

ANNUAL R&D EXPENDITURES FY2008 (EXPANDED VERSION)



UNIVERSITY OF MASSACHUSETTS
Amherst-Boston-Dartmouth-Lowell-Worcester

*UMASS Presidents Office
Office of Institutional Research
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Preface

The *FY 2008 Annual Research and Development Expenditure Report (Expanded Version)* presents information on the research and development expenditures for the University of Massachusetts System. It is based on data that our five campuses provide to the National Science Foundation (NSF) through its annual Survey of Research and Development Expenditures at Universities and Colleges. In addition to the FY 2008 data, this report also provides trend data in many cases. Additional highlights for the UMASS System as well as UMass Campuses based on NSF rankings and comparative data can also be found in this expanded version. Please note that rankings data as well as data for all U.S. institutions is for the prior fiscal year FY 2007 (most recent available).

A Note on the Definition and Criteria For ‘R&D Expenditures’ - According to the National Science Foundation Survey of Research And Development Expenditures, “*(Separately budgeted) R&D Expenditures* include all funds expended for activities that are specifically organized to produce research outcomes. These activities are either commissioned by an agency external to the institution or are separately budgeted by an organizational unit within the institution. *Expenditures* are funds actually spent by an institution during its fiscal year. *Separately budgeted R&D equipment purchased from current funds* includes all research equipment purchased under sponsored research project awards” (www.nsf.org).

Please note that the NSF R&D Expenditures data do not include research monies expended in any training or education activities.

Please Note: Following the implementation system-wide of ERP research administration software in 2007, significant improvements have been made to the methodology used to gather, analyze, and report the FY 2007 R&D Expenditures data. Although variations at the aggregate level are not overly significant, there might be a slight impact of possible methodological inconsistencies for trended data at the sub-category levels. Comparison to data from prior years should be made with this awareness, as campuses are currently in the process of reviewing their methodology.

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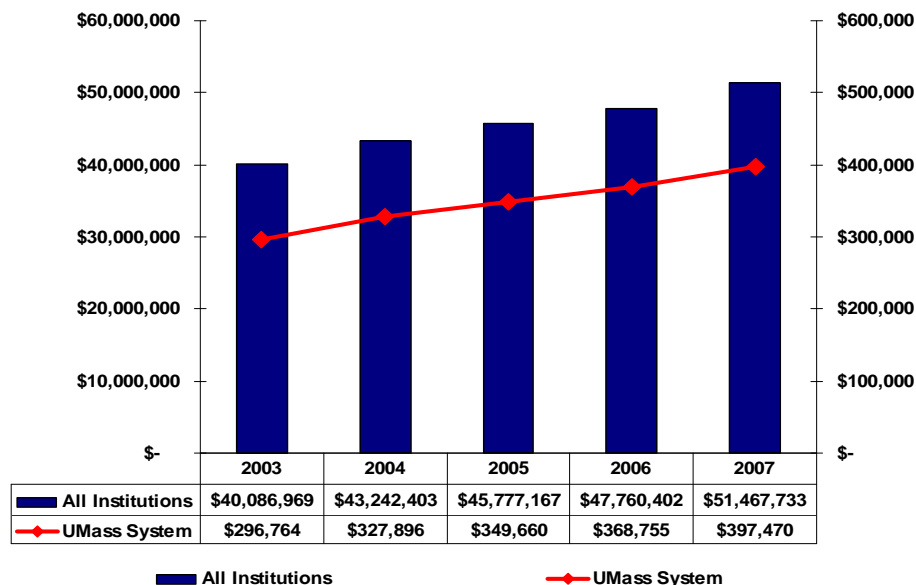
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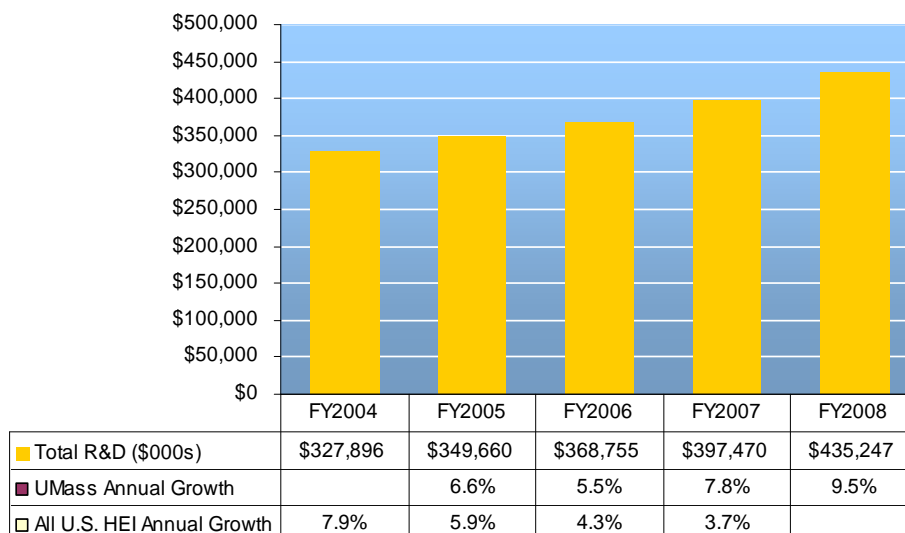
EXECUTIVE SUMMARY

- UMass Total R&D Expenditures** - Total FY2008 R&D expenditures for the University of Massachusetts System was reported at \$435 million, which represents a 9.5% increase from the FY2007 total of \$397 million.
- UMass versus All U.S. Institutions - Total R&D Expenditures and Growth** - Between FY2004-FY2007, the UMASS System has shown higher annual growth rates in total R&D Expenditures in comparison to all U.S. Institutions. In comparison to all U.S. Institutions,



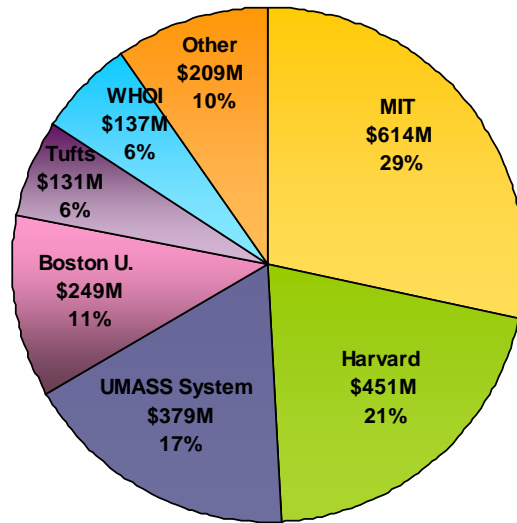
*Total R&D Expenditures: UMASS versus All U.S. Institutions
As Percent of all MA Institutions, FY2003-FY2007*

that reflected an annual growth rate of 5.9%, 4.3%, and 3.7% respectively, the UMASS System reflected annual growth rates of 6.6%, 5.5%, and 7.8% for the same years.



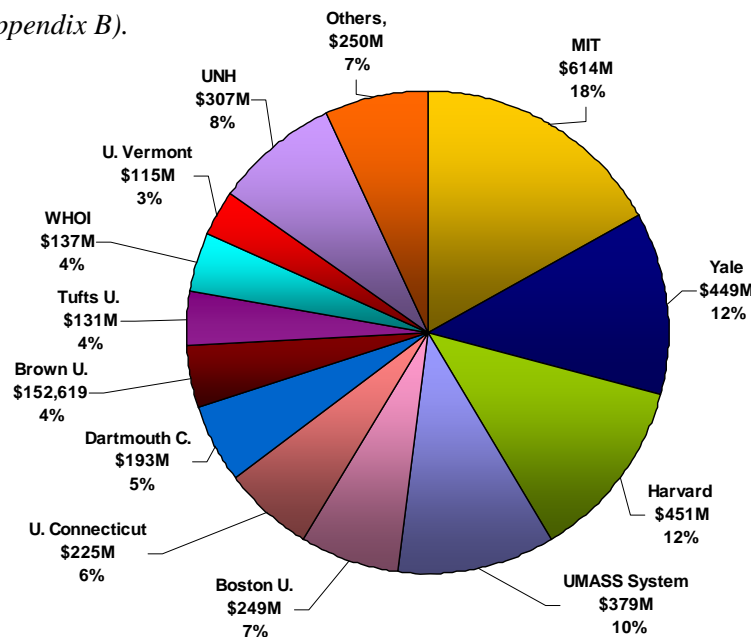
*Total R&D Expenditures: UMASS System (FY2004 – FY2008)
With Comparative Annual Growth for UMASS and All U.S. Institutions (FY2004 - FY2007)*

- **UMass S&E R&D Expenditures as Percent of MA Institutions** - Based on FY 2007 data, the UMASS System comprises 17% of the total Science and Engineering R&D Expenditures for Massachusetts institutions. (*Appendix B*).



*S&E R&D Expenditures: UMASS System and Select Institutions
As Percent of all MA Institutions, FY 2007*

- **UMass State Ranking in Science and Engineering R&D Expenditures** - Among Massachusetts colleges and universities, UMass ranks 3rd in S&E expenditures. UMass, MIT, Harvard and BU together account for 78% of the academic science and engineering R&D expenditures in the state. (Rankings based on FY 2007 data).
- **UMass Total R&D Expenditures as Percent of New England Institutions** – Based on FY 2007 data, the UMASS System comprises 10% of the total R&D Expenditures for New England institutions. (*Appendix B*).



*Science and Engineering R&D Expenditures: UMASS System and Select Institutions
As Percent of All New England Institutions*

- **UMass R&D Expenditures by Funding Source (FY 2008).** In terms of funding sources for Science and Engineering research, 66% is from the federal government, 18% is from institutional sources, 2% is from state and local government, 7% is from industry and 7% is from other sources (e.g., private foundations).
- **UMass Areas of Funding Growth.** Between the reporting cycles FY 2007-08, industry sponsorship increased 11.9%, institutional funding increased 2%, other funding increased 31.9%, and federal funding increased 11.7% from the prior year.
- **Life Sciences comprise more than half of all R&D Expenditures at UMass.** At \$247 million, life sciences constitute more than half of UMass' total R&D expenditures (56.8%). The distribution of R&D expenditures by field is:

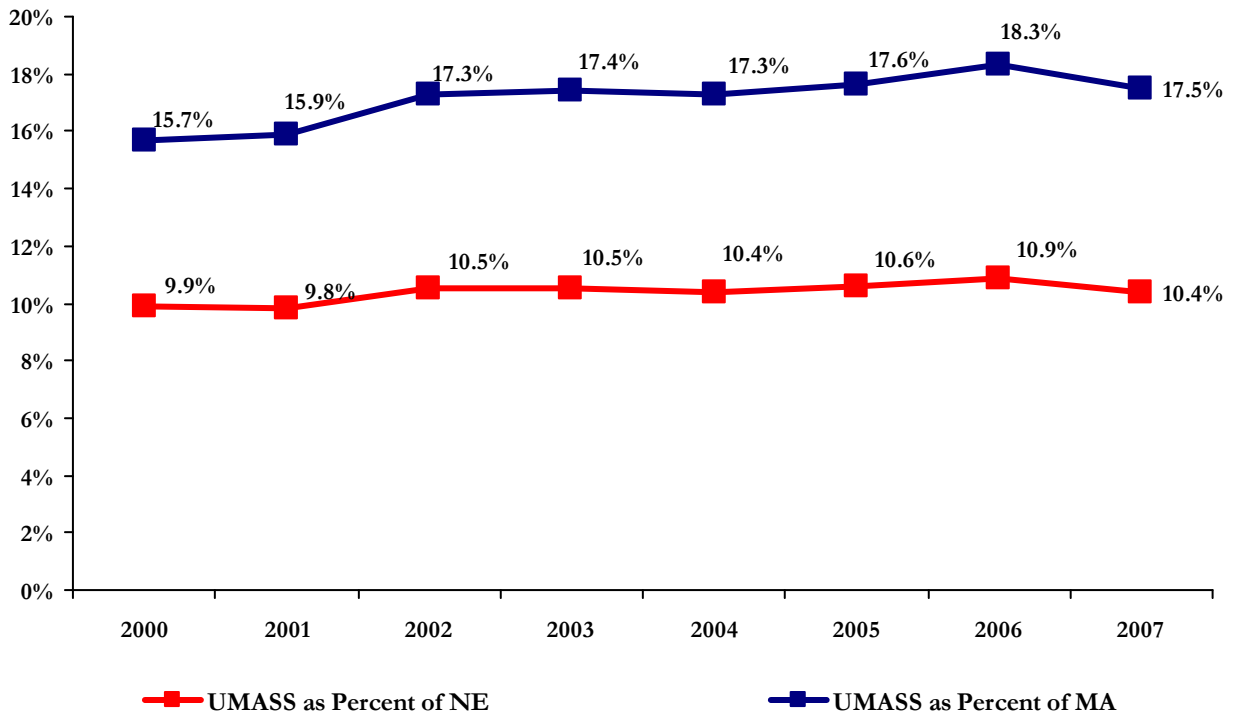
| | | | |
|------------------------|-------|--------------------------|------|
| Life Sciences | 56.8% | Social Sciences | 3.1% |
| Physical Sciences | 6.4% | Non Sciences/Engineering | 3.8% |
| Engineering | 15.5% | Psychology | 2.8% |
| Computer Sciences | 4.8% | Mathematical Sciences | 1.1% |
| Environmental Sciences | 4.7% | Other Sciences | 1.0% |

- **UMass Federal Obligations for Science and Engineering R&D Expenditures increases by nine percent.** In FY 2007, total federal obligations in Science and Engineering R&D for the UMass System were at approximately \$218.21 million. This reflects a 9% increase from FY 2007, when total federal obligations to the UMASS System were at \$244 million. (Appendix P).

Additional Highlights for UMASS and UMASS Campuses

I. UMASS Science and Engineering R&D Expenditures Percent of All New England and Massachusetts Institutions

- The University of Massachusetts Science and Engineering R&D Expenditures has grown consistently over the past few years. In FY 2000, UMASS R&D Expenditures in Science and Engineering constituted 15.7% of all of Massachusetts R&D Expenditures as compared to 17.5% in FY 2007, reflecting a 1.8% increase in percentage points. [Appendix A1].
- The University of Massachusetts Science and Engineering R&D Expenditures has also grown as a proportion of total Science and Engineering R&D Expenditures for all New England institutions. In FY 2000, UMASS R&D Expenditures in Science and Engineering constituted 9.9% of all of New England R&D Expenditures as compared to 10.4% in FY 2007 [Appendix A1].



