



UNIVERSITY OF COLORADO SYSTEM

Boulder • Colorado Springs • Denver

Office of the Vice President for Budget and Finance

University of Colorado 2009 Sponsored Research Report

Prepared by the University of Colorado System Office of Institutional Research

May 2010

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Foreward

In Section I, sponsored research awards refer to contracts and grants awarded to CU faculty. Many are multiyear contracts, some of 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 2009 Sponsored Research Awards

- In 2008, CU attracted \$713.5 million in sponsored research awards, 8% more than the previous year and the highest level of funding yet.
- Federal funding represented 67% of all research funding in 2009.
- Research funding at CU-Boulder reached a historic high in 2009 of \$339.7 million.
- Research funding at the Colorado Springs campus has grown rapidly over the last ten years, increasing from \$2.3 million to \$8.7 million.
- UC Denver (including the Anschutz Medical Campus) attracted more than \$365 million in research funding in 2009.

Section II: Fiscal 2008 University of Colorado R&D Expenditures as reported to and ranked by the National Science Foundation (NSF)

- CU placed 8th among public universities and colleges in terms of 2008 federally financed research expenditures in science and engineering fields. Rankings for specific disciplines include:
 - 2nd – Physical Sciences
 - 5th – Psychology
 - 5th – Environmental Sciences
 - 12th – Life Sciences
 - 24th – Math and Computer Sciences
 - 27th – Engineering
 - 36th – Social Sciences

Section I: Fiscal Year 2009 Sponsored Research Awards

Table 1.1 University of Colorado Sponsored Research Awards FY 1999 - FY 2009

Awards Granted by Campus [in Millions]

| Campus | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | % Change 1999-2009 |
|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------|
| Boulder | \$204.3 | \$214.2 | \$219.0 | \$229.0 | \$250.4 | \$259.7 | \$257.6 | \$256.4 | \$266.1 | \$280.0 | \$339.7 | 66.3% |
| Colorado Springs | \$2.3 | \$3.0 | \$2.7 | \$1.9 | \$5.2 | \$6.2 | \$8.7 | \$10.3 | \$7.9 | \$9.2 | \$8.7 | 278.3% |
| Denver | \$213.8 | \$242.7 | \$276.7 | \$314.9 | \$305.3 | \$322.5 | \$364.0 | \$373.3 | \$363.4 | \$371.5 | \$365.1 | 70.8% |
| Total | \$420.4 | \$420.4 | \$459.9 | \$498.4 | \$545.8 | \$560.9 | \$588.4 | \$630.3 | \$640.0 | \$637.4 | \$713.5 | 69.7% |

Awards Granted by Funding Source [in Millions]

| Source | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | % Change 1999-2009 |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------|
| Federal | \$309.9 | \$341.7 | \$366.4 | \$405.0 | \$436.4 | \$446.0 | \$461.0 | \$454.9 | \$435.7 | \$457.7 | \$476.5 | 53.8% |
| Non-Federal | \$110.5 | \$118.2 | \$132.0 | \$140.8 | \$124.5 | \$142.4 | \$169.3 | \$185.1 | \$201.7 | \$203.0 | \$237.0 | 114.5% |
| Total | \$420.4 | \$459.9 | \$498.4 | \$545.8 | \$560.9 | \$588.4 | \$630.3 | \$640.0 | \$637.4 | \$660.7 | \$713.5 | 69.7% |

Figure 1.1 CU Research Awards, FY 1999 - FY 2009

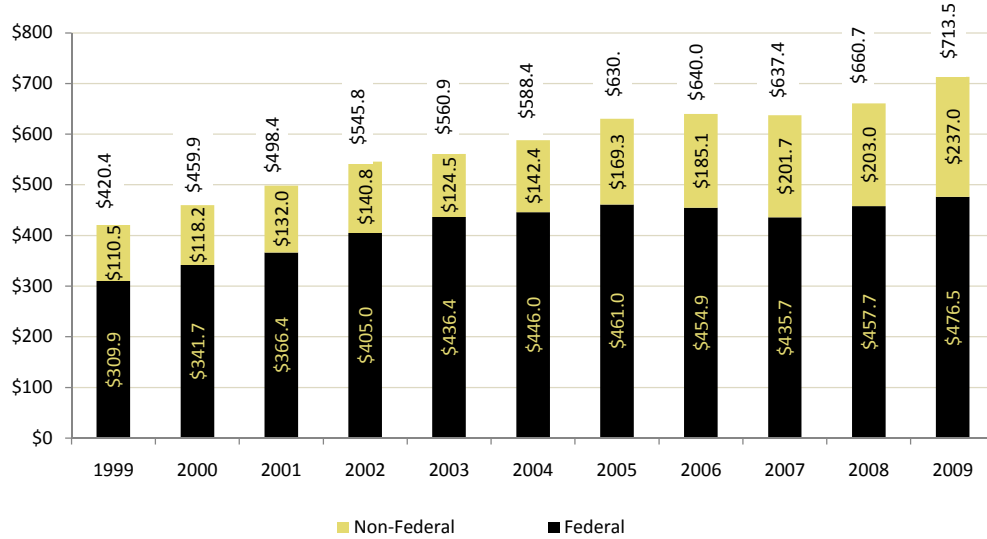
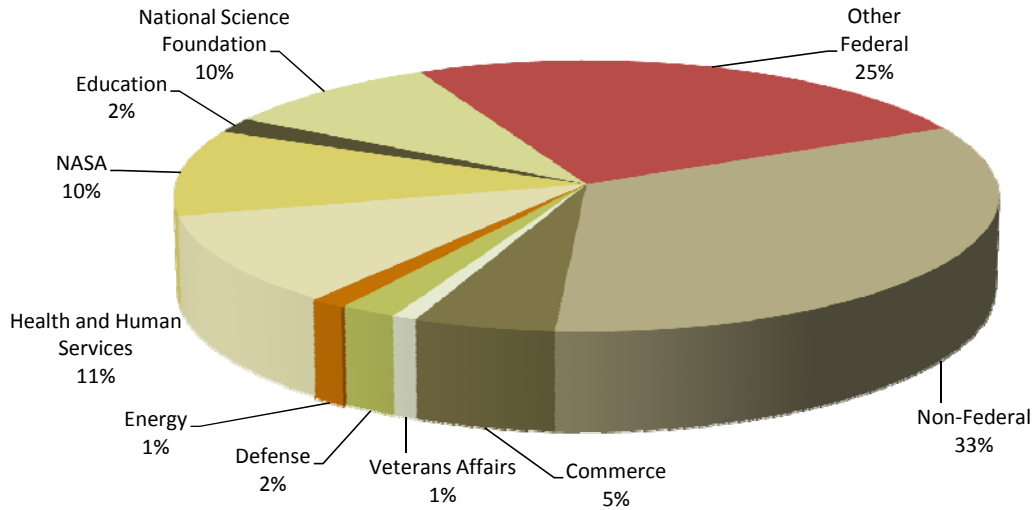


