\$37,233
11	Pennsylvania State U. all campuses	\$33,865
12	Florida State U.	\$31,823
13	U. Washington	\$29,485
14	U. Hawaii Manoa	\$27,071
15	U. Michigan all campuses	\$26,753
16	U. California, Santa Barbara	\$25,104
17	Rutgers, The State U. New Jersey all	
18	U. Florida	\$21,537
19	U. North Carolina Chapel Hill	\$20,427
20	U. California, Irvine	\$19,920

**Table 2.2 (cont.) Federally Financed R&D Expenditures at Public Universities and Colleges
Top 20 Ranked by Science and Engineering Field, FY 2007**

(includes only institutions among Top 150 in total federal R&D expenditures)
[Dollars in Thousands]

Life Sciences		
1	U. California, San Francisco	\$451,445
2	U. Washington	\$427,748
3	U. Pittsburgh all campuses	\$389,116
4	U. California, Los Angeles	\$368,103
5	U. Michigan all campuses	\$351,752
6	U. California, San Diego	\$272,820
7	U. North Carolina Chapel Hill	\$272,789
8	U. Wisconsin Madison	\$268,017
9	U. Alabama Birmingham, The	\$253,380
10	U. Minnesota all campuses	\$248,605
11	U. Colorado all campuses	\$243,334
12	U. Cincinnati all campuses	\$229,991
13	Oregon Health & Science U.	\$210,117
14	U. California, Davis	\$196,216
15	U. Texas Southwestern Medical Ctr. Dallas	\$191,687
16	Ohio State U. all campuses	\$180,247
17	U. Iowa	\$179,500
18	U. Illinois Chicago	\$171,862
19	U. Texas M. D. Anderson Cancer Center	\$166,743
20	U. MD Baltimore	\$164,211

Social Sciences		
1	U. Michigan all campuses	\$58,308
2	U. Maryland College Park	\$51,032
3	Ohio State U. all campuses	\$31,357
4	U. North Carolina Chapel Hill	\$23,387
5	U. Wisconsin Madison	\$20,968
6	U. Texas Austin	\$14,156
7	Michigan State U.	\$12,567
8	U. Minnesota all campuses	\$11,346
9	Pennsylvania State U. all campuses	\$10,636
10	Iowa State U.	\$10,620
11	Arizona State U.	\$9,186
12	U. Southern Maine	\$8,533
13	U. California, Berkeley	\$8,094
14	U. Washington	\$7,705
15	U. Arizona	\$7,571
16	North Dakota State U. all campuses	\$7,158
17	Florida State U.	\$6,492
18	Rutgers, The State U. New Jersey all campuses	\$6,429
19	U. of the Virgin Islands	\$6,278
20	U. California, Los Angeles	\$5,968
21	U. Colorado all campuses	\$5,630

Math & Computer Science		
1	U. Texas Austin	\$54,205
2	U. Illinois Urbana-Champaign	\$52,806
3	U. California, San Diego	\$39,414
4	Pennsylvania State U. all campuses	\$39,097
5	Georgia Institute of Technology all campuses	\$34,874
6	U. Hawaii Manoa	\$33,740
7	U. Maryland College Park	\$24,547
8	Ohio State U. all campuses	\$19,908
9	Oregon Health & Science U.	\$17,324
10	U. California, Los Angeles	\$16,057
11	U. Minnesota all campuses	\$15,728
12	U. Wisconsin Madison	\$15,092
13	Naval Postgraduate School	\$12,413
14	U. Utah	\$12,149
15	North Carolina State U.	\$11,970
16	U. North Carolina Chapel Hill	\$11,023
17	U. Massachusetts Amherst	\$11,005
18	Texas A&M U.	\$10,191
19	Arizona State U.	\$9,702
20	Rutgers, The State U. New Jersey all campuses	\$9,613
↓		
25	U. Colorado all campuses	\$8,836