UMASS Science and Engineering R&D Expenditures as Percent of New England and MA

- When compared to the New England region and the State of Massachusetts, UMass performance in Science and Engineering R&D Expenditures vary by field. The top field in this arena has been Math and Computer Sciences (where UMass R&D Expenditure is at 17.9% of that of the New

England institutions and 25.2% of that of all Massachusetts institutions). This is followed by the Social Sciences where UMass R&D Expenditures is at 11.1% of the total New England division and 17.6% of Massachusetts; Life Sciences, where UMass is at 10.8% of New England and 21.0% of Massachusetts; Physical Sciences, where UMass is 7.6% of New England and 9.7% of Massachusetts. [Appendix A2].

II. NSF Research and Development Expenditures Rankings Based on FY 2007 and Past Trends

UMASS System Ranking

- The UMASS System ranked 16th (of 59) in terms of Federal Obligations for Science and Engineering R&D to Systems of Universities and Colleges (FY2007). [Appendix P].

UMASS Campuses – Science and Engineering R&D Expenditures Rankings

- UM Amherst ranked 106^{th*} nationally in total S&E R&D Expenditures (FY2007). [Appendix B].
- UM Medical School ranked 101^{st*} nationally in total academic R&D Expenditures (FY2007). [Appendix B].
- UM Lowell ranked 193rd nationally in total S&E R&D expenditures (FY2007). [Appendix B].
- UM Boston ranked 217th nationally in total S&E R&D expenditures (FY2007). [Appendix B].
- UM Dartmouth ranked 235th nationally in total academic R&D expenditures (FY2007). [Appendix B].

UMASS Campuses – Prominent Rankings

- UM Amherst has consistently ranked among the top 20 universities and colleges in total R&D Expenditures in the Computer Science field (FY2003-2007). In FY 2007, UM Amherst ranked 17th among the first 100 institutions. [Appendix F].
- UM Boston has significantly improved its ranking among the first 100 institutions for academic R&D Expenditures in the Social Sciences, from 66th in FY2003 to 60th in FY2007. [Appendix M].
- From FY2003-FY2007, UM Dartmouth's ranking has ranged between 67th-71st among the first 100 institutions, for total academic R&D Expenditures in the Environmental Sciences. In FY2007, UM Dartmouth ranked 68th. [Appendix H].

*Based on revised data for FY2007.

- UM Lowell among the top 100 institutions for total R&D Expenditures in the Environmental Sciences in FY2007. *[Appendix H]*.
- UM Medical School's ranking for colleges and universities Total R&D Expenditures in Life Sciences has consistently been high between FY2003-2007. In FY2007, UM Medical School ranked 75th among the first 150 institutions in this category. *[Appendix I]*.

Additional Rankings

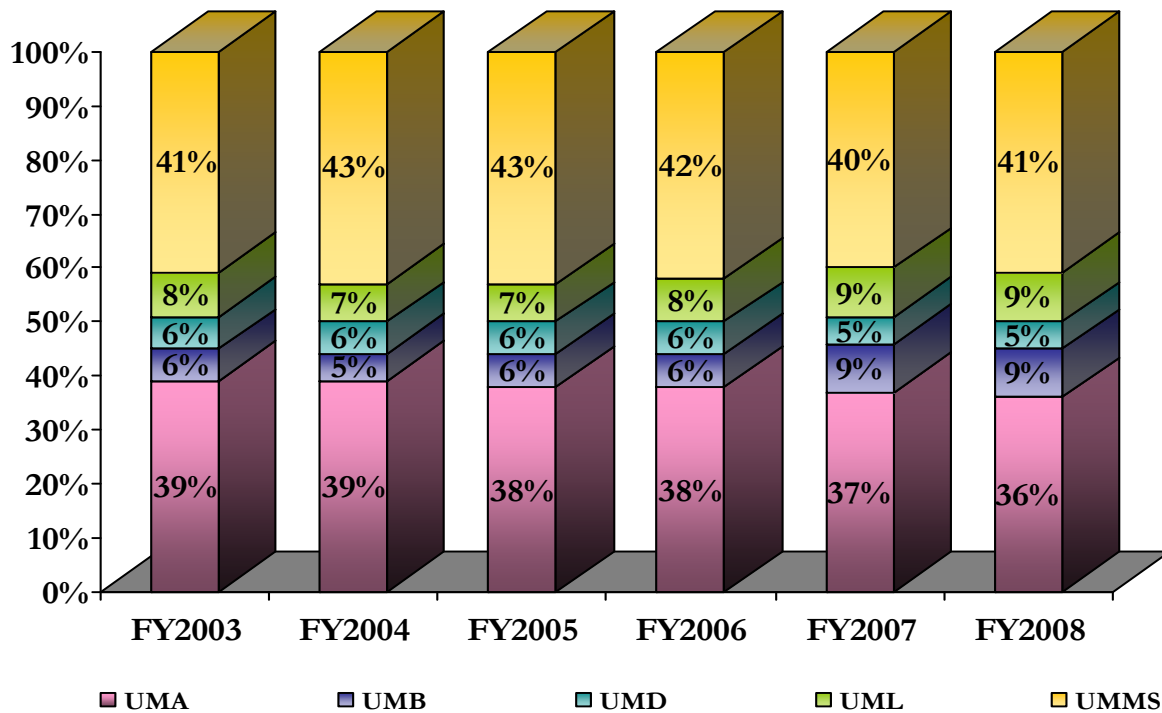
- UM Amherst has consistently ranked among the first 100 universities and colleges in R&D Expenditures in Engineering. UM Amherst's ranking in this field has significantly increased, from 83rd in FY2003 to 48th in FY2007. *[Appendix G]*.
- UM Amherst has consistently ranked among the first 100 universities and colleges for R&D Expenditures in Mathematical Sciences. In FY 2007, UM Amherst ranked 53rd. *[Appendix J]*.
- UM Amherst has consistently ranked among the first 100 institutions for R&D Expenditures in the Physical Sciences. UM Amherst's ranking has ranged from 28th-84th in this field. *[Appendix K]*.
- UM Amherst has improved its ranking among the first 100 institutions for academic R&D Expenditures in Psychology, from 60th in FY2003 to 57th in FY2007. *[Appendix L]*.

A. TOTAL R&D EXPENDITURES

A. TOTAL R&D EXPENDITURES FY2003-FY2008

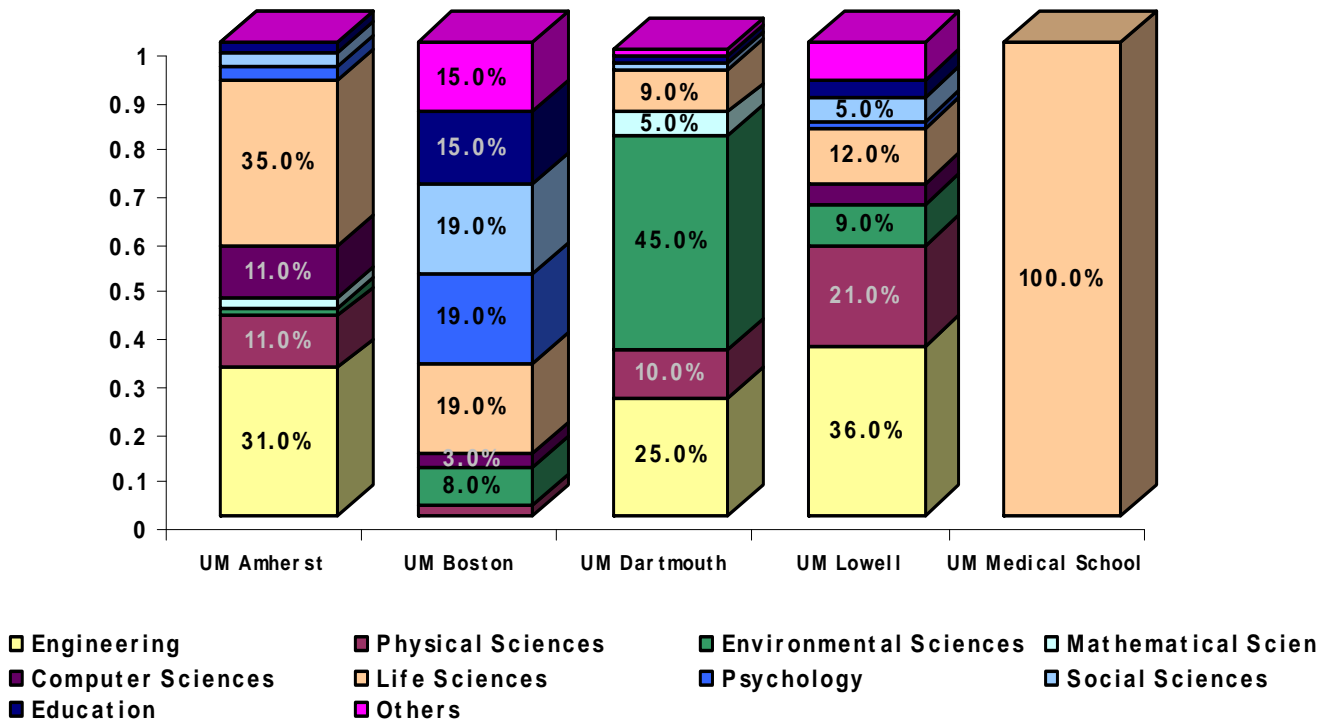
1. Total FY2008 R&D Expenditures for the University of Massachusetts System was reported at \$435.2 million, which represents a 9.5% increase from the FY2007 total of \$397 million.
2. A majority of UMASS Campuses reported a significant increase in growth between FY2007-FY2008.
3. Within the UMASS System, a little over two-fifths (41%) of the total R&D Expenditures is attributed to the UMass Medical School and over one-third (36%) to UMass Amherst.
4. The other campuses (UMass Boston, UMass Dartmouth and UMass Lowell) have gradually increased their proportion of the System Total R&D Expenditures, from 20% to 23% (FY2003-FY2008).

**UMASS Campuses - Total R&D Expenditures
(As a Percent of UMASS System)
FY2003-FY2008**



5. R&D expenditures activities at UMASS campuses vary by field. In FY2008, while UMass Amherst's top three R&D Expenditures areas were Life Sciences (35%), Engineering (31%), and Physical Sciences (11%), UMass Boston's concentration was primarily in the Social Sciences (19%), Life Sciences (19%), and Psychology (19%). UMass Dartmouth's major areas of concentration were in the fields of Environmental Sciences (45%) and Engineering (25%), and for UMass Lowell, Engineering (36%) and Physical Sciences (21%). The UMass Medical School had 100% of its R&D Expenditures in the Life Sciences.

UMass Campuses: Total R&D Expenditures by Field (FY2008)

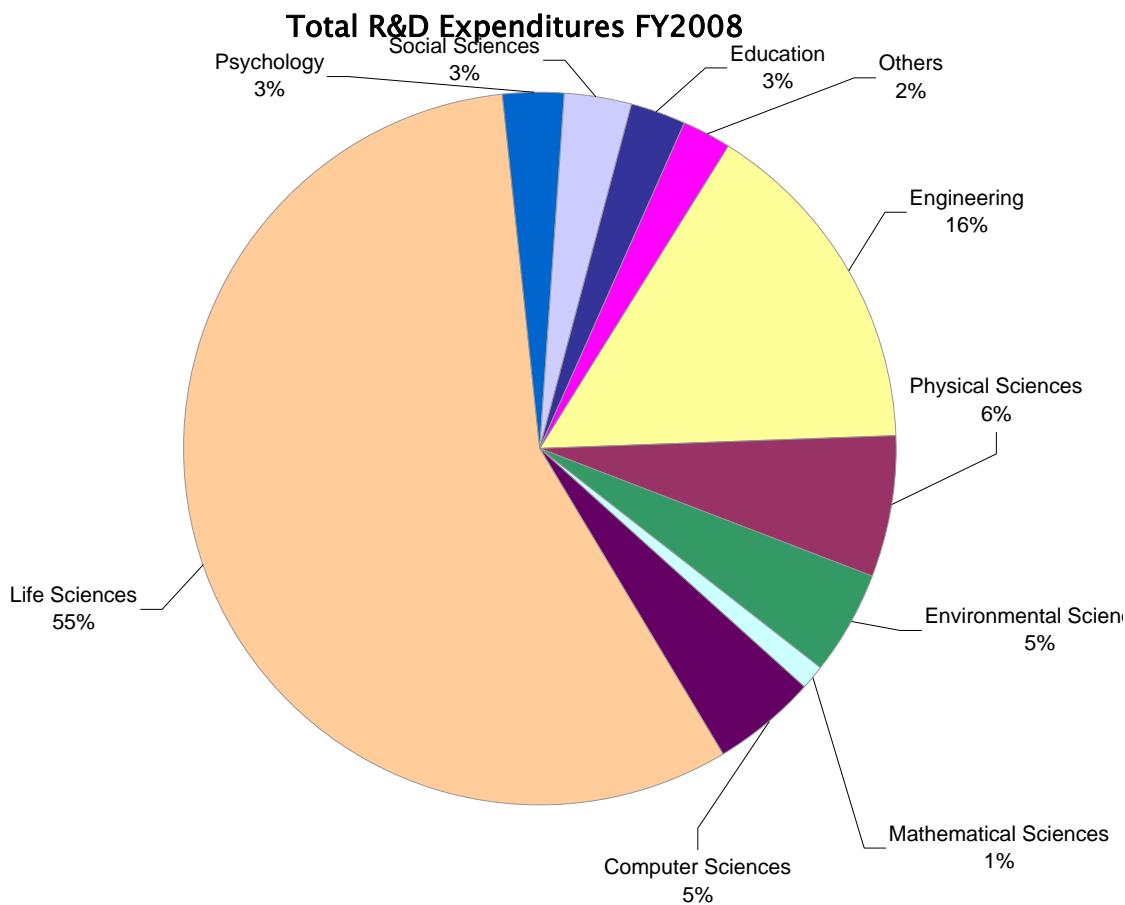
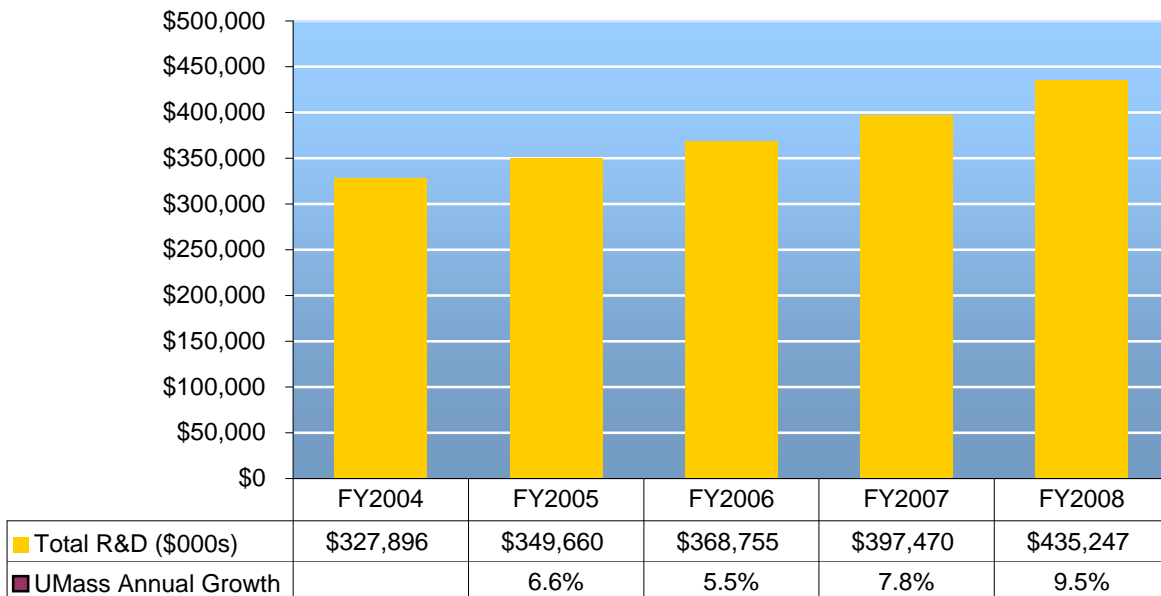