Table 1.2 University of Colorado Sponsored Research Awards by Source, FY 2009 (In Millions of Dollars)

| | Boulder | Colorado Springs | Denver | | | CU total |
|-----------------------------|-----------------------|---------------------|----------------------|-------------------------|-----------------------|-----------------------|
| | | | Denver Campus | Anschutz Medical Campus | UCD Total | |
| Federal | \$ 253,134,893 | \$ 3,944,758 | \$ 15,502,041 | \$ 203,944,950 | \$ 219,446,990 | \$ 476,526,641 |
| Commerce | \$ 36,559,983 | \$ - | \$ - | \$ - | \$ - | \$ 36,559,983 |
| Veterans Affairs | | \$ - | \$ 62,861 | \$ 6,300,640 | \$ 6,363,501 | \$ 6,363,501 |
| Defense | \$ 11,788,521 | \$ 114,491 | \$ 575,582 | \$ 2,167,084 | \$ 2,742,666 | \$ 14,645,678 |
| Energy | \$ 8,497,165 | \$ - | \$ 698,000 | \$ - | \$ 698,000 | \$ 9,195,165 |
| Health and Human Services | \$ 46,306,577 | \$ 406,671 | \$ 510,438 | \$ 29,869,517 | \$ 30,379,955 | \$ 77,093,204 |
| NASA | \$ 73,281,662 | \$ 186,454 | \$ - | \$ 354,285 | \$ 354,285 | \$ 73,822,401 |
| Education | \$ 5,678,247 | \$ 1,537,898 | \$ 3,276,531 | \$ 2,187,069 | \$ 5,463,600 | \$ 12,679,745 |
| National Science Foundation | \$ 60,269,826 | \$ 690,578 | \$ 5,237,415 | \$ 971,972 | \$ 6,209,387 | \$ 67,169,791 |
| Other Federal | \$ 10,752,912 | \$ 1,008,666 | \$ 5,141,214 | \$ 162,094,382 | \$ 167,235,596 | \$ 178,997,174 |
| Non-Federal | \$ 86,549,868 | \$ 4,736,633 | \$ 7,290,878 | \$ 138,405,410 | \$ 145,696,288 | \$ 236,982,789 |
| Total | \$ 339,684,761 | \$ 8,681,391 | \$ 22,792,919 | \$ 342,350,360 | \$ 365,143,278 | \$ 713,509,430 |

Figure 1.2 CU Research Awards by Funding Source, FY 2009



**Table 1.3 University of Colorado at Boulder
Sponsored Research Awards by Academic Unit**

| Academic Unit | FY 2009 |
|--|----------------------|
| Academic Affairs | \$3,501,695 |
| Continuing Education | \$28,000 |
| Library | \$30,446 |
| Student Affairs | \$1,590,051 |
| Leeds School of Business | \$3,578,699 |
| School of Education | \$6,268,927 |
| School of Law | \$210,000 |
| College of Arts & Sciences | \$79,480,488 |
| Administration | \$182,970 |
| Advanced Res & Training, Center for | \$267,968 |
| Anthropology | \$182,970 |
| Applied Math Prog. | \$2,607,171 |
| APS - CASA | \$9,498,492 |
| Asian Studies, Center for | \$1,513,858 |
| Chemistry & Biochemistry | \$17,821,163 |
| East Asian Languages & Civilization | \$296,558 |
| Ecology & Evolutionary Biology | \$2,314,381 |
| Economics | \$99,000 |
| Geography | \$1,075,554 |
| Geological Sciences | \$1,973,445 |
| History | \$39,500 |
| Integrated Plasma Studies, Center for (CIPS) | \$1,679,903 |
| Integrative Physiology | \$2,739,576 |
| Linguistics | \$83,084 |
| Mathematics | \$329,774 |
| MCD Biology | \$17,242,523 |
| Physics | \$7,727,657 |
| Political Science | \$187,642 |
| Prog. Atmos/Oceanic Science | \$801,791 |
| Psychology | \$9,907,506 |
| Other | \$908,002 |
| College Engineering & Applied Science | \$57,743,667 |
| Aerospace Engineering Sciences | \$11,341,449 |
| Chemical & Biological Engineering | \$14,829,691 |
| Civil, Environmental & Arch Engineering | \$7,554,664 |
| Computer Science | \$6,316,230 |
| Electrical & Computer Engineering | \$8,573,859 |
| Mechanical Engineering | \$8,123,148 |
| Colorado Space Grant Consortium | \$717,781 |
| Integrated Teaching & Learning Lab (ITLL) | \$286,845 |
| Graduate School & Research Institutes | \$187,249,288 |
| Graduate School | \$2,635,661 |
| Museum | \$1,489,794 |
| Limb Atmospheric Sounding, Center for | \$792,000 |
| Coop Inst. For Res in Environmental Sci | \$53,570,667 |
| Institute for Behavioral Genetics | \$11,626,574 |
| Institute of Arctic & Alpine Research | \$9,856,439 |
| Institute of Behavioral Sciences | \$18,659,064 |
| Institute of Cognitive Science | \$3,077,113 |
| JILA | \$18,674,236 |
| Lab for Atmospheric & Space Physics | \$66,867,740 |
| Other | \$3,500 |
| Total | \$339,684,761 |

**Table 1.4 University of Colorado at Colorado Springs
Sponsored Research Awards by Academic Unit**

| Academic Unit | FY 2009 |
|--|--------------------|
| Vice Chancellor Academic Affairs | \$967,327 |
| Vice Chancellor Student Success | \$84,857 |
| Vice Chancellor Administration & Finance | \$87,374 |
| College of Business | \$140,425 |
| College of Engineering & Applied Science | \$1,648,585 |
| College of Letters, Arts & Sciences | \$2,592,556 |
| College of Education | \$2,590,437 |
| School of Public Affairs | \$37,491 |
| BethEl Nursing & Health Sciences | \$531,839 |
| Joint Depts/Other | \$500 |
| Total | \$8,681,391 |