Engineering		
1	Georgia Institute of Technology all campuses	\$180,240
2	Pennsylvania State U. all campuses	\$150,402
3	U. Michigan all campuses	\$115,360
4	U. Texas Austin	\$95,189
5	U. Illinois Urbana-Champaign	\$73,746
6	New Mexico State U. main campus	\$64,294
7	U. Washington	\$60,997
8	U. Wisconsin Madison	\$56,200
9	Virginia Polytechnic Institute and State U.	\$54,422
10	U. Maryland College Park	\$54,231
11	U. California, Berkeley	\$53,721
12	Utah State U.	\$52,907
13	Texas A&M U.	\$52,215
14	U. California, Santa Barbara	\$48,914
15	Ohio State U. all campuses	\$46,179
16	U. Florida	\$44,468
17	New Mexico Inst. of Mining and Technology	\$43,690
18	North Carolina State U.	\$40,967
19	Mississippi State U.	\$38,912
20	U. California, San Diego	\$37,232
↓		
22	U. Colorado all campuses	\$31,985

Source: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.
http://www.nsf.gov/statistics/nsf09303/content.cfm?pub_id=3871&id=2

Table 2.3 Total R&D Expenditures in Science and Engineering Fields by Funding Source
Top 100 Public Universities and Colleges Ranked by FY 2007 Total Expenditures
[Dollars in Thousands]