A. TOTAL R&D EXPENDITURES

DATA AND CHARTS

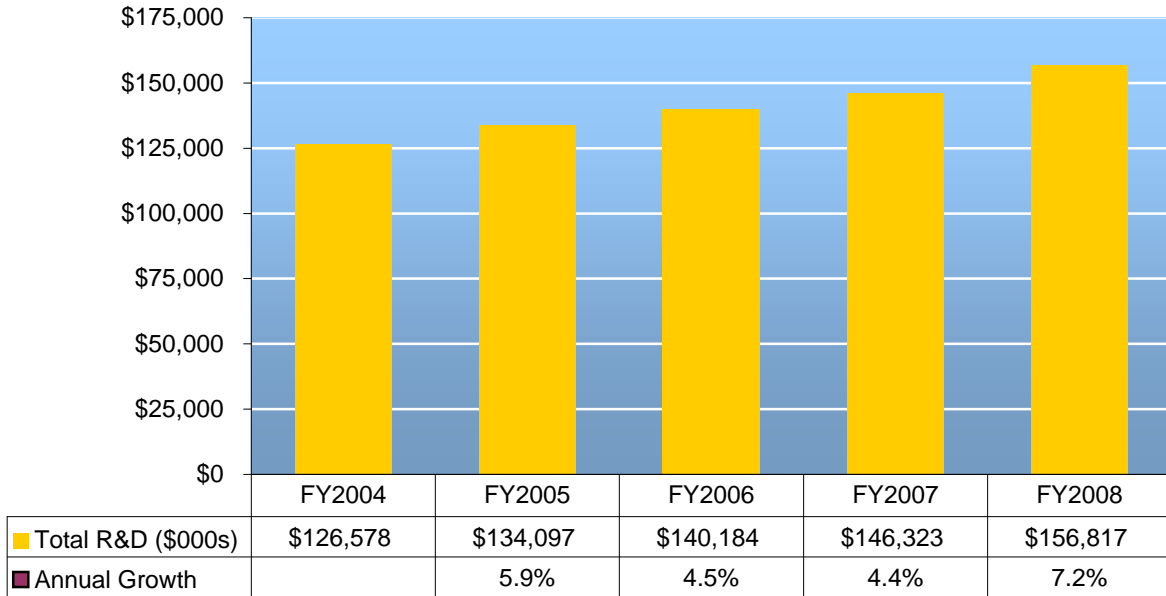
UMASS System

Total R&D Expenditures FY2004 – FY2008

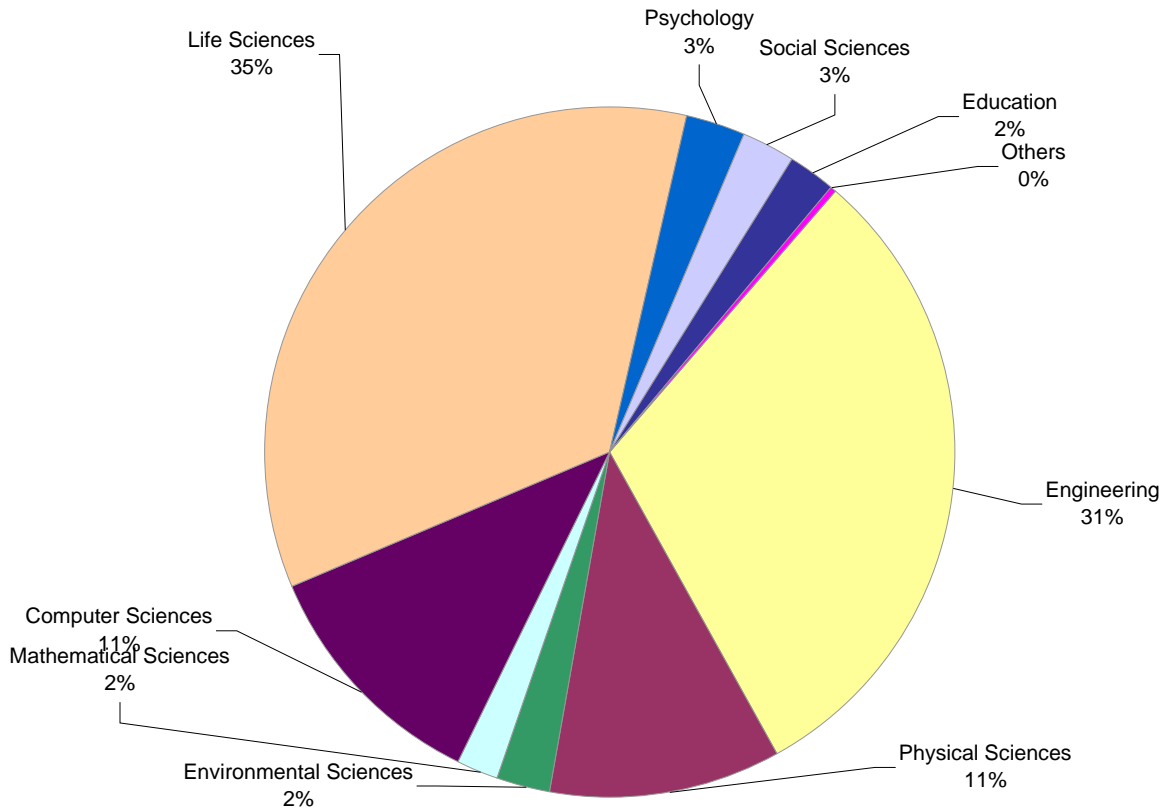


Amherst

Total R&D Expenditures FY2004 – FY2008

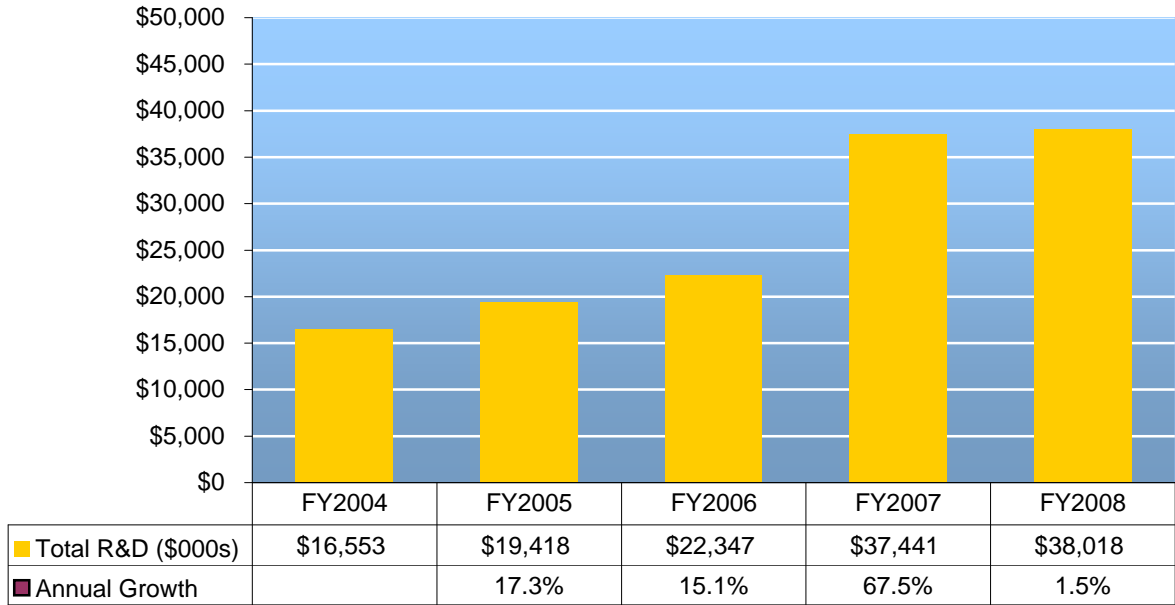


Total R&D Expenditures FY2008

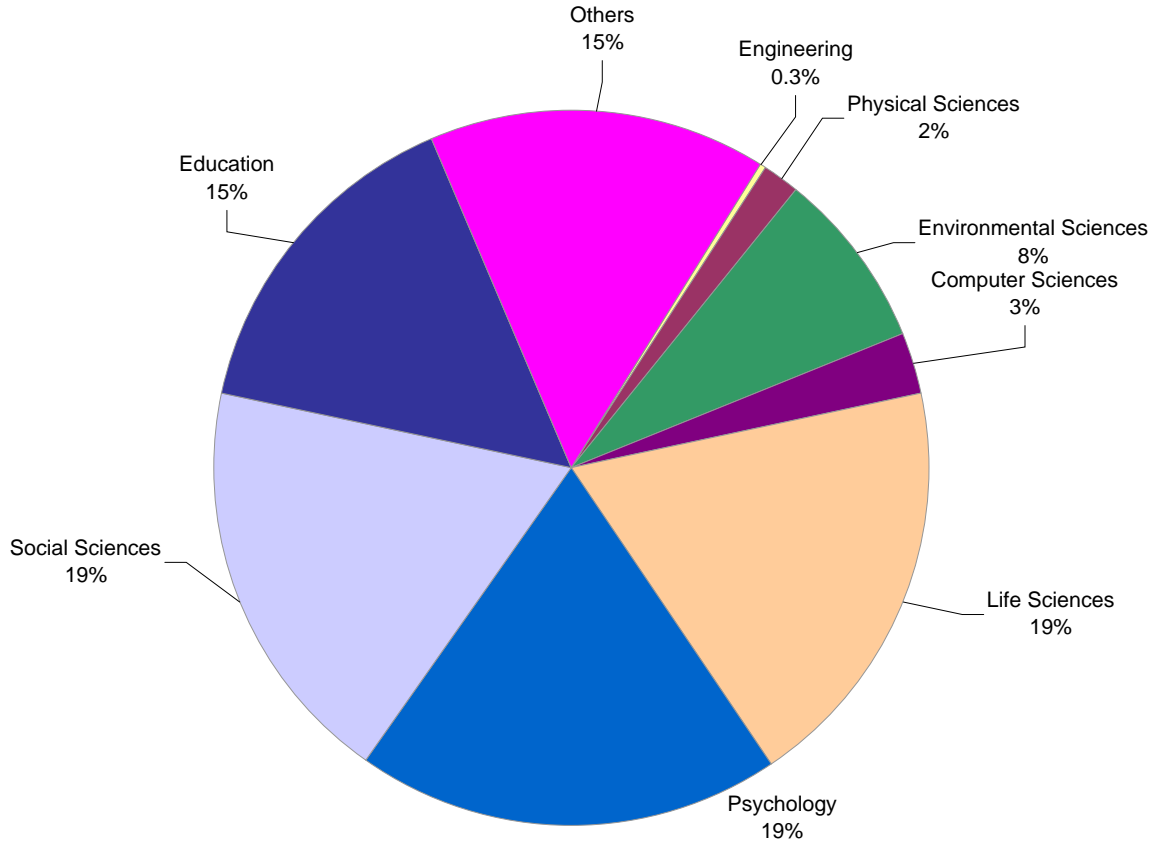


Boston

Total R&D Expenditures FY2004 – FY2008

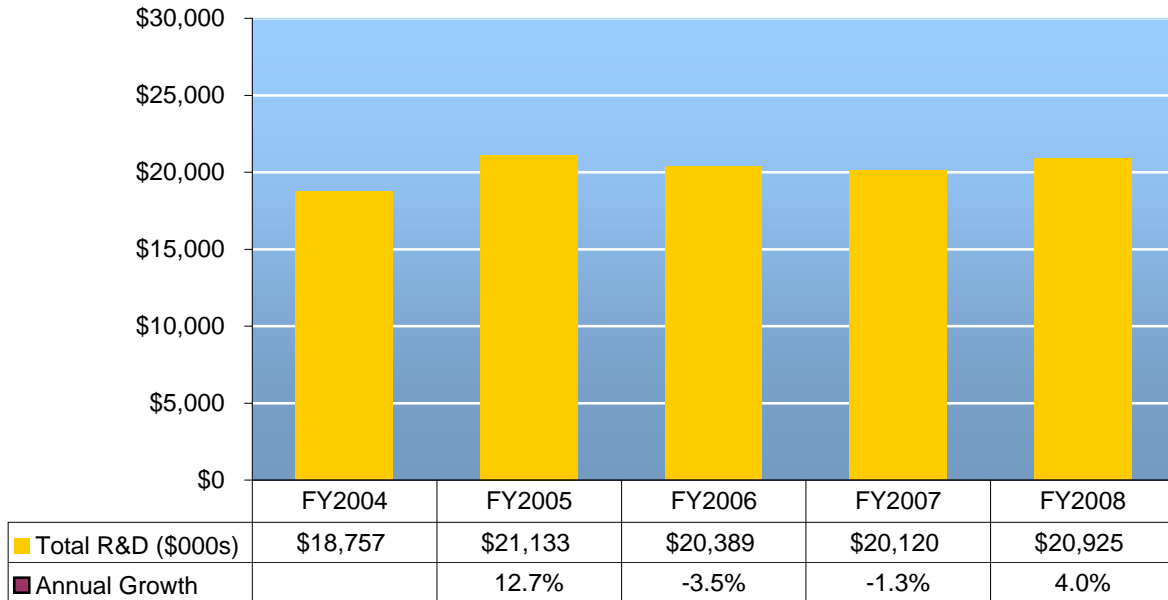


Total R&D Expenditures FY2008

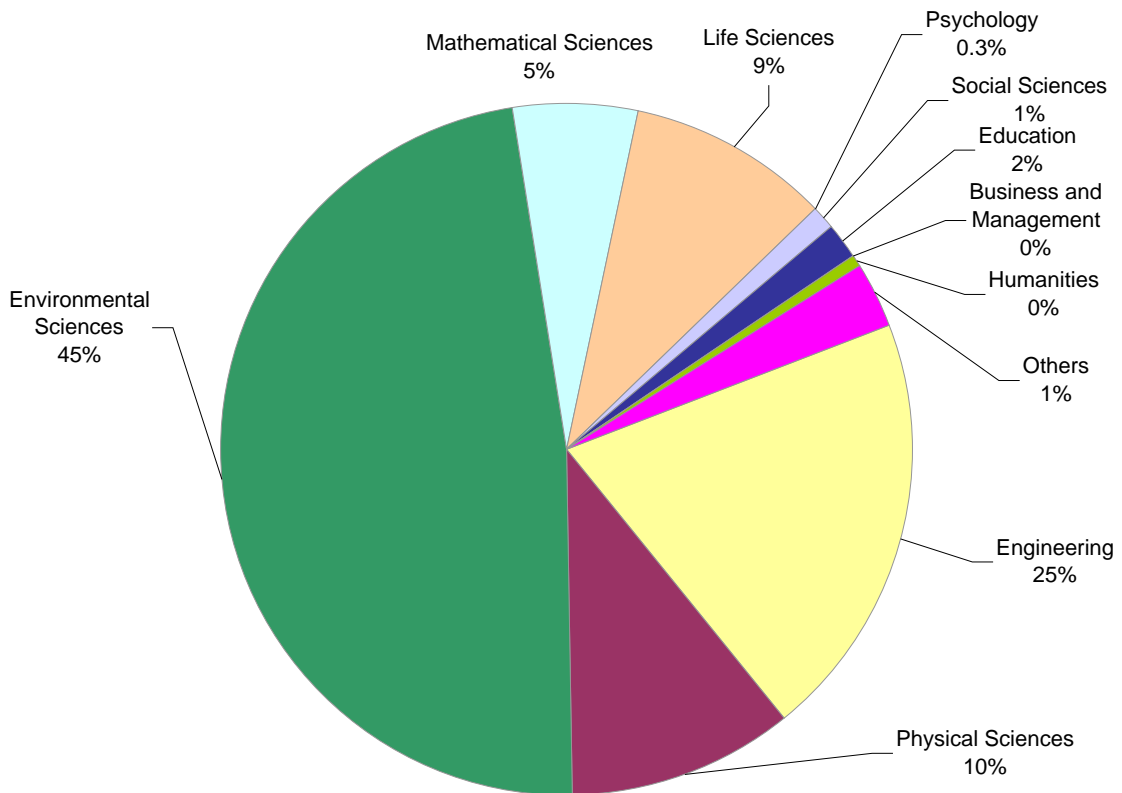


Dartmouth

Total R&D Expenditures FY2004 – FY2008

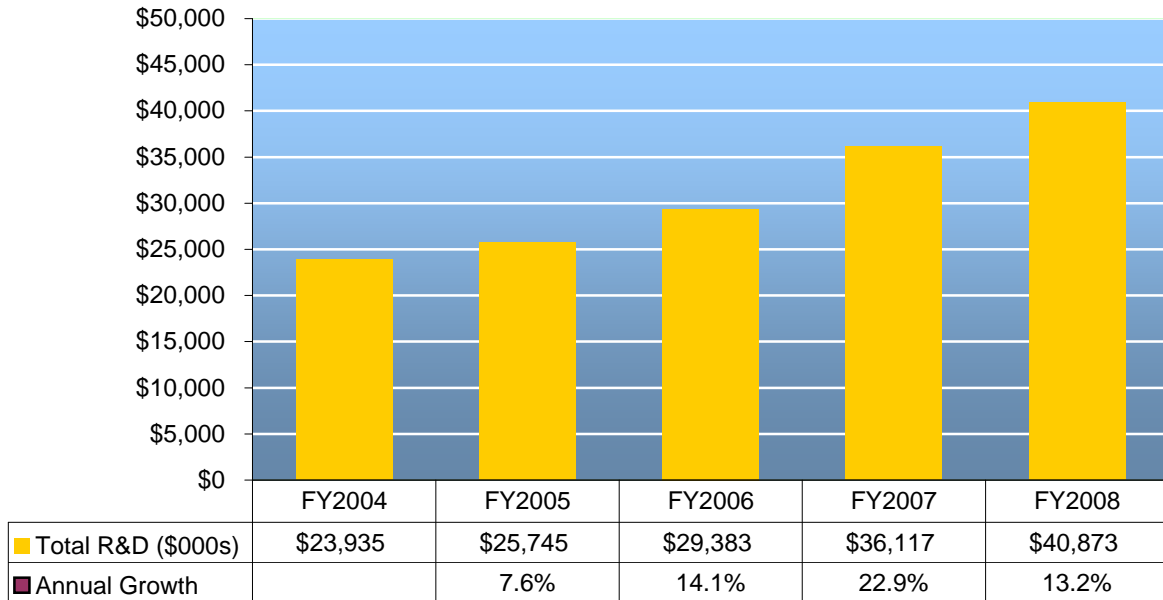


Total R&D Expenditures FY2008

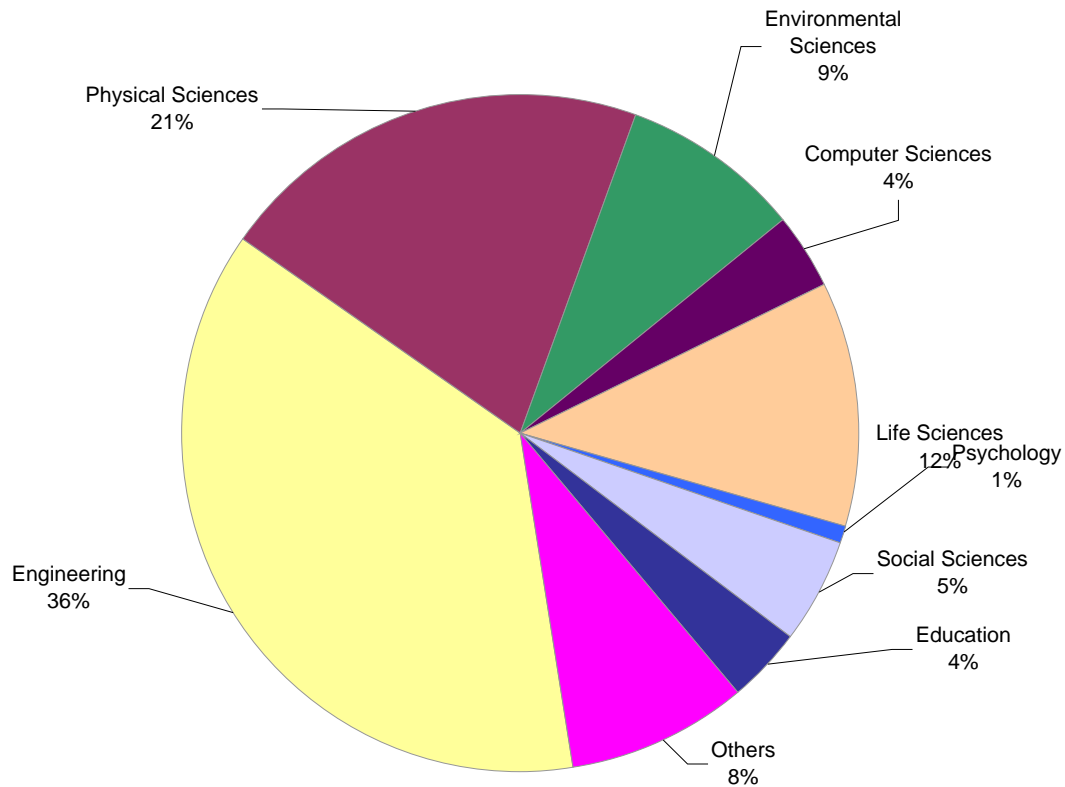


Lowell

Total R&D Expenditures FY2004 – FY2008