**Table 1.5 University of Colorado Denver
Sponsored Research Awards by Academic Unit**

| Academic Unit | FY 2009 |
|--|-----------------------|
| Office of the Chancellor/Vice Chancellors | \$ 8,814,402 |
| College of Architecture and Planning | \$ 1,365,467 |
| College of Arts and Media | \$ 698,495 |
| School of Education and Human Development | \$ 4,576,867 |
| College of Engineering and Applied Science | \$ 1,779,845 |
| College of Liberal Arts and Sciences | \$ 5,637,734 |
| School of Public Affairs | \$ 1,457,809 |
| School of Medicine | \$ 313,498,414 |
| Dean, School of Medicine | \$ 15,442,695 |
| Anesthesiology | \$ 2,115,065 |
| Biochem/Biophysics/Gen. | \$ 6,076,408 |
| Cellular & Structural Bio. | \$ 4,817,851 |
| Dermatology | \$ 4,499,606 |
| Family Medicine | \$ 7,416,207 |
| Immunology | \$ 3,879,455 |
| Medicine | \$ 70,335,358 |
| Microbiology | \$ 6,683,003 |
| Neurology | \$ 8,618,500 |
| Neuro Surgery | \$ 1,311,211 |
| Obstetrics/Gynecology | \$ 4,173,185 |
| Orthopedics | \$ 1,934,842 |
| Otolaryngology | \$ 1,438,166 |
| Pathology | \$ 10,005,714 |
| Pediatrics | \$ 43,474,703 |
| Pharmacology | \$ 15,349,341 |
| Physiology | \$ 3,950,525 |
| Psychiatry | \$ 44,052,500 |
| Radiation Oncology | \$ 1,315,378 |
| Rehabilitation Medicine | \$ 2,643,033 |
| Surgery | \$ 7,208,335 |
| Other | \$ 46,757,333 |
| School of Dentistry | \$ 4,374,292 |
| School of Nursing | \$ 2,732,268 |
| School of Public Health | \$ 7,791,803 |
| School of Pharmacy | \$ 12,415,882 |
| Total | \$ 365,143,278 |

**Section II: Fiscal Year 2008 University of Colorado R&D Expenditures,
National Science Foundation (NSF) Rankings**

**Table 2.1 National Science Foundation Research Expenditure Rankings
 Federally Financed R&D Expenditures FY 2008
 Top 20 Universities and Colleges**

| Public Universities | Rank | Federal Expenditures [in thousands] | All Universities | Rank | Federal Expenditures [in thousands] |
|--|-------------|--|---------------------------------------|-------------|--|
| U. Washington | 1 | \$614,069 | Johns Hopkins U. | 1 | \$1,425,100 |
| U. Michigan all campuses | 2 | \$592,768 | U. Washington | 2 | \$614,069 |
| U. California, San Diego | 3 | \$490,963 | U. Michigan all campuses | 3 | \$592,768 |
| U. Wisconsin, Madison | 4 | \$474,440 | Stanford U. | 4 | \$509,477 |
| U. California, San Francisco | 5 | \$472,642 | Massachusetts Institute of Technology | 5 | \$495,008 |
| U. California, Los Angeles | 6 | \$471,932 | U. California, San Diego | 6 | \$490,963 |
| U. Pittsburgh all campuses | 7 | \$456,172 | U. Pennsylvania | 7 | \$482,321 |
| U. Colorado all campuses | 8 | \$437,393 | U. Wisconsin Madison | 8 | \$474,440 |
| Pennsylvania State U. all campuses | 9 | \$406,528 | U. California, San Francisco | 9 | \$472,642 |
| U. North Carolina Chapel Hill | 10 | \$373,098 | U. California, Los Angeles | 10 | \$471,932 |
| U. Minnesota all campuses | 11 | \$364,137 | Columbia U. | 11 | \$461,029 |
| Ohio State U. all campuses | 12 | \$335,121 | U. Pittsburgh all campuses | 12 | \$456,172 |
| U. Texas Austin | 13 | \$324,287 | Duke U. | 13 | \$451,317 |
| U. Alabama Birmingham, The | 14 | \$303,084 | U. Colorado all campuses | 14 | \$437,393 |
| Georgia Inst. of Technology all campuses | 15 | \$281,184 | Pennsylvania State U. all campuses | 15 | \$406,528 |
| U. Arizona | 16 | \$277,897 | Washington U. St. Louis | 16 | \$393,918 |
| U. California, Davis | 17 | \$268,957 | Harvard U. | 17 | \$383,330 |
| U. Illinois Urbana-Champaign | 18 | \$266,912 | Yale U. | 18 | \$374,551 |
| U. California, Berkeley | 19 | \$249,163 | U. North Carolina Chapel Hill | 19 | \$373,098 |
| Texas A & M | 20 | \$245,607 | U. Minnesota all campuses | 20 | \$364,137 |

Source: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2008.
<http://www.nsf.gov/statistics/nsf10311/>

**Table 2.2 Federally Financed R&D Expenditures at Public Universities and Colleges
Top 20 Ranked by Science and Engineering Field, FY 2008**

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

| Overall | | |
|----------|--|------------------|
| 1 | U. Washington | \$614,069 |
| 2 | U. Michigan all campuses | \$592,768 |
| 3 | U. California, San Diego | \$490,963 |
| 4 | U. Wisconsin, Madison | \$474,440 |
| 5 | U. California, San Francisco | \$472,642 |
| 6 | U. California, Los Angeles | \$471,932 |
| 7 | U. Pittsburgh all campuses | \$456,172 |
| 8 | U. Colorado all campuses | \$437,393 |
| 9 | Pennsylvania State U. all campuses | \$406,528 |
| 10 | U. North Carolina Chapel Hill | \$373,098 |
| 11 | U. Minnesota all campuses | \$364,137 |
| 12 | Ohio State U. all campuses | \$335,121 |
| 13 | U. Texas Austin | \$324,287 |
| 14 | U. Alabama Birmingham, The | \$303,084 |
| 15 | Georgia Inst. of Technology all campuses | \$281,184 |
| 16 | U. Arizona | \$277,897 |
| 17 | U. California, Davis | \$268,957 |
| 18 | U. Illinois Urbana-Champaign | \$266,912 |
| 19 | U. California, Berkeley | \$249,163 |
| 20 | Texas A & M | \$245,607 |

| Environmental Sciences | | |
|------------------------|-------------------------------------|------------------|
| 1 | CO State U. | \$ 90,687 |
| 2 | TX A&M U. | \$ 88,677 |
| 3 | U. WA | \$ 84,950 |
| 4 | U. CA, San Diego | \$ 80,541 |
| 5 | U. CO all campuses | \$ 72,181 |
| 6 | U. WI Madison | \$ 54,812 |
| 7 | U. HI Manoa | \$ 54,384 |
| 8 | U. NH | \$ 50,818 |
| 9 | U. Miami | \$ 38,989 |
| 10 | OR State U. | \$ 35,033 |
| 11 | U. AK Fairbanks all campuses | \$ 28,103 |
| 12 | PA State U. all campuses | \$ 26,021 |
| 13 | U. MD Baltimore County | \$ 24,220 |
| 14 | U. RI | \$ 20,061 |
| 15 | U. SC all campuses | \$ 17,946 |
| 16 | AZ State U. | \$ 16,185 |
| 17 | C. of William and Mary all campuses | \$ 16,015 |
| 18 | U. TX Austin | \$ 15,789 |
| 19 | U. IL Urbana-Champaign | \$ 15,376 |
| 20 | U. South FL | \$ 15,355 |