Institution	Rank	Industry		Federal		State		Institutional		Other Sources		Total Dollars
		Dollars	% of Total	Dollars	% of Total	Dollars	% of Total	Dollars	% of Total	Dollars	% of Total	
U. California, San Francisco	1	45,659	5.4%	467,402	55.5%	24,578	2.9%	145,705	17.3%	159,496	18.9%	842,840
U. Wisconsin Madison	2	25,090	3.0%	469,076	55.8%	32,780	3.9%	238,934	28.4%	74,792	8.9%	840,672
U. California, Los Angeles	3	39,731	4.8%	488,846	59.4%	12,981	1.6%	161,738	19.7%	119,787	14.6%	823,083
U. Michigan all campuses	4	36,282	4.5%	577,201	71.4%	6,850	0.8%	145,970	18.0%	42,428	5.2%	808,731
U. California, San Diego	5	44,768	5.6%	475,708	59.5%	26,072	3.3%	132,658	16.6%	119,690	15.0%	798,896
U. Washington	6	63,560	8.4%	620,375	82.0%	10,692	1.4%	41,650	5.5%	20,510	2.7%	756,787
Ohio State U. all campuses	7	142,177	19.7%	313,242	43.5%	112,272	15.6%	102,158	14.2%	50,357	7.0%	720,206
Pennsylvania State U. all campuses	8	93,535	14.3%	370,789	56.9%	69,662	10.7%	116,041	17.8%	2,117	0.3%	652,144
U. Minnesota all campuses	9	29,432	4.7%	337,966	54.1%	56,877	9.1%	105,379	16.9%	94,495	15.1%	624,149
U. California, Davis	10	26,159	4.4%	256,994	42.8%	49,921	8.3%	201,084	33.5%	66,350	11.0%	600,508
U. Florida	11	34,124	5.8%	240,819	40.6%	100,792	17.0%	184,855	31.2%	32,245	5.4%	592,835
U. Pittsburgh all campuses	12	10,153	1.8%	441,357	79.0%	10,561	1.9%	69,836	12.5%	26,659	4.8%	558,566
U. California, Berkeley	13	25,361	4.6%	251,043	45.4%	41,298	7.5%	151,941	27.5%	82,722	15.0%	552,365
Texas A&M U.	14	36,465	6.7%	228,363	42.0%	121,498	22.3%	146,757	27.0%	10,805	2.0%	543,888
U. Arizona	15	27,566	5.2%	269,941	50.8%	7,603	1.4%	190,406	35.8%	36,237	6.8%	531,753
U. Colorado all campuses	16	14,498	2.7%	442,303	83.8%	5,342	1.0%	40,973	7.8%	24,471	4.6%	527,587
U. Texas M. D. Anderson Cancer Center	17	34,308	6.9%	190,508	38.4%	131,884	26.6%	78,752	15.9%	61,087	12.3%	496,539
U. North Carolina Chapel Hill	18	8,670	1.8%	346,672	72.6%	19,120	4.0%	102,769	21.5%	0	0.0%	477,231
U. Illinois Urbana-Champaign	19	12,333	2.6%	253,612	53.5%	36,622	7.7%	155,044	32.7%	16,279	3.4%	473,890
Georgia Institute of Technology all campuses	20	45,651	9.7%	260,230	55.1%	12,915	2.7%	152,356	32.2%	1,439	0.3%	472,591
U. Texas Austin	21	35,593	8.0%	289,331	64.8%	22,120	5.0%	76,412	17.1%	23,309	5.2%	446,765
Purdue U. all campuses	22	55,979	13.5%	165,637	39.9%	49,530	11.9%	142,272	34.3%	1,754	0.4%	415,172
U. Cincinnati all campuses	23	5,554	1.5%	253,833	67.5%	19,225	5.1%	77,668	20.7%	19,572	5.2%	375,852
Louisiana State U. all campuses	24	14,861	4.0%	145,650	39.1%	85,405	22.9%	99,381	26.7%	27,124	7.3%	372,421
Virginia Polytechnic Institute and State U.	25	17,110	4.7%	128,796	35.1%	110,292	30.1%	92,708	25.3%	18,054	4.9%	366,960
U. Iowa	26	16,382	4.5%	222,944	61.4%	10,355	2.9%	89,661	24.7%	23,901	6.6%	363,243
Michigan State U.	27	12,255	3.4%	170,350	47.2%	42,524	11.8%	123,704	34.3%	12,019	3.3%	360,852
U. Maryland College Park	28	10,869	3.0%	218,973	60.9%	20,663	5.7%	99,244	27.6%	10,011	2.8%	359,760
U. Maryland Baltimore	29	31,968	8.9%	164,211	45.8%	19,337	5.4%	90,550	25.2%	52,785	14.7%	358,851
U. Alabama Birmingham, The	30	8,676	2.5%	269,006	76.5%	319	0.1%	54,349	15.5%	19,107	5.4%	351,457
U. Illinois Chicago	31	9,187	2.7%	208,881	61.0%	9,165	2.7%	92,950	27.1%	22,238	6.5%	342,421
U. Texas Southwestern Medical Center Dallas	32	19,036	5.6%	191,687	56.2%	37,687	11.0%	11,678	3.4%	81,002	23.7%	341,090
U. Nebraska all campuses	33	14,093	4.2%	138,338	41.1%	7,392	2.2%	147,556	43.9%	29,089	8.6%	336,468
U. Georgia	34	4,064	1.2%	103,256	31.0%	41,851	12.6%	172,772	51.9%	10,669	3.2%	332,612
North Carolina State U.	35	41,585	12.5%	131,056	39.5%	88,606	26.7%	70,022	21.1%	393	0.1%	331,662
U. Kentucky all campuses	36	9,562	2.9%	154,688	46.6%	43,404	13.1%	96,130	29.0%	27,822	8.4%	331,606
SUNY Buffalo all campuses	37	21,281	6.8%	148,989	47.3%	14,076	4.5%	94,567	30.0%	35,924	11.4%	314,837
Rutgers, The State U. New Jersey all campuses	38	9,599	3.1%	135,933	43.6%	33,205	10.7%	99,216	31.8%	33,659	10.8%	311,612
U. California Irvine	39	16,564	5.4%	169,912	54.9%	10,238	3.3%	66,674	21.5%	46,166	14.9%	309,554
SUNY Albany	40	27,704	9.0%	105,776	34.2%	67,074	21.7%	91,850	29.7%	16,817	5.4%	309,221
Indiana U. all campuses	41	8,791	3.0%	165,934	56.3%	5,442	1.8%	50,565	17.1%	64,249	21.8%	294,981
Colorado State U.	42	14,681	5.1%	210,746	73.0%	12,327	4.3%	42,673	14.8%	8,070	2.8%	288,497
Oregon Health & Science U.	43	14,267	5.0%	227,441	79.1%	5,154	1.8%	21,846	7.6%	18,722	6.5%	287,430
U. South Florida	44	15,680	5.8%	158,442	58.1%	31,239	11.5%	64,165	23.5%	3,135	1.1%	272,661
SUNY Stony Brook all campuses	45	4,845	1.8%	111,241	41.5%	40,255	15.0%	103,122	38.4%	8,819	3.3%	268,282
U. Hawaii Manoa	46	21,937	8.2%	208,196	78.1%	15,425	5.8%	16,343	6.1%	4,546	1.7%	266,447
U. Utah	47	10,802	4.4%	174,719	70.5%	2,085	0.8%	47,613	19.2%	12,575	5.1%	247,794
U. Tennessee all campuses	48	16,839	6.9%	126,998	52.2%	43,895	18.1%	43,402	17.8%	12,050	5.0%	243,184
U. of Medicine and Dentistry New Jersey	49	17,395	7.3%	126,101	53.2%	14,640	6.2%	53,969	22.8%	24,729	10.4%	236,834
Wayne State U.	50	10,992	4.7%	114,364	48.6%	12,764	5.4%	79,440	33.8%	17,626	7.5%	235,186