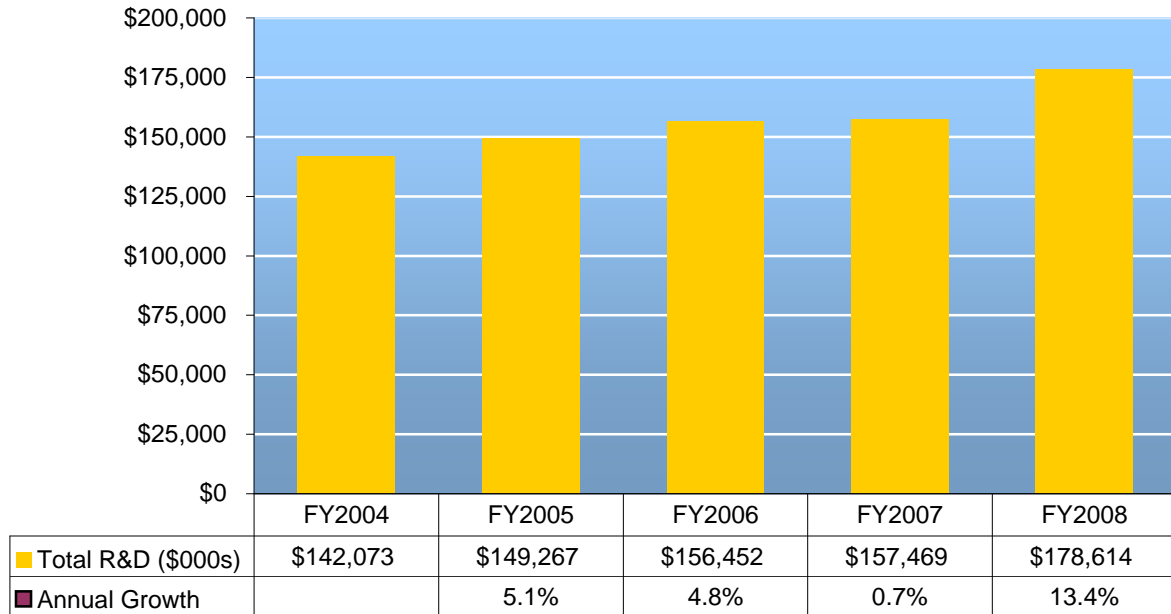


Total R&D Expenditures FY2008



Worcester

Total R&D Expenditures FY2004 – FY2008

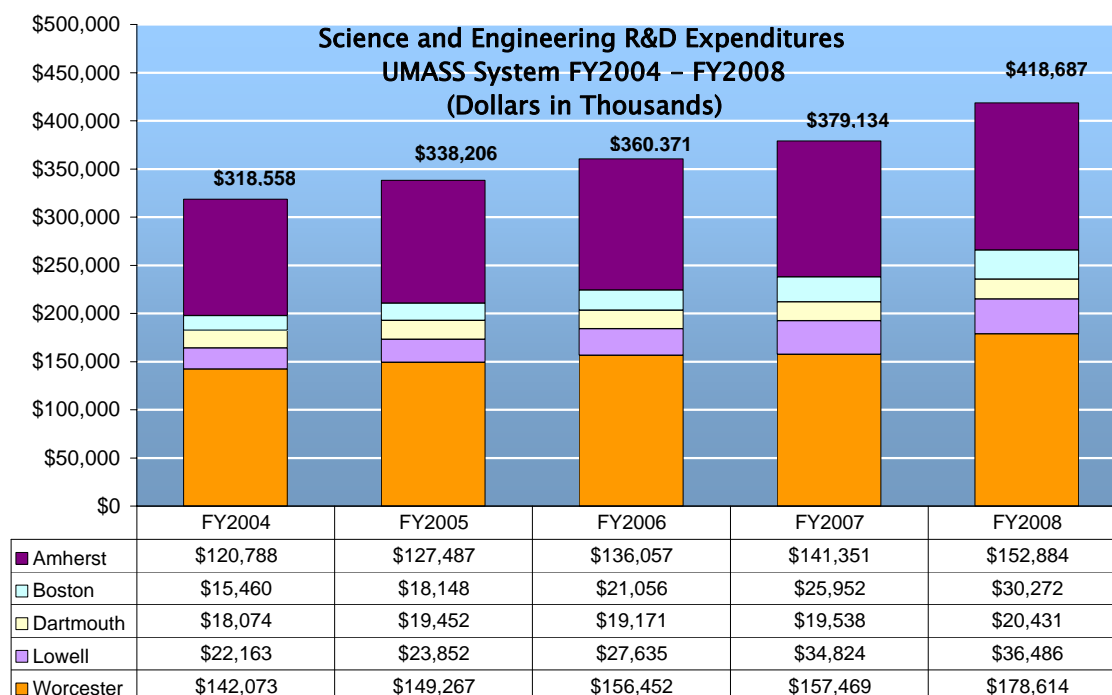


All of Worcester's R&D
expenditures are in the life
sciences.

**B. SCIENCE AND ENGINEERING
R&D EXPENDITURES**

B. 1. SCIENCE AND ENGINEERING R&D EXPENDITURES BY FIELD

1. There has been consistent growth in Science and Engineering R&D Expenditures over the past five fiscal cycles. Overall, between FY2004 and FY2008, Science and Engineering R&D Expenditures growth has ranged from 13% (UMass Dartmouth) to 65% (UMass Lowell). All five campuses, as well as the UMASS System has witnessed double-digit growth in this area.