| Psychology | | |
|------------|---------------------------|-----------------|
| 1 | PA State U. all campuses | \$18,082 |
| 2 | U. CT all campuses | \$14,587 |
| 3 | NY U. | \$13,641 |
| 4 | U. Houston | \$11,993 |
| 5 | U. CO all campuses | \$11,218 |
| 6 | AZ State U. | \$11,123 |
| 7 | U. Rochester | \$10,413 |
| 8 | FL State U. | \$10,383 |
| 9 | U. Miami | \$10,315 |
| 10 | IN U. all campuses | \$10,205 |
| 11 | U. GA | \$9,281 |
| 12 | U. MN all campuses | \$9,129 |
| 13 | U. CA, Los Angeles | \$8,758 |
| 14 | U. MI all campuses | \$8,750 |
| 15 | U. SC all campuses | \$8,609 |
| 16 | Temple U. | \$8,100 |
| 17 | San Diego State U. | \$7,988 |
| 18 | U. WA | \$7,969 |
| 19 | U. OR | \$7,936 |
| 20 | U. IL Urbana-Champaign | \$7,926 |

| Physical Sciences | | |
|-------------------|---------------------------------------|-----------------|
| 1 | U. AZ | \$97,961 |
| 2 | U. CO all campuses | \$65,148 |
| 3 | U. TX Austin | \$61,796 |
| 4 | U. CA, Berkeley | \$59,011 |
| 5 | U. MD College Park | \$56,409 |
| 6 | U. CA, Los Angeles | \$48,924 |
| 7 | U. IL Urbana-Champaign | \$41,426 |
| 8 | U. WI Madison | \$40,757 |
| 9 | U. CA, San Diego | \$38,731 |
| 10 | PA State U. all campuses | \$34,140 |
| 11 | U. WA | \$31,747 |
| 12 | MI State U. | \$31,158 |
| 13 | FL State U. | \$31,149 |
| 14 | U. MI all campuses | \$29,039 |
| 15 | U. HI Manoa | \$26,145 |
| 16 | Rutgers, The State U. NJ all campuses | \$24,322 |
| 17 | U. NC Chapel Hill | \$23,811 |
| 18 | U. CA, Santa Barbara | \$23,106 |
| 19 | OH State U. all campuses | \$22,609 |
| 20 | Purdue U. all campuses | \$22,318 |

**Table 2.2 (cont.) Federally Financed R&D Expenditures at Public Universities and Colleges
Top 20 Ranked by Science and Engineering Field, FY 2008**

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

| Life Sciences | | |
|---------------|--|------------------|
| 1 | U. CA, San Francisco | \$457,660 |
| 2 | U. WA | \$415,014 |
| 3 | U. PA | \$406,199 |
| 4 | U. Pittsburgh all campuses | \$402,404 |
| 5 | U. MI all campuses | \$352,868 |
| 6 | U. CA, Los Angeles | \$352,417 |
| 7 | U. CA, San Diego | \$289,372 |
| 8 | U. NC Chapel Hill | \$287,371 |
| 9 | U. AL Birmingham, The | \$286,705 |
| 10 | U. WI Madison | \$270,530 |
| 11 | U. MN all campuses | \$269,096 |
| 12 | U. CO all campuses | \$240,518 |
| 13 | OR Health & Science U. | \$213,320 |
| 14 | U. CA, Davis | \$207,315 |
| 15 | U. Southern CA | \$206,180 |
| 16 | OH State U. all campuses | \$203,888 |
| 17 | U. TX Southwestern Medical Ctr. Dallas | \$201,480 |
| 18 | U. Cincinnati all campuses | \$198,579 |
| 19 | U. Rochester | \$183,245 |
| 20 | U. IA | \$183,085 |

| Social Sciences | | |
|-----------------|---------------------------------|----------------|
| 1 | U. MI all campuses | \$68,210 |
| 2 | U. MD College Park | \$55,360 |
| 3 | U. WI Madison | \$32,543 |
| 4 | U. NC Chapel Hill | \$32,493 |
| 5 | OH State U. all campuses | \$25,500 |
| 6 | WA State U. | \$18,370 |
| 7 | Duke U. | \$16,001 |
| 8 | U. PA | \$15,291 |
| 9 | George Mason U. | \$13,065 |
| 10 | U. TX Austin | \$12,646 |
| 11 | MI State U. | \$12,321 |
| 12 | IA State U. | \$12,097 |
| 13 | U. MN all campuses | \$11,779 |
| 14 | PA State U. all campuses | \$11,374 |
| 15 | AZ State U. | \$9,416 |
| 16 | FL International U. | \$8,060 |
| 17 | U. CA, Berkeley | \$7,844 |
| 18 | U. WA | \$7,811 |
| 19 | U. of the VI | \$7,438 |
| 20 | ND State U. all campuses | \$7,381 |
| ↓ | | |
| 36 | U. Colorado all campuses | \$4,446 |

| Math & Computer Science | | |
|-------------------------|---------------------------------|----------------|
| 1 | U. TX Austin | \$86,824 |
| 2 | U. Southern CA | \$78,405 |
| 3 | U. IL Urbana-Champaign | \$46,625 |
| 4 | PA State U. all campuses | \$44,640 |
| 5 | MA Institute of Technology | \$37,308 |
| 6 | U. CA, San Diego | \$32,405 |
| 7 | U. Chicago | \$26,353 |
| 8 | U. HI Manoa | \$24,149 |
| 9 | U. MD College Park | \$22,457 |
| 10 | OR Health & Science U. | \$18,888 |
| 11 | OH State U. all campuses | \$18,202 |
| 12 | U. CA, Los Angeles | \$17,278 |
| 13 | U. WI Madison | \$16,539 |
| 14 | U. AK Fairbanks all campuses | \$14,459 |
| 15 | U. MN all campuses | \$14,294 |
| 16 | George Mason U. | \$13,031 |
| 17 | NC State U. | \$12,586 |
| 18 | U. MA Amherst | \$12,090 |
| 19 | U. UT | \$12,034 |
| 20 | U. AL Huntsville, The | \$11,232 |
| ↓ | | |
| 24 | U. Colorado all campuses | \$9,189 |

| Engineering | | |
|-------------|---|-----------------|
| 1 | GA Institute of Technology all campuses | \$197,139 |
| 2 | PA State U. all campuses | \$170,676 |
| 3 | U. MI all campuses | \$118,230 |
| 4 | U. TX Austin | \$99,410 |
| 5 | U. IL Urbana-Champaign | \$83,821 |
| 6 | U. Rochester | \$69,100 |
| 7 | Purdue U. all campuses | \$63,164 |
| 8 | VA Polytechnic Institute and State U. | \$61,416 |
| 9 | U. WA | \$60,347 |
| 10 | NM State U. main campus | \$59,470 |
| 11 | TX A&M U. | \$58,127 |
| 12 | U. MD College Park | \$56,049 |
| 13 | UT State U. | \$54,622 |
| 14 | U. WI Madison | \$53,391 |
| 15 | U. CA, Santa Barbara | \$48,921 |
| 16 | OH State U. all campuses | \$48,196 |
| 17 | U. CA, Berkeley | \$47,832 |
| 18 | U. FL | \$42,567 |
| 19 | NM Institute of Mining and Technology | \$40,594 |
| 20 | MS State U. | \$40,379 |
| ↓ | | |
| 27 | 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 2008.
<http://www.nsf.gov/statistics/nsf10311/>