Table 2.3 (cont.) Total R&D Expenditures in Science and Engineering Fields by Funding Source
Top 100 Public Universities and Colleges Ranked by FY 2007 Total Expenditures
[Dollars in Thousands]

Institution	Rank	Industry		Federal		State		Institutional		Other Sources		Total Dollars
		Dollars	% of Total	Dollars	% of Total	Dollars	% of Total	Dollars	% of Total	Dollars	% of Total	
U. Virginia all campuses	51	3,891	1.7%	198,274	86.1%	477	0.2%	16,986	7.4%	10,553	4.6%	230,181
U. Missouri-Columbia	52	1,937	0.8%	108,328	47.4%	18,714	8.2%	91,203	39.9%	8,472	3.7%	228,654
U. Connecticut all campuses	53	8,233	3.7%	123,513	55.0%	9,740	4.3%	67,443	30.0%	15,750	7.0%	224,679
Arizona State U.	54	16,205	7.2%	114,632	51.1%	24,254	10.8%	63,562	28.3%	5,699	2.5%	224,352
Iowa State U.	55	11,338	5.2%	97,112	44.7%	45,581	21.0%	57,924	26.7%	5,203	2.4%	217,158
Clemson U.	56	12,424	5.9%	53,905	25.5%	40,140	19.0%	98,858	46.7%	6,433	3.0%	211,760
Washington State U.	57	7,768	3.7%	78,505	37.4%	34,476	16.4%	80,457	38.3%	8,804	4.2%	210,010
Mississippi State U.	58	7,496	3.6%	106,662	51.7%	29,481	14.3%	62,568	30.3%	0	0.0%	206,207
U. Kansas all campuses	59	3,318	1.6%	115,670	57.2%	4,573	2.3%	70,095	34.7%	8,473	4.2%	202,129
U. Texas Health Science Center Houston	60	7,861	4.1%	131,879	68.8%	13,256	6.9%	19,591	10.2%	19,137	10.0%	191,724
U. California, Santa Barbara	61	12,941	6.8%	111,848	58.5%	3,678	1.9%	35,249	18.4%	27,488	14.4%	191,204
Florida State U.	62	1,123	0.6%	113,681	60.0%	10,767	5.7%	56,317	29.7%	7,677	4.0%	189,565
Oregon State U.	63	3,274	1.7%	110,267	58.2%	38,133	20.1%	34,661	18.3%	3,033	1.6%	189,368
Medical U. South Carolina	64	11,935	6.5%	101,402	54.9%	1,398	0.8%	65,003	35.2%	4,886	2.6%	184,624
U. Texas Medical Branch	65	6,659	3.6%	118,173	64.4%	7,425	4.0%	30,810	16.8%	20,425	11.1%	183,492
U. New Mexico main campus	66	5,375	3.0%	123,039	69.3%	2,141	1.2%	43,386	24.5%	3,489	2.0%	177,430
U. Oklahoma all campuses	67	9,964	5.6%	86,422	48.9%	15,548	8.8%	51,091	28.9%	13,800	7.8%	176,825
U. Texas Health Science Center San Antonio	68	8,622	5.4%	95,610	59.7%	5,846	3.6%	36,102	22.5%	14,102	8.8%	160,282
U. South Carolina all campuses	69	3,166	2.0%	89,000	56.0%	3,722	2.3%	52,600	33.1%	10,369	6.5%	158,857
U. Massachusetts Worcester	70	16,266	10.3%	131,226	83.3%	0	0.0%	1,385	0.9%	8,592	5.5%	157,469
U. Alaska Fairbanks all campuses	71	9,484	6.2%	99,588	65.6%	1,231	0.8%	41,479	27.3%	0	0.0%	151,782
U. Louisville	72	2,297	1.5%	76,479	50.6%	11,437	7.6%	41,223	27.3%	19,790	13.1%	151,226