2. UMass Amherst reflects its strength in Computer Sciences, comprising 85% of the entire UMASS System's R&D expenditures in this field, at \$17.8M. In FY2007, UMass Amherst ranked 17th among the first hundred institutions in total R&D Expenditures in the field of Computer Science (NSF Survey Rankings, Appendix F).

3. UMass Boston comprises the highest proportion of R&D Expenditures in the Non-Sciences and Engineering field. In FY2008, 20.4% of the total R&D Expenditures activities in UMass Boston occurred within the non-sciences field. At \$7.75M, this comprises 47% of all of the Non-Sciences and Engineering R&D Expenditures for the UMASS System.

4. UMass Dartmouth's prominence (among the UMASS campuses) in Environmental Sciences is reflected by the fact that it comprises almost half (49%, or \$10M) of the total R&D Expenditures in this field. UMass Dartmouth has consistently ranked among the first hundred institutions for R&D Expenditures in the Environmental Sciences (NSF Survey). In FY2007, UMass Dartmouth ranked 68th in this field, improving its ranking from the prior year (70th) (Appendix H).

5. Over one-third (37.1%) of UMass Lowell's R&D Expenditures in FY2008 were in the field of Engineering. At \$15.2M, this comprises 23% of the System R&D Expenditures in Engineering. Prominent areas within this field for the UMass Lowell campus include Mechanical Engineering (\$3.2M) Metallurgical Engineering and Materials Sciences (\$2.5M) and Electrical Engineering (\$1.8M).

6. For the UMass Medical School, 100% of R&D Expenditures is in the Life Sciences field. At \$178.6M, this comprises approximately 72% of the System total R&D Expenditures in the Life Sciences.

Total R&D Expenditures By Field FY2008

| FIELD | UMA FY2008 | % of UMA Total | % of Field | UMB FY2008 | % of UMB Total | % of Field | UMD FY2008 | % of UMD Total | % of Field | UML FY2008 | % of UML Total | % of Field | UMW FY2008 | % of UMW Total | % of Field | System FY2008 | % of Total |
|---------------------------------------|-------------------|----------------------|---------------|------------------|----------------------|---------------|------------------|----------------------|---------------|------------------|----------------------|---------------|-------------------|----------------------|---------------|-------------------|---------------|
| Engineering (Total) | \$ 48,028 | 30.6% | 71.1% | \$ 102 | 0.3% | 0.2% | \$ 4,214 | 20.1% | 6.2% | \$ 15,178 | 37.1% | 22.5% | \$ - | | | \$ 67,522 | 15.5% |
| Aeronautical & Astronomical | \$ - | | | \$ - | | | \$ - | 0.0% | #DIV/0! | \$ - | | | \$ - | | | \$ - | 0.0% |
| Bioengineering/Biomedical | \$ - | | | \$ - | | | \$ - | 0.0% | #DIV/0! | \$ - | | | \$ - | | | \$ - | 0.0% |
| Chemical | \$ 20,294 | 12.9% | 97.9% | \$ - | | | \$ - | | | \$ 439 | 1.1% | 2.1% | \$ - | | | \$ 20,733 | 4.8% |
| Civil | \$ 6,472 | 4.1% | 82.2% | \$ - | | | \$ 847 | 4.0% | 10.8% | \$ 550 | 1.3% | 7.0% | \$ - | | | \$ 7,869 | 1.8% |
| Electrical | \$ 14,182 | 9.0% | 84.7% | \$ 101 | 0.3% | 0.6% | \$ 649 | 3.1% | 3.9% | \$ 1,818 | 4.4% | 10.9% | \$ - | | | \$ 16,750 | 3.8% |
| Mechanical | \$ 6,501 | 4.1% | 64.7% | \$ - | | | \$ 393 | 1.9% | 3.9% | \$ 3,159 | 7.7% | 31.4% | \$ - | | | \$ 10,053 | 2.3% |
| Metallurgical & Materials | \$ - | | | \$ - | | | \$ 1,126 | 5.4% | 31.2% | \$ 2,483 | 6.1% | 68.8% | \$ - | | | \$ 3,609 | 0.8% |
| Other | \$ 579 | 0.4% | 6.8% | \$ 1 | 0.00% | 0.0% | \$ 1,199 | 5.7% | 14.1% | \$ 6,729 | 16.5% | 79.1% | \$ - | | | \$ 8,508 | 2.0% |
| Physical Sciences (Total) | \$ 16,708 | 10.7% | 59.7% | \$ 584 | 1.5% | 2.1% | \$ 2,175 | 10.4% | 7.8% | \$ 8,526 | 20.9% | 30.5% | \$ - | | | \$ 27,993 | 6.4% |
| Astronomy | \$ 3,537 | 2.3% | 100.0% | \$ - | | | \$ - | | | \$ - | | | \$ - | | | \$ 3,537 | 0.8% |
| Chemistry | \$ 7,342 | 4.7% | 66.3% | \$ 283 | 0.7% | 2.6% | \$ 1,796 | 8.6% | 16.2% | \$ 1,651 | 4.0% | 14.9% | \$ - | | | \$ 11,072 | 2.5% |
| Physics | \$ 5,829 | 3.7% | 43.6% | \$ 301 | 0.8% | 2.2% | \$ 379 | 1.8% | 2.8% | \$ 6,875 | 16.8% | 51.4% | \$ - | | | \$ 13,384 | 3.1% |
| Other | \$ - | | | \$ - | | | \$ - | | | \$ - | | | \$ - | | | \$ - | 0.0% |
| Environmental Sciences (Total) | \$ 3,892 | 2.5% | 19.0% | \$ 3,128 | 8.2% | 15.2% | \$ 10,016 | 47.9% | 48.8% | \$ 3,499 | 8.6% | 17.0% | \$ - | | | \$ 20,535 | 4.7% |
| Atmospheric | \$ - | | | \$ - | | | \$ - | | | \$ - | | | \$ - | | | \$ - | |
| Earth Sciences | \$ 2,901 | 1.8% | 44.6% | \$ 99 | 0.3% | 1.5% | \$ - | | | \$ 3,499 | 8.6% | 53.8% | \$ - | | | \$ 6,499 | 1.5% |
| Oceanography | \$ 49 | 0.0% | 0.4% | \$ 2,131 | 5.6% | 17.5% | \$ 10,016 | 47.9% | 82.1% | \$ - | | | \$ - | | | \$ 12,196 | 2.8% |
| Other | \$ 942 | | | \$ 898 | 2.4% | 48.8% | \$ - | | | \$ - | | | \$ - | | | \$ 1,840 | 0.4% |
| Mathematical Sciences (Total) | \$ 3,193 | 2.0% | 68.9% | \$ 26 | 0.1% | 0.6% | \$ 1,235 | 5.9% | 26.7% | \$ 177 | 0.4% | 3.8% | \$ - | | | \$ 4,631 | 1.1% |
| Computer Sciences (Total) | \$ 17,808 | 11.4% | 85.0% | \$ 1,088 | 2.9% | 5.2% | \$ 484 | 2.3% | 2.3% | \$ 1,561 | 3.8% | 7.5% | \$ - | | | \$ 20,941 | 4.8% |
| Life Sciences (Total) | \$ 54,886 | 35.0% | 22.2% | \$ 7,138 | 18.8% | 2.9% | \$ 1,925 | 9.2% | 0.8% | \$ 4,754 | 11.6% | 1.9% | \$ 178,614 | 100.0% | 72.2% | \$ 247,317 | 56.8% |
| Agricultural | \$ 24,478 | 15.6% | 97.6% | \$ - | | | \$ 602 | 2.9% | 2.4% | \$ - | | | \$ - | | | \$ 25,080 | 5.8% |
| Biological | \$ 22,823 | 14.6% | 24.6% | \$ 3,384 | 8.9% | 3.7% | \$ 970 | 4.6% | 1.0% | \$ 1,477 | 3.6% | 1.6% | \$ 63,980 | 35.8% | 69.1% | \$ 92,634 | 21.3% |
| Medical | \$ 6,575 | 4.2% | 6.4% | \$ 2,934 | 7.7% | | \$ - | | | \$ - | | | \$ 93,501 | 52.3% | 90.8% | \$ 103,010 | 23.7% |
| Other | \$ 1,010 | 0.6% | 3.8% | \$ 820 | 2.2% | 3.1% | \$ 353 | 1.7% | 1.3% | \$ 3,277 | 8.0% | 12.32% | \$ 21,133 | 11.8% | 79.5% | \$ 26,593 | 6.1% |
| Psychology (Total) | \$ 4,440 | 2.8% | 36.9% | \$ 7,255 | 19.1% | 60.3% | \$ 14 | 0.1% | 0.1% | \$ 313 | 0.8% | 2.6% | \$ - | | | \$ 12,022 | 2.8% |
| Social Sciences (Total) | \$ 3,929 | 2.5% | 29.5% | \$ 7,113 | 18.7% | 53.4% | \$ 225 | 1.1% | 1.7% | \$ 2,048 | 5.0% | 15.4% | \$ - | | | \$ 13,315 | 3.1% |
| Economics | \$ 1,514 | 1.0% | 64.6% | \$ 788 | 2.1% | 33.6% | \$ 11 | 0.1% | 0.5% | \$ 31 | 0.1% | 1.3% | \$ - | | | \$ 2,344 | 0.5% |
| Political Science | \$ 585 | 0.4% | 25.6% | \$ 1,516 | 4.0% | 66.3% | \$ 181 | 0.9% | 7.9% | \$ 4 | 0.0% | 0.2% | \$ - | | | \$ 2,286 | 0.5% |
| Sociology | \$ 1,117 | 0.7% | 45.9% | \$ 1,304 | 3.4% | 53.6% | \$ 11 | 0.1% | 0.5% | \$ 3 | 0.0% | 0.1% | \$ - | | | \$ 2,435 | 0.6% |
| Other | \$ 713 | 0.5% | 11.4% | \$ 3,505 | 9.2% | 56.1% | \$ 22 | 0.1% | 0.4% | \$ 2,010 | 4.9% | 32.2% | \$ - | | | \$ 6,250 | 1.4% |
| Other Sciences (Total) | \$ - | | | \$ 3,838 | 10.1% | 87.0% | \$ 143 | 0.7% | 3.2% | \$ 430 | 1.1% | 9.7% | \$ - | | | \$ 4,411 | 1.0% |
| TOTAL, SCI & ENG FIELDS | \$ 152,884 | 97.5% | 36.5% | \$ 30,272 | 79.6% | 7.2% | \$ 20,431 | 97.6% | 4.9% | \$ 36,486 | 89.3% | 8.7% | \$ 178,614 | 100.0% | 42.7% | \$ 418,687 | 96.2% |

Total R&D Expenditures By Field FY2008

| FIELD | UMA FY2008 | % of UMA Total | % of Field | UMB FY2008 | % of UMB Total | % of Field | UMD FY2008 | % of UMD Total | % of Field | UML FY2008 | % of UML Total | % of Field | UMW FY2008 | % of UMW Total | % of Field | System FY2008 | % of Total |
|--|-------------------|----------------------|---------------|------------------|----------------------|---------------|------------------|----------------------|---------------|------------------|----------------------|---------------|-------------------|----------------------|---------------|-------------------|---------------|
| Education | \$ 3,298 | 2.1% | 30.0% | \$ 5,786 | 15.2% | 52.6% | \$ 388 | 1.9% | 3.5% | \$ 1,523 | 3.7% | 13.9% | \$ - | | | \$ 10,995 | 2.5% |
| Law | \$ 153 | 0.1% | 25.6% | \$ 12 | 0.0% | 2.0% | \$ - | | | \$ 433 | 1.1% | 72.4% | \$ - | | | \$ 598 | 0.1% |
| Humanities | \$ 87 | 0.1% | 7.7% | \$ 955 | 2.5% | 84.2% | \$ 92 | 0.4% | 8.1% | \$ - | | | \$ - | | | \$ 1,134 | 0.3% |
| Visual and Performing Arts | \$ 23 | 0.0% | 18.1% | \$ 71 | 0.2% | 55.9% | \$ - | 0.0% | 0.0% | \$ 33 | 0.08% | 26.0% | \$ - | | | \$ 127 | 0.03% |
| Business and Management | \$ 240 | 0.2% | 24.7% | \$ 570 | 1.5% | 58.6% | \$ - | 0.0% | 0.0% | \$ 162 | 0.4% | 16.7% | \$ - | | | \$ 972 | 0.2% |
| Comm., Journalism & Library Sci | \$ 132 | | | \$ 33 | 0.1% | 19.6% | \$ - | | | \$ 3 | 0.0% | 1.8% | \$ - | | | \$ 168 | 0.0% |
| Social Work | \$ - | | | \$ - | | | \$ - | | | \$ - | | | \$ - | | | \$ - | |
| Other Non-Science and Engin. | \$ - | | | \$ 319 | 0.8% | 12.4% | \$ 14 | 0.1% | 0.5% | \$ 2,233 | 5.5% | 87.0% | \$ - | | | \$ 2,566 | 0.6% |
| TOTAL, NON-SCI & ENG FIELDS | \$ 3,933 | 2.5% | 23.8% | \$ 7,746 | 20.4% | 46.8% | \$ 494 | 2.4% | 3.0% | \$ 4,387 | 10.7% | 26.5% | \$ - | | | \$ 16,560 | 3.8% |
| TOTAL, SCI & ENG FIELDS | \$ 152,884 | 97.5% | 36.5% | \$ 30,272 | 79.6% | 7.2% | \$ 20,431 | 97.6% | 4.9% | \$ 36,486 | 89.3% | 8.7% | \$ 178,614 | 100.0% | 42.7% | \$ 418,687 | 96.2% |
| GRAND TOTAL | \$ 156,817 | | 36.0% | \$ 38,018 | | 8.7% | \$ 20,925 | | 4.8% | \$ 40,873 | | 9.4% | \$ 178,614 | | 41.0% | \$ 435,247 | 100.0% |

Source: Campus NSF surveys. All dollars are in thousands.

Note: % of Total is the percentage each field represents of total campus or system R&D expenditures in all fields.