Table 2.3 Total R&D Expenditures in Science and Engineering Fields by Funding Source
Top 100 Public Universities and Colleges Ranked by FY 2008 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. CA, San Francisco | 1 | 46,476 | 5.3% | 472,642 | 53.4% | 27,623 | 3.1% | 158,133 | 17.9% | 180,308 | 20.4% | 885,182 |
| U. WI Madison | 2 | 20,796 | 2.4% | 474,440 | 53.8% | 36,830 | 4.2% | 270,406 | 30.7% | 79,305 | 9.0% | 881,777 |
| U. MI all campuses | 3 | 40,696 | 4.6% | 592,768 | 67.6% | 4,953 | 0.6% | 192,650 | 22.0% | 45,323 | 5.2% | 876,390 |
| U. CA, Los Angeles | 4 | 47,096 | 5.4% | 471,932 | 54.2% | 22,600 | 2.6% | 186,194 | 21.4% | 143,656 | 16.5% | 871,478 |
| U. CA, San Diego | 5 | 49,878 | 5.9% | 490,963 | 58.3% | 30,649 | 3.6% | 141,291 | 16.8% | 129,246 | 15.3% | 842,027 |
| U. WA | 6 | 74,002 | 9.7% | 614,069 | 80.3% | 10,634 | 1.4% | 40,965 | 5.4% | 25,465 | 3.3% | 765,135 |
| OH State U. all campuses | 7 | 127,604 | 18.2% | 335,121 | 47.7% | 99,329 | 14.1% | 102,631 | 14.6% | 37,907 | 5.4% | 702,592 |
| PA State U. all campuses | 8 | 99,074 | 14.1% | 406,528 | 58.0% | 67,916 | 9.7% | 125,995 | 18.0% | 1,617 | 0.2% | 701,130 |
| U. MN all campuses | 9 | 28,605 | 4.2% | 364,137 | 53.3% | 62,266 | 9.1% | 123,238 | 18.1% | 104,416 | 15.3% | 682,662 |
| U. CA, Davis | 10 | 33,575 | 5.2% | 268,957 | 41.9% | 56,078 | 8.7% | 215,037 | 33.5% | 68,872 | 10.7% | 642,519 |
| U. Pittsburgh all campuses | 11 | 12,397 | 2.1% | 456,172 | 76.6% | 14,807 | 2.5% | 83,439 | 14.0% | 28,812 | 4.8% | 595,627 |
| U. CA, Berkeley | 12 | 41,568 | 7.0% | 249,163 | 42.1% | 43,969 | 7.4% | 168,035 | 28.4% | 89,035 | 15.0% | 591,770 |
| U. FL | 13 | 31,811 | 5.4% | 230,999 | 39.5% | 111,114 | 19.0% | 175,266 | 30.0% | 34,980 | 6.0% | 584,170 |
| TX A&M U. | 14 | 43,421 | 7.5% | 245,607 | 42.2% | 124,139 | 21.3% | 157,163 | 27.0% | 12,035 | 2.1% | 582,365 |
| U. TX M. D. Anderson Cancer Ctr. | 15 | 40,625 | 7.3% | 194,889 | 34.9% | 149,429 | 26.8% | 100,042 | 17.9% | 73,518 | 13.2% | 558,503 |
| U. AZ | 16 | 11,325 | 2.1% | 277,897 | 50.9% | 31,370 | 5.7% | 186,912 | 34.2% | 38,365 | 7.0% | 545,869 |
| U. CO all campuses | 17 | 17,971 | 3.4% | 437,393 | 81.7% | 6,043 | 1.1% | 44,440 | 8.3% | 29,709 | 5.5% | 535,556 |
| U. NC Chapel Hill | 18 | 9,900 | 1.9% | 373,098 | 71.0% | 23,911 | 4.5% | 118,934 | 22.6% | 0 | 0.0% | 525,843 |
| GA Institute of Technology all campuses | 19 | 55,592 | 10.6% | 281,184 | 53.9% | 15,517 | 3.0% | 168,333 | 32.2% | 1,510 | 0.3% | 522,136 |
| U. IL Urbana-Champaign | 20 | 20,722 | 4.1% | 266,912 | 53.2% | 36,930 | 7.4% | 161,848 | 32.3% | 14,867 | 3.0% | 501,279 |
| U. TX Austin | 21 | 42,513 | 8.6% | 324,287 | 65.7% | 20,318 | 4.1% | 80,872 | 16.4% | 25,304 | 5.1% | 493,294 |
| Purdue U. all campuses | 22 | 63,843 | 14.8% | 176,592 | 41.1% | 50,145 | 11.7% | 137,708 | 32.0% | 1,700 | 0.4% | 429,988 |
| IN U. all campuses | 23 | 22,223 | 5.4% | 186,711 | 45.3% | 6,836 | 1.7% | 132,605 | 32.2% | 63,564 | 15.4% | 411,939 |
| U. AL Birmingham, The | 24 | 10,182 | 2.5% | 303,084 | 74.9% | 296 | 0.1% | 67,623 | 16.7% | 23,430 | 5.8% | 404,615 |