New Mexico State U. main campus	73	887	0.6%	100,773	68.0%	16,018	10.8%	29,187	19.7%	1,255	0.8%	148,120
U. Massachusetts Amherst	74	5,195	3.7%	71,974	50.9%	5,638	4.0%	48,755	34.5%	9,789	6.9%	141,351
Auburn U. all campuses	75	4,536	3.2%	54,949	39.1%	2,236	1.6%	76,470	54.4%	2,438	1.7%	140,629
Utah State U.	76	3,319	2.4%	89,948	65.1%	22,303	16.2%	18,438	13.4%	4,057	2.9%	138,065
Virginia Commonwealth U.	77	9,782	7.3%	90,137	67.0%	7,989	5.9%	20,915	15.6%	5,630	4.2%	134,453
West Virginia U.	78	5,331	4.0%	65,699	49.2%	4,423	3.3%	57,310	42.9%	827	0.6%	133,590
U. California, Riverside	79	5,692	4.4%	56,129	43.8%	4,948	3.9%	49,140	38.3%	12,334	9.6%	128,243
U. California, Santa Cruz	80	3,870	3.1%	68,204	54.6%	4,058	3.3%	31,980	25.6%	16,744	13.4%	124,856
Kansas State U.	81	2,208	1.8%	47,654	38.5%	38,223	30.8%	28,555	23.0%	7,260	5.9%	123,900
U. California Office of the President	82	596	0.5%	256	0.2%	45,673	38.4%	63,831	53.7%	8,554	7.2%	118,910
U. Delaware	83	3,950	3.3%	82,539	69.8%	5,363	4.5%	22,402	18.9%	3,991	3.4%	118,245
Montana State U. Bozeman	84	4,989	4.3%	75,765	64.8%	19,704	16.8%	16,541	14.1%	0	0.0%	116,999
U. New Hampshire	85	6,105	5.3%	81,027	70.9%	4,469	3.9%	16,362	14.3%	6,265	5.5%	114,228
U. Vermont	86	6,000	5.3%	90,049	79.6%	381	0.3%	16,102	14.2%	663	0.6%	113,195
U. Central Florida	87	17,619	15.8%	49,359	44.2%	4,732	4.2%	39,885	35.7%	0	0.0%	111,595
U. Arkansas for Medical Sciences	88	4,682	4.3%	60,836	56.0%	7,105	6.5%	21,584	19.9%	14,344	13.2%	108,551
U. Mississippi all campuses	89	1,882	1.7%	77,526	71.6%	432	0.4%	23,116	21.4%	5,288	4.9%	108,244
North Dakota State U. all campuses	90	862	0.8%	45,475	42.8%	32,791	30.9%	23,183	21.8%	3,897	3.7%	106,208
Oklahoma State U. all campuses	91	4,227	4.2%	36,958	36.6%	27,074	26.8%	32,069	31.7%	784	0.8%	101,112
U. Arkansas main campus	92	7,270	7.2%	37,016	36.6%	39,754	39.3%	15,744	15.6%	1,325	1.3%	101,109
U. Maine	93	2,609	2.7%	41,963	43.7%	5,260	5.5%	44,127	45.9%	2,176	2.3%	96,135
U. Nevada, Reno	94	1,487	1.6%	62,713	65.5%	3,310	3.5%	27,717	28.9%	582	0.6%	95,809
Florida International U.	95	5,238	5.8%	52,141	57.4%	6,044	6.6%	27,480	30.2%	0	0.0%	90,903
New Jersey Institute of Technology	96	965	1.1%	41,330	46.6%	5,289	6.0%	29,458	33.2%	11,657	13.1%	88,699
Temple U.	97	5,806	6.8%	54,452	63.8%	6,018	7.0%	13,747	16.1%	5,371	6.3%	85,394
New Mexico Institute of Mining and Technology	98	5,066	6.0%	69,050	82.5%	3,737	4.5%	5,839	7.0%	50	0.1%	83,742
U. Idaho	99	867	1.0%	46,144	55.3%	25,037	30.0%	9,673	11.6%	1,669	2.0%	83,390
U. Wyoming	100	2,326	2.9%	25,537	32.0%	6,131	7.7%	42,839	53.8%	2,867	3.6%	79,700