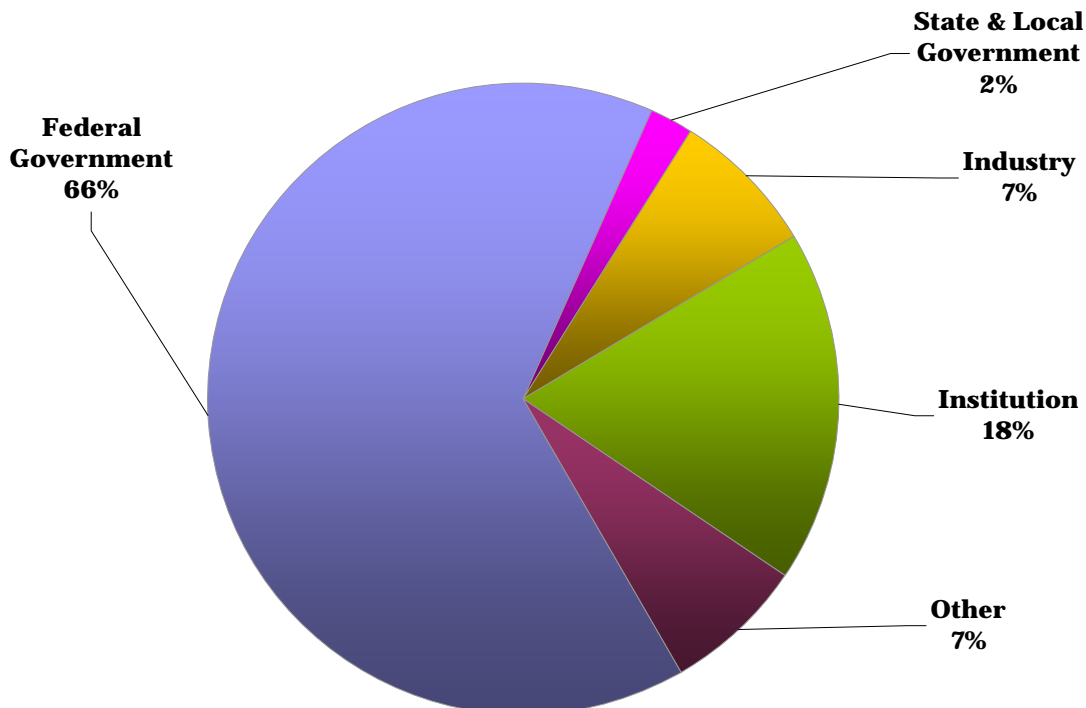
% of Field is the percentage of the UMass system's expenditures in a particular field represented by that campus.

B. 2. SCIENCE AND ENGINEERING R&D EXPENDITURES BY SOURCE OF FUNDS

1. In FY2008, the largest source of R&D Expenditure Funds for the UMASS System was the Federal Government (66%), followed by Institution (18%), Industry (7%), Other (7%), and State and Local Government (3%).

2. The UMASS System generally reflects national trends in terms of the overall distribution R&D Expenditures by source of funds, with some interesting variations within each category of funds. In both instances, the largest source of funds is the federal government, followed by institutional funds. For comparison purposes, FY2007 data by source of funds was analyzed. For the UMASS System, 64% of Science and Engineering R&D Expenditures were funded by the federal government, as compared to 56% for all public U.S. institutions. Similarly, R&D Expenditure funds from institutional sources for the UMASS System was at 20% as compared to 23% for all U.S. public institutions. For the UMASS System, state and local funds comprised 3% of all Science and Engineering R&D expenditures, as compared to 8% for all U.S. public institutions. (NSF Survey, FY2007 data).

UMass Science and Engineering R&D Expenditures by Source of Funds (FY2008)



**Science and Engineering R&D Expenditures by Source
FY2004 – FY2008**

| | Total R&D Expenditures | | | | | | | | |
|------------------|------------------------|------------------|------------------|------------------|------------------|------------------------------|--------------|------------------------------|--------------|
| | FY04 | FY05 | FY06 | FY07 | FY08 | 5-Year Change FY04 - FY08 | | 1-Year Change FY07 - FY08 | |
| | | | | | | \$ | % | \$ | % |
| Amherst | \$120,788 | \$127,487 | \$136,057 | \$141,351 | \$152,884 | \$32,096 | 26.6% | \$11,533 | 8.2% |
| Boston | \$15,460 | \$18,148 | \$21,056 | \$25,952 | \$30,272 | \$14,812 | 95.8% | \$4,320 | 16.6% |
| Dartmouth | \$18,074 | \$19,452 | \$19,171 | \$19,538 | \$20,431 | \$2,357 | 13.0% | \$893 | 4.6% |
| Lowell | \$22,163 | \$23,852 | \$27,635 | \$34,824 | \$36,486 | \$14,323 | 64.6% | \$1,662 | 4.8% |
| Worcester | \$142,073 | \$149,267 | \$156,452 | \$157,469 | \$178,614 | \$36,541 | 25.7% | \$21,145 | 13.4% |
| System | \$318,558 | \$338,206 | \$360,371 | \$379,134 | \$418,687 | \$100,129 | 31.4% | \$39,553 | 10.4% |

| | Federal R&D Expenditures | | | | | | | | |
|------------------|--------------------------|------------------|------------------|------------------|------------------|------------------------------|--------------|------------------------------|--------------|
| | FY04 | FY05 | FY06 | FY07 | FY08 | 5-Year Change FY04 - FY08 | | 1-Year Change FY07 - FY08 | |
| | | | | | | \$ | % | \$ | % |
| Amherst | \$65,452 | \$66,921 | \$69,642 | \$71,974 | \$79,736 | \$14,284 | 21.8% | \$7,762 | 10.8% |
| Boston | \$5,412 | \$6,326 | \$8,610 | \$9,152 | \$12,001 | \$6,589 | 121.7% | \$2,849 | 31.1% |
| Dartmouth | \$9,199 | \$9,852 | \$9,515 | \$11,456 | \$13,087 | \$3,888 | 42.3% | \$1,631 | 14.2% |
| Lowell | \$16,655 | \$17,608 | \$18,741 | \$20,045 | \$22,406 | \$5,751 | 34.5% | \$2,361 | 11.8% |
| Worcester | \$126,162 | \$130,680 | \$136,141 | \$131,226 | \$145,113 | \$18,951 | 15.0% | \$13,887 | 10.6% |
| System | \$222,880 | \$231,387 | \$242,649 | \$243,853 | \$272,343 | \$49,463 | 22.2% | \$28,490 | 11.7% |

| | State & Local Government R&D Expenditures | | | | | | | | |
|------------------|---|-----------------|-----------------|-----------------|----------------|------------------------------|-------------|------------------------------|---------------|
| | FY04 | FY05 | FY06 | FY07 | FY08 | 5-Year Change FY04 - FY08 | | 1-Year Change FY07 - FY08 | |
| | | | | | | \$ | % | \$ | % |
| Amherst | \$3,597 | \$3,873 | \$5,684 | \$5,638 | \$4,699 | \$1,102 | 30.6% | -\$939 | -16.7% |
| Boston | \$1,001 | \$2,481 | \$1,662 | \$1,207 | \$701 | -\$300 | -30.0% | -\$506 | -41.9% |
| Dartmouth | \$4,027 | \$5,039 | \$5,069 | \$2,210 | \$1,641 | -\$2,386 | -59.3% | -\$569 | -25.7% |
| Lowell | \$380 | \$180 | \$601 | \$969 | \$1,088 | \$708 | 186.3% | \$119 | 12.3% |
| Worcester | \$2 | \$139 | \$35 | \$0 | \$895 | \$893 | 44650.0% | \$895 | #DIV/0! |
| System | \$9,007 | \$11,712 | \$13,051 | \$10,024 | \$9,024 | \$17 | 0.2% | -\$1,000 | -10.0% |

**Science and Engineering R&D Expenditures by Source
FY2004 – FY2008**

| | Industry-Sponsored R&D Expenditures | | | | | | | | |
|------------------|-------------------------------------|-----------------|-----------------|-----------------|-----------------|------------------------------|---------------|------------------------------|--------------|
| | FY04 | FY05 | FY06 | FY07 | FY08 | 5-Year Change FY04 - FY08 | | 1-Year Change FY07 - FY08 | |
| | | | | | | \$ | % | \$ | % |
| Amherst | \$4,914 | \$4,724 | \$5,934 | \$5,195 | \$8,182 | \$3,268 | 66.5% | \$2,987 | 57.5% |
| Boston | \$0 | \$0 | \$0 | \$275 | \$552 | \$552 | #DIV/0! | \$277 | 100.7% |
| Dartmouth | \$753 | \$1,252 | \$1,680 | \$762 | \$807 | \$54 | 7.2% | \$45 | 5.9% |
| Lowell | \$3,904 | \$4,755 | \$4,423 | \$5,222 | \$6,299 | \$2,395 | 61.3% | \$1,077 | 20.6% |
| Worcester | \$5,903 | \$8,018 | \$9,465 | \$16,266 | \$15,192 | \$9,289 | 157.4% | -\$1,074 | -6.6% |
| System | \$15,474 | \$18,749 | \$21,502 | \$27,720 | \$31,032 | \$15,558 | 100.5% | \$3,312 | 11.9% |

| | Institutional R&D Expenditures | | | | | | | | |
|------------------|--------------------------------|-----------------|-----------------|-----------------|-----------------|------------------------------|--------------|------------------------------|-------------|
| | FY04 | FY05 | FY06 | FY07 | FY08 | 5-Year Change FY04 - FY08 | | 1-Year Change FY07 - FY08 | |
| | | | | | | \$ | % | \$ | % |
| Amherst | \$38,932 | \$42,887 | \$45,773 | \$48,755 | \$49,556 | \$10,624 | 27.3% | \$801 | 1.6% |
| Boston | \$5,861 | \$6,731 | \$7,007 | \$11,122 | \$13,048 | \$7,187 | 122.6% | \$1,926 | 17.3% |
| Dartmouth | \$4,092 | \$3,305 | \$2,907 | \$4,855 | \$4,253 | \$161 | 3.9% | -\$602 | -12.4% |
| Lowell | \$1,224 | \$1,309 | \$3,870 | \$8,588 | \$6,693 | \$5,469 | 446.8% | -\$1,895 | -22.1% |
| Worcester | \$1,106 | \$1,583 | \$2,377 | \$1,385 | \$2,626 | \$1,520 | 137.4% | \$1,241 | 89.6% |
| System | \$51,215 | \$55,815 | \$61,934 | \$74,705 | \$76,176 | \$24,961 | 48.7% | \$1,471 | 2.0% |

| | Other R&D Expenditures | | | | | | | | |
|------------------|------------------------|-----------------|-----------------|-----------------|-----------------|------------------------------|--------------|------------------------------|--------------|
| | FY04 | FY05 | FY06 | FY07 | FY08 | 5-Year Change FY04 - FY08 | | 1-Year Change FY07 - FY08 | |
| | | | | | | \$ | % | \$ | % |
| Amherst | \$7,893 | \$9,082 | \$9,024 | \$9,789 | \$10,711 | \$2,818 | 35.7% | \$922 | 9.4% |
| Boston | \$3,186 | \$2,610 | \$3,777 | \$4,196 | \$3,970 | \$784 | 24.6% | -\$226 | -5.4% |
| Dartmouth | \$3 | \$4 | \$0 | \$255 | \$643 | \$640 | 21333.3% | \$388 | 152.2% |
| Lowell | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 | |
| Worcester | \$8,900 | \$8,847 | \$8,434 | \$8,592 | \$14,788 | \$5,888 | 66.2% | \$6,196 | 72.1% |
| System | \$19,982 | \$20,543 | \$21,235 | \$22,832 | \$30,112 | \$10,130 | 50.7% | \$7,280 | 31.9% |

Source: Campus NSF surveys. All dollars are in thousands.

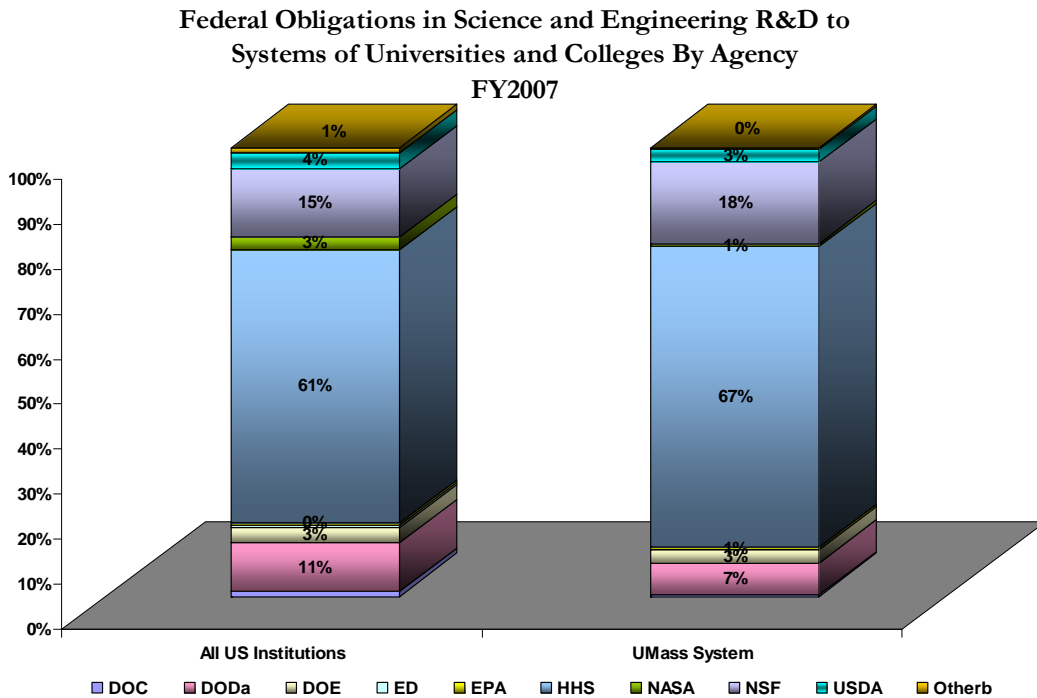
**Science and Engineering R&D Expenditures
Percent Basic Research FY2008**

| FY08 Basic Research as a Percent of: | | |
|--------------------------------------|-------------|-----------|
| | Federal R&D | Total R&D |
| Amherst | 70% | 70% |
| Boston | 100% | 100% |
| Dartmouth | 90% | 90% |
| Lowell | 81% | 81% |
| Worcester | 65% | 54% |

Source: Campus NSF surveys.