| U. MD College Park | 25 | 11,140 | 2.8% | 236,417 | 59.8% | 26,148 | 6.6% | 109,100 | 27.6% | 12,232 | 3.1% | 395,037 |
| LA State U. all campuses | 26 | 18,767 | 4.8% | 150,298 | 38.4% | 89,055 | 22.8% | 108,652 | 27.8% | 24,462 | 6.3% | 391,234 |
| U. TX Southwestern Medical Ctr. Dallas | 27 | 22,960 | 5.9% | 201,480 | 51.6% | 49,262 | 12.6% | 34,701 | 8.9% | 81,946 | 21.0% | 390,349 |
| U. MD Baltimore | 28 | 40,670 | 10.7% | 169,026 | 44.6% | 18,178 | 4.8% | 103,337 | 27.2% | 48,196 | 12.7% | 379,407 |
| VA Polytechnic Institute and State U. | 29 | 20,475 | 5.5% | 135,578 | 36.3% | 100,311 | 26.9% | 96,331 | 25.8% | 20,586 | 5.5% | 373,281 |
| NC State U. | 30 | 41,311 | 11.3% | 131,412 | 35.9% | 113,385 | 31.0% | 79,840 | 21.8% | 189 | 0.1% | 366,137 |
| MI State U. | 31 | 10,955 | 3.1% | 152,907 | 42.9% | 47,068 | 13.2% | 128,808 | 36.1% | 17,029 | 4.8% | 356,767 |
| U. GA | 32 | 5,001 | 1.4% | 102,817 | 29.4% | 43,312 | 12.4% | 188,166 | 53.7% | 11,003 | 3.1% | 350,299 |
| U. NE all campuses | 33 | 16,328 | 4.7% | 136,317 | 39.0% | 8,801 | 2.5% | 157,690 | 45.2% | 30,084 | 8.6% | 349,220 |
| U. Cincinnati all campuses | 34 | 7,513 | 2.2% | 221,186 | 64.3% | 20,493 | 6.0% | 77,348 | 22.5% | 17,506 | 5.1% | 344,046 |
| SUNY Buffalo all campuses | 35 | 21,433 | 6.3% | 157,578 | 46.6% | 16,823 | 5.0% | 96,916 | 28.6% | 45,550 | 13.5% | 338,300 |
| U. KY all campuses | 36 | 9,253 | 2.7% | 154,811 | 46.0% | 48,013 | 14.3% | 98,723 | 29.3% | 25,869 | 7.7% | 336,669 |
| U. IL Chicago | 37 | 9,015 | 2.7% | 196,520 | 58.6% | 11,987 | 3.6% | 94,521 | 28.2% | 23,095 | 6.9% | 335,138 |
| U. CA, Irvine | 38 | 17,111 | 5.3% | 178,299 | 54.9% | 16,691 | 5.1% | 68,775 | 21.2% | 43,676 | 13.5% | 324,552 |
| Rutgers, The State U. NJ all campuses | 39 | 12,216 | 3.8% | 140,399 | 43.4% | 36,474 | 11.3% | 102,424 | 31.7% | 31,891 | 9.9% | 323,404 |
| OR Health & Science U. | 40 | 16,612 | 5.5% | 232,208 | 77.0% | 4,569 | 1.5% | 25,229 | 8.4% | 22,778 | 7.6% | 301,396 |
| CO State U. | 41 | 18,068 | 6.1% | 208,925 | 70.8% | 12,860 | 4.4% | 43,938 | 14.9% | 11,444 | 3.9% | 295,235 |
| U. IA | 42 | 6,433 | 2.2% | 229,903 | 78.3% | 9,122 | 3.1% | 32,549 | 11.1% | 15,557 | 5.3% | 293,564 |
| U. South FL | 43 | 22,501 | 8.1% | 169,911 | 61.0% | 28,840 | 10.4% | 57,121 | 20.5% | 46 | 0.0% | 278,419 |
| WA State U. | 44 | 6,923 | 2.5% | 97,668 | 35.3% | 48,653 | 17.6% | 110,854 | 40.0% | 12,708 | 4.6% | 276,806 |
| U. HI Manoa | 45 | 26,921 | 9.9% | 194,508 | 71.6% | 17,578 | 6.5% | 28,132 | 10.3% | 4,696 | 1.7% | 271,835 |
| SUNY Albany | 46 | 25,560 | 9.5% | 108,747 | 40.2% | 56,121 | 20.8% | 45,761 | 16.9% | 34,225 | 12.7% | 270,414 |
| AZ State U. | 47 | 16,126 | 6.2% | 125,558 | 48.4% | 22,856 | 8.8% | 84,065 | 32.4% | 10,898 | 4.2% | 259,503 |
| U. VA all campuses | 48 | 6,414 | 2.5% | 219,429 | 85.2% | 1,140 | 0.4% | 18,780 | 7.3% | 11,888 | 4.6% | 257,651 |
| U. UT | 49 | 14,466 | 5.7% | 171,737 | 67.6% | 1,374 | 0.5% | 51,106 | 20.1% | 15,208 | 6.0% | 253,891 |
| SUNY Stony Brook all campuses | 50 | 5,396 | 2.1% | 106,419 | 42.1% | 29,990 | 11.9% | 103,869 | 41.1% | 7,071 | 2.8% | 252,745 |