Source: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.
http://www.nsf.gov/statistics/nsf09303/content.cfm?pub_id=3871&id=2

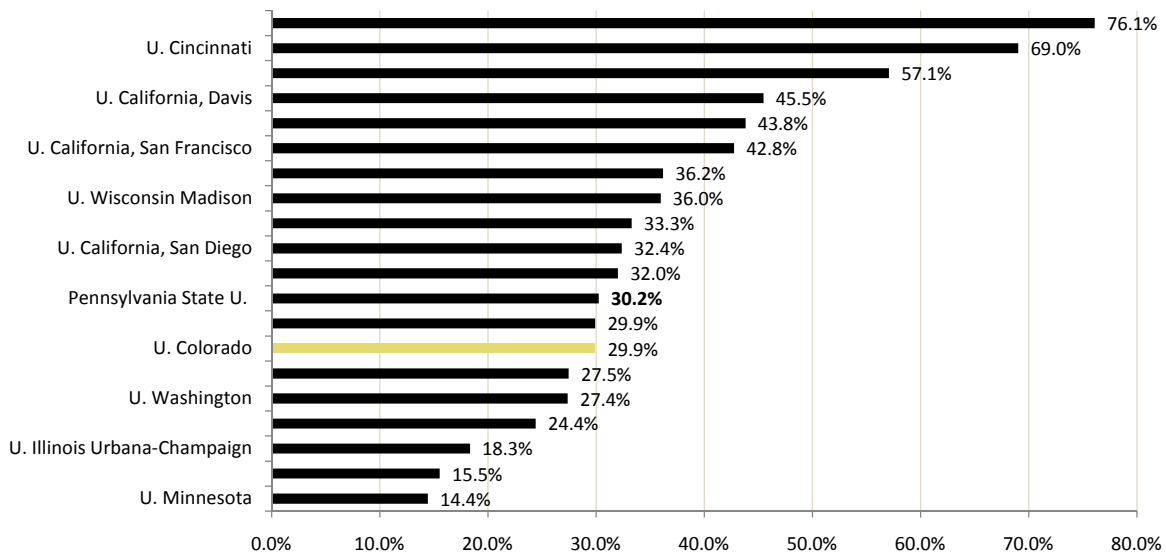
**Table 2.4 Federally Financed R&D Expenditures in Science and Engineering Fields, FY 2002 - FY 2007
Top 20 Public Universities and Colleges (based on FY 2007 Ranking)**