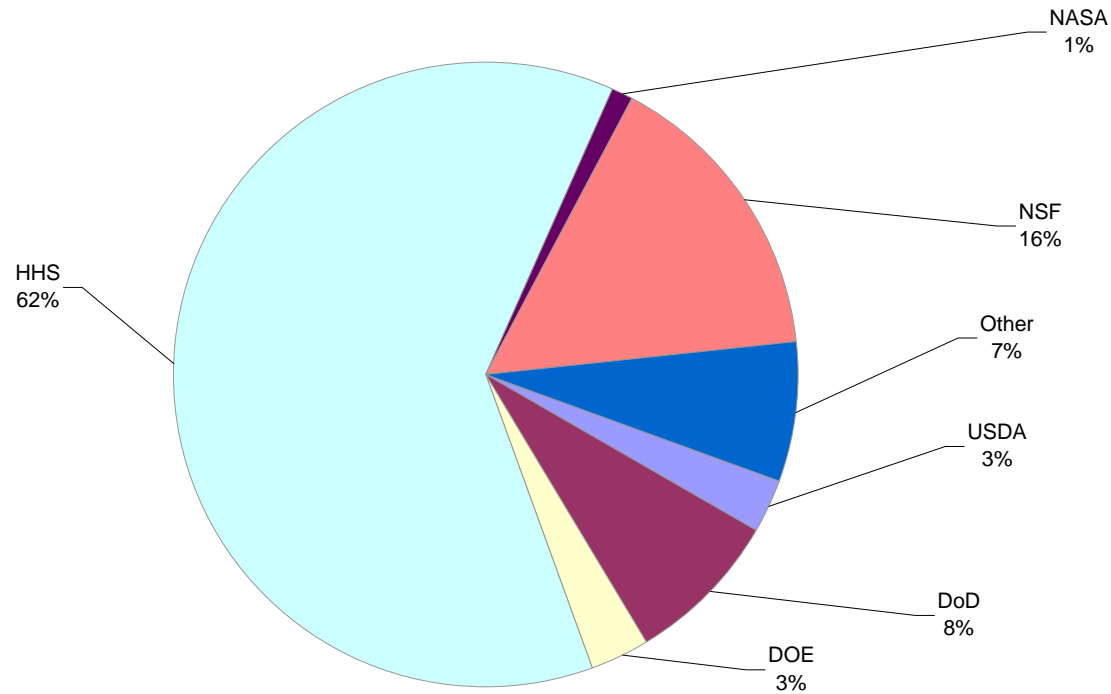
B. 3. FEDERAL OBLIGATIONS IN SCIENCE AND ENGINEERING R&D TO SYSTEMS OF UNIVERSITIES AND COLLEGES BY AGENCY

1. In FY 2007, total federal obligations in Science and Engineering R&D for the UMASS System was at approximately \$218.21 million.
2. This reflects a 9% increase from FY 2006, when total federal obligations to the UMASS System was at \$244 million. (*Appendix P*).
3. In FY 2007, the largest proportion of federal obligations in Science and Engineering R&D Expenditures to the UMASS System came from the Department of Health and Human Services (67%), followed by the National Science Foundation (18%), Department of Defense (7%), Department of Energy (3%), Department of Agriculture (3%), NASA (1%), and Environmental Protection Agency (1%).
4. The UMASS System shares somewhat similar trends to all All Systems of universities and colleges in its composition of federal obligations in Science and Engineering R&D Expenditures funds. Based on FY 2007 data (*Appendix P*), in both instances, the largest source of all federal obligations for Science and Engineering R&D funds (close to two-thirds) come from the Department of Health and Human Services (61% for All Systems and 67% for the UMASS System); similarly, for the UMASS System, federal obligation monies from the NSF comprised 18% of total federal obligations as compared to 15% for all Systems; Department of Energy obligations were at 3% for both the UMASS System as well as All Systems. Department of Defense obligations for all Systems was at 11% compared to 7% for the UMASS System.



DOC - Department of Commerce; DOD - Department of Defense; DOE - Department of Energy; ED - Education Department; NASA - National Aeronautics and Space Administration; EPA - Environmental Protection Agency; HHS - Health and Human Services; NSF - National Science Foundation; USDA - United States Department of Agriculture.

**Science and Engineering R&D Expenditures
by Federal Government Agency Sources FY2008
UMASS System**



| | Total Federal \$ | USDA | % of Campus Total | DoD | % of Campus Total | DOE | % of Campus Total | HHS | % of Campus Total | NASA | % of Campus Total | NSF | % of Campus Total | Other | % of Campus Total |
|------------------|------------------|----------|-------------------|-----------|-------------------|----------|-------------------|------------|-------------------|----------|-------------------|-----------|-------------------|-----------|-------------------|
| Amherst | \$ 79,736 | \$ 7,109 | 8.9% | \$ 8,155 | 10.2% | \$ 6,799 | 8.5% | \$ 18,385 | 23.1% | \$ 1,799 | 2.3% | \$ 32,764 | 41.1% | \$ 4,725 | 5.9% |
| Boston | \$ 12,001 | \$ - | 0.0% | \$ 244 | 2.0% | \$ 865 | 7.2% | \$ 4,373 | 36.4% | \$ 30 | 0.2% | \$ 2,500 | 20.8% | \$ 3,989 | 33.2% |
| Dartmouth | \$ 13,087 | \$ 762 | 5.8% | \$ 1,510 | 11.5% | \$ - | 0.0% | \$ 413 | 3.2% | \$ 166 | 1.3% | \$ 1,985 | 15.2% | \$ 8,251 | 63.0% |
| Lowell | \$ 22,406 | \$ - | 0.0% | \$ 9,388 | 41.9% | \$ 594 | 2.7% | \$ 5,436 | 24.3% | \$ 164 | 0.7% | \$ 4,588 | 20.5% | \$ 2,236 | 10.0% |
| Worcester | \$ 145,113 | \$ - | 0.0% | \$ 2,462 | 1.7% | \$ 8 | 0.0% | \$ 141,034 | 97.2% | \$ 450 | 0.3% | \$ 572 | 0.4% | \$ 587 | 0.4% |
| System | \$ 272,343 | \$ 7,871 | 2.9% | \$ 21,759 | 8.0% | \$ 8,266 | 3.0% | \$ 169,641 | 62.3% | \$ 2,609 | 1.0% | \$ 42,409 | 15.6% | \$ 19,788 | 7.3% |

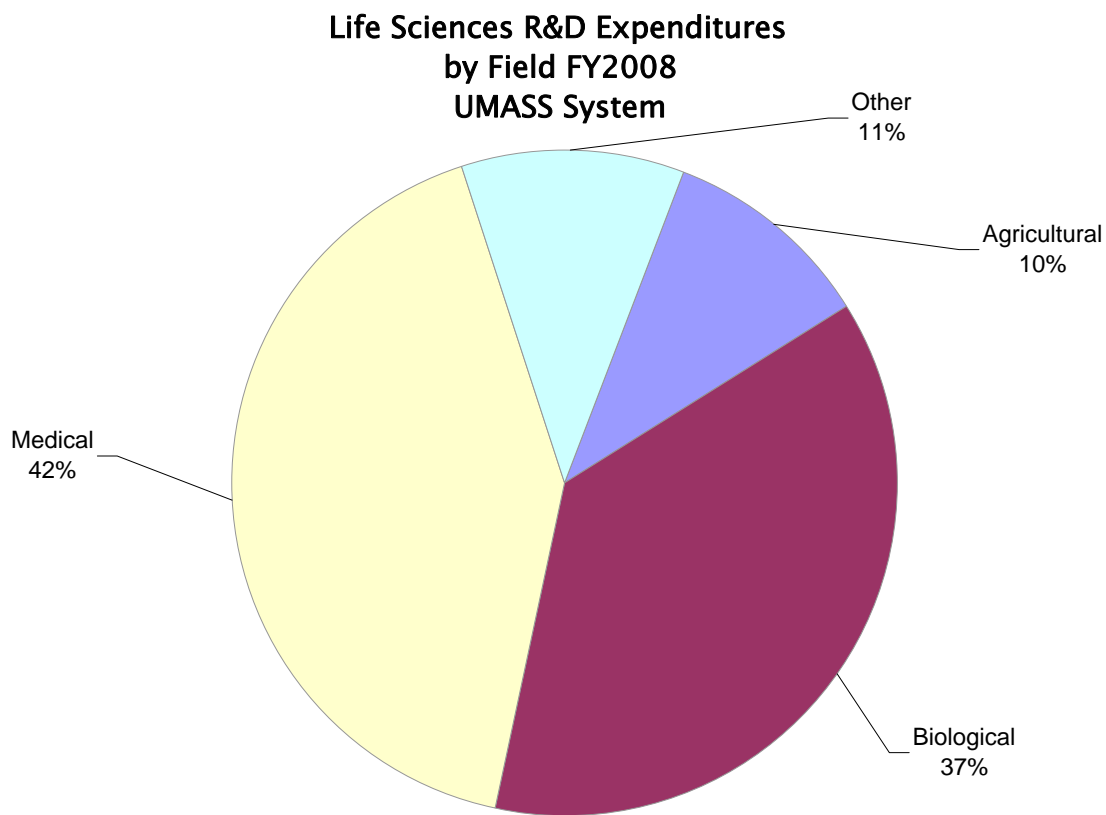
Source: Campus NSF surveys. All dollars are in thousands.

Note: HHS includes NIH

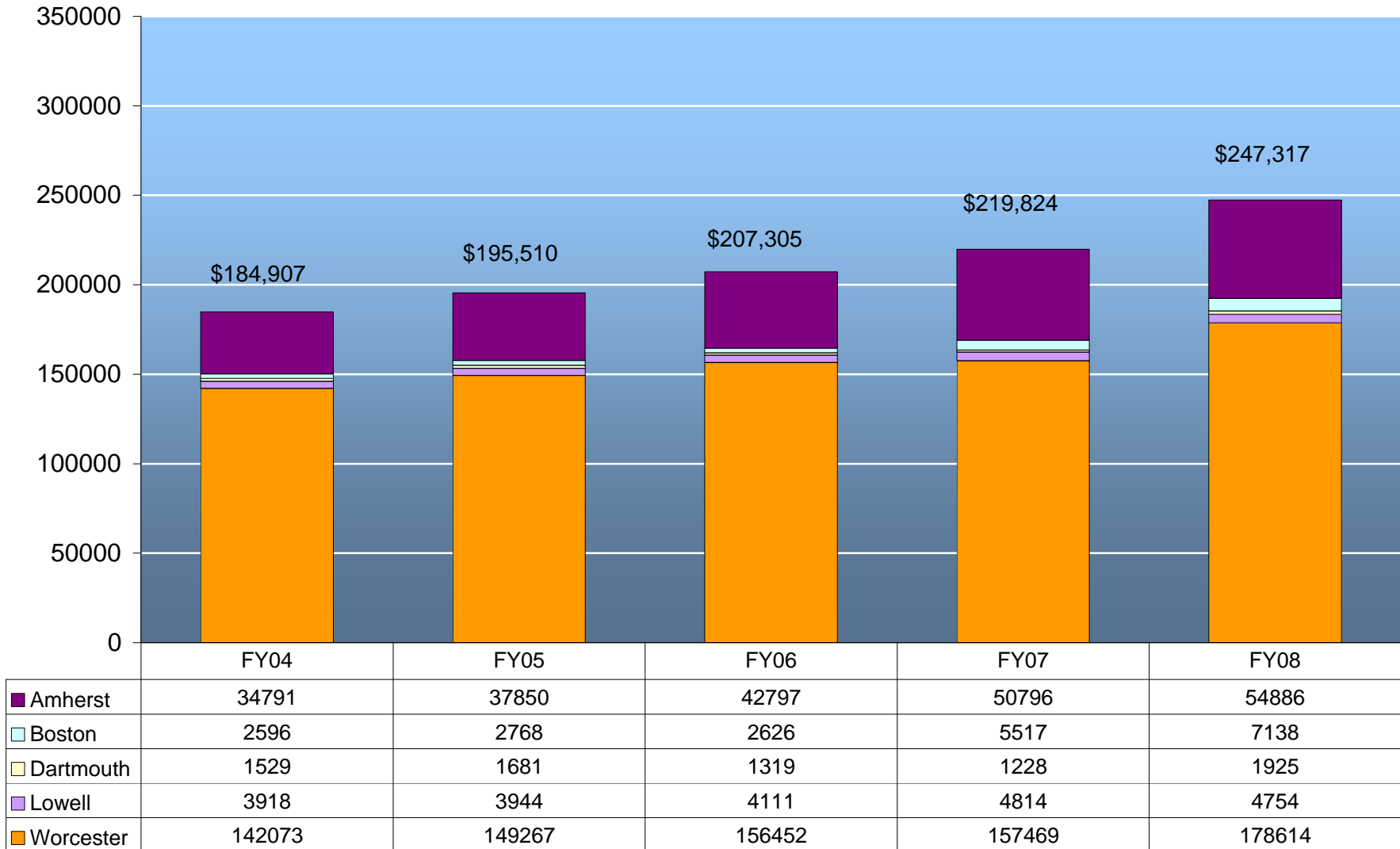
C. LIFE SCIENCES
R&D EXPENDITURES

C. LIFE SCIENCES R&D EXPENDITURES

1. In FY2008, R&D Expenditures in the Life Sciences for the UMASS System was at \$247.3 million, comprising approximately well over half (56.8%) of total R&D Expenditures.
2. This represents a 33.8% increase from FY2004, and a 12.5% increase between FY2007-08.
3. In FY2008, 42% of all of the R&D Expenditures in the Life Sciences was within the Medical Sciences, followed by Biological Sciences (37%), Agricultural Sciences (10%), and all Other (11%).
4. At the System level, the largest growth has been within the Medical Sciences, with FY2007-08 R&D Expenditures increasing by 16.5%, followed by Medical Sciences (13.4%) and Life Sciences (12.5%).