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 2008 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. TN all campuses | 51 | 17,247 | 6.9% | 120,289 | 48.1% | 48,222 | 19.3% | 50,416 | 20.2% | 14,014 | 5.6% | 250,188 |
| Wayne State U. | 52 | 12,719 | 5.1% | 115,904 | 46.5% | 10,338 | 4.1% | 74,893 | 30.1% | 35,356 | 14.2% | 249,210 |
| U. MO-Columbia | 53 | 2,140 | 0.9% | 108,131 | 44.2% | 15,715 | 6.4% | 107,782 | 44.1% | 10,871 | 4.4% | 244,639 |
| U. of Medicine and Dentistry NJ | 54 | 17,174 | 7.5% | 122,061 | 53.0% | 12,440 | 5.4% | 53,930 | 23.4% | 24,742 | 10.7% | 230,347 |
| U. CT all campuses | 55 | 9,564 | 4.2% | 119,915 | 53.1% | 10,295 | 4.6% | 68,006 | 30.1% | 18,124 | 8.0% | 225,904 |
| IA State U. | 56 | 13,373 | 6.0% | 102,771 | 45.8% | 44,000 | 19.6% | 56,908 | 25.4% | 7,316 | 3.3% | 224,368 |
| U. KS all campuses | 57 | 3,342 | 1.6% | 122,401 | 56.8% | 5,881 | 2.7% | 74,579 | 34.6% | 9,161 | 4.3% | 215,364 |
| MS State U. | 58 | 8,525 | 4.0% | 105,327 | 49.9% | 34,178 | 16.2% | 62,921 | 29.8% | 0 | 0.0% | 210,951 |
| U. CA, Santa Barbara | 59 | 15,542 | 7.6% | 111,601 | 54.8% | 4,184 | 2.1% | 41,024 | 20.1% | 31,368 | 15.4% | 203,719 |
| U. TX Health Science Ctr. San Antonio | 60 | 5,567 | 2.8% | 121,758 | 60.5% | 4,983 | 2.5% | 50,406 | 25.0% | 18,609 | 9.2% | 201,323 |
| U. NM main campus | 61 | 6,922 | 3.5% | 134,783 | 68.2% | 4,328 | 2.2% | 48,143 | 24.4% | 3,454 | 1.7% | 197,630 |
| U. TX Health Science Ctr. Houston | 62 | 7,519 | 3.8% | 129,277 | 65.5% | 15,040 | 7.6% | 26,698 | 13.5% | 18,718 | 9.5% | 197,252 |
| Clemson U. | 63 | 13,573 | 7.0% | 56,535 | 29.0% | 24,188 | 12.4% | 97,131 | 49.8% | 3,768 | 1.9% | 195,195 |
| U. OK all campuses | 64 | 13,934 | 7.3% | 91,578 | 47.7% | 17,590 | 9.2% | 56,408 | 29.4% | 12,560 | 6.5% | 192,070 |
| Medical U. SC | 65 | 13,106 | 6.9% | 102,187 | 54.0% | 1,428 | 0.8% | 66,737 | 35.2% | 5,911 | 3.1% | 189,369 |
| OR State U. | 66 | 3,373 | 1.8% | 113,614 | 60.4% | 37,823 | 20.1% | 29,928 | 15.9% | 3,318 | 1.8% | 188,056 |
| FL State U. | 67 | 638 | 0.3% | 110,618 | 60.7% | 9,787 | 5.4% | 52,386 | 28.7% | 8,885 | 4.9% | 182,314 |
| U. TX Medical Branch | 68 | 6,403 | 3.6% | 122,009 | 67.8% | 6,668 | 3.7% | 28,640 | 15.9% | 16,306 | 9.1% | 180,026 |
| U. MA Worcester | 69 | 15,192 | 8.5% | 145,113 | 81.2% | 895 | 0.5% | 2,626 | 1.5% | 14,788 | 8.3% | 178,614 |
| U. SC all campuses | 70 | 3,435 | 2.0% | 98,576 | 57.2% | 2,039 | 1.2% | 53,077 | 30.8% | 15,251 | 8.8% | 172,378 |
| U. MA Amherst | 71 | 8,182 | 5.4% | 79,736 | 52.2% | 4,699 | 3.1% | 49,556 | 32.4% | 10,711 | 7.0% | 152,884 |
| U. Louisville | 72 | 2,390 | 1.6% | 72,711 | 48.8% | 12,300 | 8.3% | 41,541 | 27.9% | 19,994 | 13.4% | 148,936 |
| VA Commonwealth U. | 73 | 9,440 | 6.4% | 95,369 | 64.2% | 14,534 | 9.8% | 24,380 | 16.4% | 4,932 | 3.3% | 148,655 |
| Auburn U. all campuses | 74 | 3,841 | 2.6% | 54,748 | 37.2% | 2,719 | 1.8% | 81,243 | 55.3% | 4,433 | 3.0% | 146,984 |
| UT State U. | 75 | 4,089 | 2.8% | 88,884 | 60.8% | 26,933 | 18.4% | 20,019 | 13.7% | 6,203 | 4.2% | 146,128 |
| WV U. | 76 | 4,782 | 3.4% | 68,147 | 48.8% | 4,649 | 3.3% | 60,591 | 43.4% | 1,601 | 1.1% | 139,770 |
| NM State U. main campus | 77 | 1,995 | 1.4% | 86,636 | 62.6% | 17,186 | 12.4% | 30,707 | 22.2% | 1,903 | 1.4% | 138,427 |
| KS State U. | 78 | 3,922 | 2.9% | 52,984 | 38.5% | 41,367 | 30.1% | 31,338 | 22.8% | 7,932 | 5.8% | 137,543 |
| U. CA, Santa Cruz | 79 | 4,279 | 3.2% | 69,742 | 51.6% | 6,866 | 5.1% | 36,229 | 26.8% | 18,145 | 13.4% | 135,261 |
| U. CA, Riverside | 80 | 5,829 | 4.5% | 53,780 | 41.5% | 6,577 | 5.1% | 51,147 | 39.5% | 12,272 | 9.5% | 129,605 |
| U. DE | 81 | 5,058 | 4.0% | 84,628 | 67.6% | 7,318 | 5.8% | 23,003 | 18.4% | 5,172 | 4.1% | 125,179 |
| OK State U. all campuses | 82 | 4,372 | 3.6% | 41,051 | 33.9% | 31,776 | 26.2% | 43,072 | 35.5% | 955 | 0.8% | 121,226 |
| MT State U. Bozeman | 83 | 6,459 | 5.4% | 70,386 | 58.6% | 24,619 | 20.5% | 18,691 | 15.6% | 0 | 0.0% | 120,155 |
| U. AR for Medical Sciences | 84 | 4,020 | 3.4% | 62,035 | 52.8% | 8,292 | 7.1% | 27,075 | 23.1% | 16,018 | 13.6% | 117,440 |
| ND State U. all campuses | 85 | 1,037 | 0.9% | 50,038 | 43.3% | 34,783 | 30.1% | 25,976 | 22.5% | 3,679 | 3.2% | 115,513 |
| U. VT | 86 | 2,330 | 2.0% | 89,717 | 77.7% | 267 | 0.2% | 18,753 | 16.2% | 4,354 | 3.8% | 115,421 |
| U. NH | 87 | 6,074 | 5.3% | 83,769 | 73.6% | 1,509 | 1.3% | 16,422 | 14.4% | 6,103 | 5.4% | 113,877 |
| U. Central FL | 88 | 16,037 | 14.8% | 55,771 | 51.6% | 5,664 | 5.2% | 30,595 | 28.3% | 0 | 0.0% | 108,067 |
| Uniformed Services U. of the Health Sciences | 89 | 0 | 0.0% | 67,345 | 63.4% | 0 | 0.0% | 34,106 | 32.1% | 4,728 | 4.5% | 106,179 |
| U. AR main campus | 90 | 7,566 | 7.4% | 31,531 | 30.7% | 46,292 | 45.0% | 15,399 | 15.0% | 1,996 | 1.9% | 102,784 |
| U. AK Fairbanks all campuses | 91 | 0 | 0.0% | 90,280 | 87.9% | 1,353 | 1.3% | 0 | 0.0% | 11,128 | 10.8% | 102,761 |
| U. NV, Reno | 92 | 1,747 | 1.7% | 66,165 | 64.8% | 5,918 | 5.8% | 27,525 | 27.0% | 718 | 0.7% | 102,073 |
| U. CA Office of the President | 93 | 298 | 0.3% | 101 | 0.1% | 40,551 | 40.5% | 49,195 | 49.2% | 9,889 | 9.9% | 100,034 |
| FL International U. | 94 | 5,497 | 5.7% | 52,838 | 55.2% | 6,432 | 6.7% | 30,939 | 32.3% | 0 | 0.0% | 95,706 |
| U. ME | 95 | 3,228 | 3.4% | 40,931 | 43.1% | 10,140 | 10.7% | 39,512 | 41.6% | 1,231 | 1.3% | 95,042 |
| Temple U. | 96 | 5,595 | 6.0% | 58,686 | 63.5% | 5,121 | 5.5% | 17,672 | 19.1% | 5,412 | 5.9% | 92,486 |
| U. MS all campuses | 97 | 1,223 | 1.4% | 65,799 | 73.0% | 201 | 0.2% | 16,434 | 18.2% | 6,438 | 7.1% | 90,095 |
| NJ Institute of Technology | 98 | 4,078 | 4.5% | 40,087 | 44.6% | 4,918 | 5.5% | 30,871 | 34.4% | 9,838 | 11.0% | 89,792 |
| U. Houston | 99 | 4,136 | 4.9% | 43,162 | 51.1% | 9,160 | 10.8% | 23,288 | 27.6% | 4,744 | 5.6% | 84,490 |
| Naval Postgraduate School | 100 | 415 | 0.5% | 82,302 | 98.8% | 542 | 0.7% | 0 | 0.0% | 55 | 0.1% | 83,314 |