*Ranked by 5-Yr% Change in Federal R&D Expenditures in the Science and Engineering Fields
[Dollars in thousands]

Rank	Institution	2002	2003	2004	2005	2006	2007	5-Yr. % Change
1	Ohio State U. all campuses	\$177,883	\$198,488	\$284,675	\$294,053	\$315,914	\$313,242	76.1%
2	U. Cincinnati all campuses	\$150,166	\$185,261	\$194,965	\$202,654	\$201,742	\$253,833	69.0%
3	GA Institute of Technology all campuses	\$165,680	\$203,582	\$237,483	\$245,130	\$257,751	\$260,230	57.1%
4	U. California, Davis	\$176,644	\$208,327	\$221,937	\$240,003	\$248,190	\$256,994	45.5%
5	U. Pittsburgh all campuses	\$306,913	\$345,625	\$394,444	\$420,305	\$422,316	\$441,357	43.8%
6	U. California, San Francisco	\$327,393	\$371,697	\$418,944	\$438,988	\$464,660	\$467,402	42.8%
7	U. North Carolina Chapel Hill	\$254,571	\$280,678	\$304,204	\$320,294	\$329,215	\$346,672	36.2%
8	U. Wisconsin Madison	\$345,003	\$396,231	\$434,423	\$477,582	\$491,810	\$469,076	36.0%
9	U. California, Los Angeles	\$366,762	\$421,174	\$461,145	\$469,889	\$483,873	\$488,846	33.3%
10	U. California, San Diego	\$359,383	\$400,100	\$465,629	\$463,946	\$463,807	\$475,708	32.4%
11	U. Texas Austin	\$219,158	\$231,996	\$235,281	\$254,529	\$273,147	\$289,331	32.0%
12	Pennsylvania State U. all campuses	\$284,706	\$301,094	\$347,996	\$358,569	\$367,215	\$370,789	30.2%
13	U. Michigan all campuses	\$444,255	\$516,818	\$521,339	\$554,516	\$565,739	\$577,201	29.9%
14	U. Colorado all campuses	\$340,466	\$377,941	\$414,986	\$449,366	\$448,350	\$442,303	29.9%
15	U. Arizona	\$211,772	\$259,074	\$283,956	\$292,811	\$301,619	\$269,941	27.5%
16	U. Washington	\$487,059	\$565,602	\$625,218	\$606,317	\$650,394	\$620,375	27.4%
17	U. Alabama Birmingham	\$216,221	\$245,217	\$261,664	\$288,434	\$292,962	\$269,006	24.4%
18	U. Illinois Urbana-Champaign	\$214,323	\$266,487	\$275,896	\$289,985	\$264,645	\$253,612	18.3%
19	U. California, Berkeley	\$217,297	\$238,206	\$268,830	\$290,960	\$261,718	\$251,043	15.5%
20	U. Minnesota all campuses	\$295,301	\$293,266	\$307,677	\$319,771	\$326,170	\$337,966	14.4%

*Only universities with Federal R&D expenditures greater than \$250,000 for FY 2007 were eligible to be in the top 20 ranking by % change

**Figure 2.1 Federally Financed R&D Expenditures
Top 20 Public Universities Ranked by Percent Change FY 2002 - FY 2007**



Source: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.
http://www.nsf.gov/statistics/nsf09303/content.cfm?pub_id=3871&id=2