Source: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2008.
<http://www.nsf.gov/statistics/nsf10311/>

Table 2.4 Federally Financed R&D Expenditures in Science and Engineering Fields, FY 2003 - FY 2008

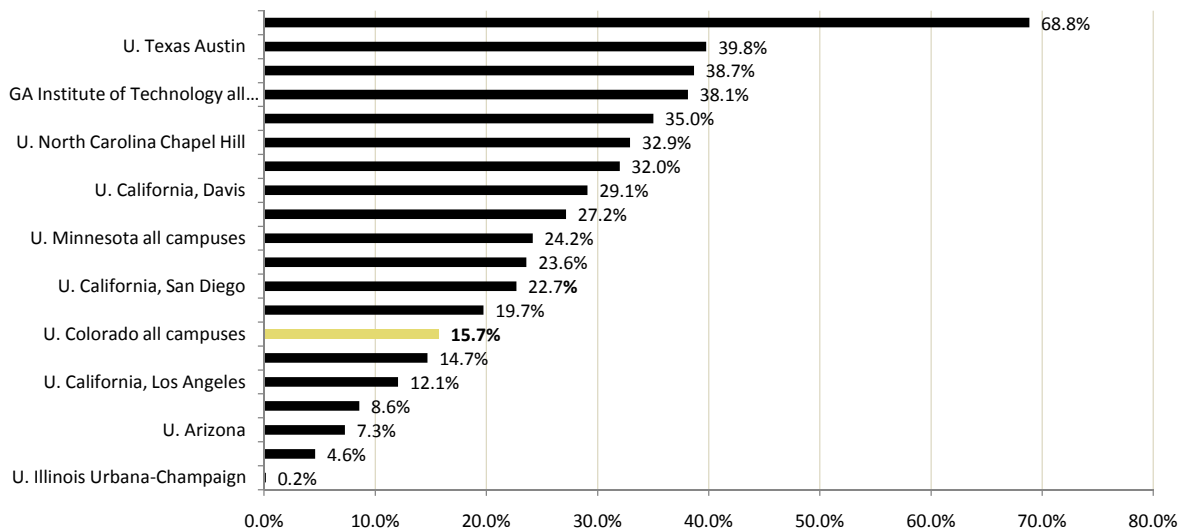
Top 20 Public Universities and Colleges (based on FY 2008 Ranking)

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

[Dollars in thousands]

| Rank | Institution | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 5-Yr. % Change |
|------|---|------------------|------------------|------------------|------------------|------------------|------------------|----------------|
| 1 | Ohio State U. all campuses | \$198,488 | \$284,675 | \$294,053 | \$315,914 | \$313,242 | \$335,121 | 68.8% |
| 2 | U. Texas Austin | \$231,996 | \$235,281 | \$254,529 | \$273,147 | \$289,331 | \$324,287 | 39.8% |
| 3 | Texas A&M | \$177,119 | \$173,705 | \$212,923 | \$206,242 | \$228,363 | \$245,607 | 38.7% |
| 4 | GA Institute of Technology all campuses | \$203,582 | \$237,483 | \$245,130 | \$257,751 | \$260,230 | \$281,184 | 38.1% |
| 5 | Pennsylvania State U. all campuses | \$301,094 | \$347,996 | \$358,569 | \$367,215 | \$370,789 | \$406,528 | 35.0% |
| 6 | U. North Carolina Chapel Hill | \$280,678 | \$304,204 | \$320,294 | \$329,215 | \$346,672 | \$373,098 | 32.9% |
| 7 | U. Pittsburgh all campuses | \$345,625 | \$394,444 | \$420,305 | \$422,316 | \$441,357 | \$456,172 | 32.0% |
| 8 | U. California, Davis | \$208,327 | \$221,937 | \$240,003 | \$248,190 | \$256,994 | \$268,957 | 29.1% |
| 9 | U. California, San Francisco | \$371,697 | \$418,944 | \$438,988 | \$464,660 | \$467,402 | \$472,642 | 27.2% |
| 10 | U. Minnesota all campuses | \$293,266 | \$307,677 | \$319,771 | \$326,170 | \$337,966 | \$364,137 | 24.2% |
| 11 | U. Alabama Birmingham | \$245,217 | \$261,664 | \$288,434 | \$292,962 | \$269,006 | \$303,084 | 23.6% |
| 12 | U. California, San Diego | \$400,100 | \$465,629 | \$463,946 | \$463,807 | \$475,708 | \$490,963 | 22.7% |
| 13 | U. Wisconsin Madison | \$396,231 | \$434,423 | \$477,582 | \$491,810 | \$469,076 | \$474,440 | 19.7% |
| 14 | U. Colorado all campuses | \$377,941 | \$414,986 | \$449,366 | \$448,350 | \$442,303 | \$437,393 | 15.7% |
| 15 | U. Michigan all campuses | \$516,818 | \$521,339 | \$554,516 | \$565,739 | \$577,201 | \$592,768 | 14.7% |
| 16 | U. California, Los Angeles | \$421,174 | \$461,145 | \$469,889 | \$483,873 | \$488,846 | \$471,932 | 12.1% |
| 17 | U. Washington | \$565,602 | \$625,218 | \$606,317 | \$650,394 | \$620,375 | \$614,069 | 8.6% |
| 18 | U. Arizona | \$259,074 | \$283,956 | \$292,811 | \$301,619 | \$269,941 | \$277,897 | 7.3% |
| 19 | U. California, Berkeley | \$238,206 | \$268,830 | \$290,960 | \$261,718 | \$251,043 | \$249,163 | 4.6% |
| 20 | U. Illinois Urbana-Champaign | \$266,487 | \$275,896 | \$289,985 | \$264,645 | \$253,612 | \$266,912 | 0.2% |

**Figure 2.1 Federally Financed R&D Expenditures
Top 20 Public Universities Ranked by Percent Change FY 2003 - FY 2008**



Source: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2008.
<http://www.nsf.gov/statistics/nsf10311/>