Life Sciences R&D Expenditures UMASS System FY2004 – FY2008



**Life Sciences R&D Expenditures by Field
FY2004 – FY2008**

| | Life Sciences R&D Expenditures | | | | | | | | |
|------------------|--------------------------------|------------------|------------------|------------------|------------------|------------------------------|--------------|------------------------------|--------------|
| | FY04 | FY05 | FY06 | FY07 | FY08 | 5-Year Change FY04 - FY08 | | 1-Year Change FY07 - FY08 | |
| | | | | | | \$ | % | \$ | % |
| Amherst | \$34,791 | \$37,850 | \$42,797 | \$50,796 | \$54,886 | \$20,095 | 57.8% | \$4,090 | 8.1% |
| Boston | \$2,596 | \$2,768 | \$2,626 | \$5,517 | \$7,138 | \$4,542 | 175.0% | \$1,621 | 29.4% |
| Dartmouth | \$1,529 | \$1,681 | \$1,319 | \$1,228 | \$1,925 | \$396 | 25.9% | \$697 | 56.8% |
| Lowell | \$3,918 | \$3,944 | \$4,111 | \$4,814 | \$4,754 | \$836 | 21.3% | -\$60 | -1.2% |
| Worcester | \$142,073 | \$149,267 | \$156,452 | \$157,469 | \$178,614 | \$36,541 | 25.7% | \$21,145 | 13.4% |
| System | \$184,907 | \$195,510 | \$207,305 | \$219,824 | \$247,317 | \$62,410 | 33.8% | \$27,493 | 12.5% |

| | Agricultural | | | | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------------------|--------------|------------------------------|--------------|
| | FY04 | FY05 | FY06 | FY07 | FY08 | 5-Year Change FY04 - FY08 | | 1-Year Change FY07 - FY08 | |
| | | | | | | \$ | % | \$ | % |
| Amherst | \$15,321 | \$17,017 | \$19,183 | \$20,795 | \$24,478 | \$9,157 | 59.8% | \$3,683 | 17.7% |
| Boston | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 | |
| Dartmouth | \$1,064 | \$1,180 | \$744 | \$739 | \$602 | -\$462 | -43.4% | -\$137 | -18.5% |
| Lowell | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 | |
| Worcester | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 | |
| System | \$16,385 | \$18,197 | \$19,927 | \$21,534 | \$25,080 | \$8,695 | 53.1% | \$3,546 | 16.5% |

| | Biological | | | | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------------------|--------------|------------------------------|--------------|
| | FY04 | FY05 | FY06 | FY07 | FY08 | 5-Year Change FY04 - FY08 | | 1-Year Change FY07 - FY08 | |
| | | | | | | \$ | % | \$ | % |
| Amherst | \$16,148 | \$16,309 | \$17,996 | \$22,757 | \$22,823 | \$6,675 | 41.3% | \$66 | 0.3% |
| Boston | \$1,485 | \$1,417 | \$1,439 | \$2,345 | \$3,384 | \$1,899 | 127.9% | \$1,039 | 44.3% |
| Dartmouth | \$169 | \$190 | \$263 | \$465 | \$970 | \$801 | 474.0% | \$505 | 108.6% |
| Lowell | \$1,200 | \$1,036 | \$885 | \$1,378 | \$1,477 | \$277 | 23.1% | \$99 | 7.2% |
| Worcester | \$57,951 | \$58,543 | \$61,571 | \$56,562 | \$63,980 | \$6,029 | 10.4% | \$7,418 | 13.1% |
| System | \$76,953 | \$77,495 | \$82,154 | \$83,507 | \$92,634 | \$15,681 | 20.4% | \$9,127 | 10.9% |

**Life Sciences R&D Expenditures by Field
FY2004 – FY2008**

| | Medical | | | | | | | | |
|------------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------------------|--------------|------------------------------|--------------|
| | FY04 | FY05 | FY06 | FY07 | FY08 | 5-Year Change FY04 - FY08 | | 1-Year Change FY07 - FY08 | |
| | | | | | | \$ | % | \$ | % |
| Amherst | \$1,062 | \$1,804 | \$3,191 | \$5,401 | \$6,575 | \$5,513 | 519.1% | \$1,174 | 21.7% |
| Boston | \$0 | \$0 | \$0 | \$2,984 | \$2,934 | \$2,934 | | -\$50 | -1.7% |
| Dartmouth | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | \$0 | |
| Lowell | \$2,715 | \$2,886 | \$0 | \$0 | \$0 | -\$2,715 | -100.0% | \$0 | |
| Worcester | \$65,176 | \$69,314 | \$76,250 | \$82,470 | \$93,501 | \$28,325 | 43.5% | \$11,031 | 13.4% |
| System | \$68,953 | \$74,004 | \$79,441 | \$90,855 | \$103,010 | \$34,057 | 49.4% | \$12,155 | 13.4% |

| | Other Life Sciences | | | | | | | | |
|------------------|----------------------------|-----------------|-----------------|-----------------|-----------------|------------------------------|--------------|------------------------------|--------------|
| | FY04 | FY05 | FY06 | FY07 | FY08 | 5-Year Change FY04 - FY08 | | 1-Year Change FY07 - FY08 | |
| | | | | | | \$ | % | \$ | % |
| Amherst | \$2,260 | \$2,720 | \$2,427 | \$1,843 | \$1,010 | -\$1,250 | -55.3% | -\$833 | -45.2% |
| Boston | \$1,111 | \$1,351 | \$1,187 | \$188 | \$820 | -\$291 | -26.2% | \$632 | 336.2% |
| Dartmouth | \$296 | \$311 | \$312 | \$24 | \$353 | \$57 | 19.3% | \$329 | 1370.8% |
| Lowell | \$3 | \$22 | \$3,226 | \$3,436 | \$3,277 | \$3,274 | 109133.3% | -\$159 | -4.6% |
| Worcester | \$18,946 | \$21,410 | \$18,631 | \$18,437 | \$21,133 | \$2,187 | 11.5% | \$2,696 | 14.6% |
| System | \$22,616 | \$25,814 | \$25,783 | \$23,928 | \$26,593 | \$3,977 | 17.6% | \$2,665 | 11.1% |

Source: Campus NSF surveys and WebCASPAR. All dollars are in thousands.

APPENDICES A-P

**Appendix A1: UMass Science and Engineering R&D Expenditures as Percent of
US, New England, Massachusetts Figures: FY 2002–2007**

(Dollars in Thousands)

| Division and state | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| United States | 36,405,220 | 40,100,324 | 43,257,731 | 45,792,673 | 47,742,832 | 49,430,767 |
| New England | 2,784,035 | 3,046,288 | 3,333,767 | 3,450,621 | 3,603,898 | 3,652,809 |
| Connecticut | 538,488 | 594,507 | 649,245 | 669,923 | 691,998 | 691,408 |
| Maine | 75,063 | 83,935 | 99,108 | 96,569 | 120,038 | 137,425 |
| Massachusetts | 1,697,182 | 1,821,924 | 2,000,120 | 2,079,548 | 2,122,756 | 2,171,596 |
| New Hampshire | 220,061 | 252,210 | 277,201 | 287,472 | 315,394 | 307,074 |
| Rhode Island | 163,052 | 187,131 | 192,326 | 199,709 | 230,104 | 230,281 |
| Vermont | 90,189 | 106,581 | 115,767 | 117,400 | 123,608 | 115,025 |
| U. MA Worcester | 132,729 | 148,823 | 142,073 | 149,267 | 156,452 | 157,469 |
| U. MA Amherst | 109,332 | 113,512 | 120,788 | 127,487 | 136,057 | 141,351 |
| U. MA Lowell | 22,827 | 22,783 | 22,163 | 23,852 | 27,635 | 34,824 |
| U. MA Dartmouth | 15,030 | 16,476 | 18,074 | 19,452 | 19,171 | 19,538 |
| U. MA Boston | 13,121 | 15,793 | 15,460 | 18,148 | 21,056 | 25,952 |
| UMass System Total | 293,039 | 317,387 | 318,558 | 338,206 | 360,371 | 379,134 |
| As % of US | 0.8% | 0.8% | 0.7% | 0.7% | 0.8% | 0.8% |
| As % of New England | 10.5% | 10.4% | 9.6% | 9.8% | 10.0% | 10.4% |
| As % of MA | 17.3% | 17.4% | 15.9% | 16.3% | 17.0% | 17.5% |

**Appendix A2: UMass Science and Engineering R&D Expenditures as Percent of
US, New England, Massachusetts Figures by Field: FY 2007**

(Dollars in Thousands)

| Division and state | All R&D expenditures | Environmental sciences | Life sciences | Math and computer sciences | Physical sciences | Psychology | Social sciences | Sciences, nec | Engineering |
|---------------------------|----------------------|------------------------|----------------|----------------------------|-------------------|---------------|-----------------|---------------|---------------|
| United States | 49,430,767 | 2,725,120 | 29,763,889 | 1,988,431 | 3,842,391 | 863,358 | 1,781,410 | 949,278 | 7,516,890 |
| New England | 3,652,809 | 331,406 | 2,037,513 | 141,405 | 312,066 | 76,107 | 134,814 | 99,601 | 519,897 |
| Connecticut | 691,408 | 13,404 | 563,875 | 8,778 | 34,067 | 23,661 | 10,058 | 5,148 | 32,417 |
| Maine | 137,425 | 23,420 | 56,453 | 3,927 | 5,001 | 1,703 | 21,425 | 7,726 | 17,770 |
| Massachusetts | 2,171,596 | 202,704 | 1,048,906 | 100,564 | 245,466 | 41,937 | 84,961 | 48,946 | 398,112 |
| New Hampshire | 307,074 | 56,779 | 163,648 | 6,988 | 10,930 | 4,346 | 6,676 | 15,495 | 42,212 |
| Rhode Island | 230,281 | 34,267 | 105,889 | 19,722 | 15,309 | 2,422 | 11,385 | 14,624 | 26,663 |
| Vermont | 115,025 | 832 | 98,742 | 1,426 | 1,293 | 2,038 | 309 | 7,662 | 2,723 |
| U. MA Worcester | 157,469 | - | 157,469 | - | - | - | - | - | - |
| U. MA Amherst | 141,351 | 3,956 | 50,796 | 20,529 | 12,809 | 5,560 | 4,421 | 550 | 42,730 |
| U. MA Lowell | 34,824 | 3,691 | 4,814 | 1,409 | 8,665 | 386 | 2,303 | 0 | 13,556 |
| U. MA Dartmouth | 19,538 | 10,116 | 1,228 | 1,411 | 1,822 | 52 | 301 | - | 4,608 |
| U. MA Boston | 25,952 | 2,839 | 5,517 | 1,971 | 524 | 4,132 | 7,956 | 2,916 | 97 |
| UMass System Total | 379,134 | 20,602 | 219,824 | 25,320 | 23,820 | 10,130 | 14,981 | 3,466 | 60,991 |
| As % of US | 0.8% | 0.8% | 0.7% | 1.3% | 0.6% | 1.2% | 0.8% | 0.4% | 0.8% |
| As % of New England | 10.4% | 6.2% | 10.8% | 17.9% | 7.6% | 13.3% | 11.1% | 3.5% | 11.7% |
| As % of MA | 17.5% | 10.2% | 21.0% | 25.2% | 9.7% | 24.2% | 17.6% | 7.1% | 15.3% |

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix B: Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by FY 2007 R&D Expenditures: FY 2000–07

| | | (Dollars in Thousands) | | | | | | | |
|------|---|------------------------|------------|------------|------------|------------|------------|------------|------------|
| Rank | Institution | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| | All institutions | 30,084,148 | 32,823,937 | 36,405,220 | 40,100,324 | 43,257,731 | 45,792,673 | 47,742,832 | 49,430,767 |
| 1 | Johns Hopkins U., The ^a | 901,156 | 999,246 | 1,140,235 | 1,244,132 | 1,375,014 | 1,443,792 | 1,499,977 | 1,554,103 |
| 2 | U. CA, San Francisco | 443,013 | 524,975 | 596,965 | 671,443 | 728,321 | 754,444 | 796,149 | 842,840 |
| 3 | U. WI Madison | 554,361 | 604,143 | 662,101 | 717,044 | 763,875 | 798,099 | 831,895 | 840,672 |
| 4 | U. CA, Los Angeles | 530,826 | 693,801 | 787,598 | 849,357 | 772,569 | 785,625 | 811,493 | 823,083 |
| 5 | U. MI all campuses | 551,556 | 600,523 | 673,724 | 780,054 | 769,126 | 808,887 | 800,488 | 808,731 |
| 6 | U. CA, San Diego | 518,559 | 556,533 | 585,008 | 646,508 | 708,690 | 721,035 | 754,766 | 798,896 |
| 7 | Duke U. | 356,625 | 375,133 | 441,533 | 520,191 | 520,871 | 630,752 | 657,080 | 781,843 |
| 8 | U. WA | 529,342 | 589,626 | 627,273 | 684,814 | 713,976 | 707,519 | 778,148 | 756,787 |
| 9 | OH State U. all campuses | 361,399 | 390,652 | 432,387 | 496,438 | 518,088 | 608,923 | 652,329 | 720,206 |
| 10 | Stanford U. | 457,822 | 482,906 | 538,474 | 603,227 | 671,046 | 714,897 | 679,196 | 687,511 |
| 11 | PA State U. all campuses | 427,575 | 458,066 | 492,739 | 533,427 | 600,139 | 625,764 | 644,182 | 652,144 |
| 12 | U. PA | 430,389 | 469,852 | 522,269 | 564,635 | 596,756 | 654,982 | 676,052 | 648,247 |
| 13 | Cornell U. all campuses | 410,393 | 443,828 | 496,123 | 554,760 | 575,554 | 606,804 | 648,802 | 641,936 |
| 14 | U. MN all campuses | 411,380 | 462,011 | 494,265 | 508,557 | 526,270 | 548,873 | 594,877 | 624,149 |
| 15 | MA Institute of Technology | 426,299 | 435,495 | 446,786 | 485,764 | 543,448 | 580,742 | 600,748 | 614,352 |
| 16 | U. CA, Davis | 364,789 | 432,396 | 456,653 | 482,145 | 511,757 | 546,978 | 573,002 | 600,508 |
| 17 | U. FL | 313,692 | 347,892 | 386,316 | 429,734 | 447,146 | 530,734 | 565,491 | 592,835 |
| 18 | Washington U. St. Louis | 362,216 | 406,642 | 416,960 | 474,328 | 489,565 | 531,846 | 547,674 | 572,775 |
| 19 | U. Pittsburgh all campuses | 294,809 | 348,792 | 400,200 | 409,684 | 461,693 | 522,448 | 530,162 | 558,566 |
| 20 | U. CA, Berkeley | 518,514 | 446,273 | 474,746 | 507,186 | 525,598 | 554,551 | 546,035 | 552,365 |
| 21 | Columbia U. in the City of NY | 319,693 | 354,497 | 405,403 | 437,669 | 468,484 | 535,424 | 529,945 | 545,995 |
| 22 | TX A&M U. | 397,268 | 407,041 | 436,681 | 456,235 | 456,809 | 479,735 | 492,955 | 543,888 |
| 23 | U. AZ | 345,090 | 367,128 | 390,827 | 454,941 | 478,680 | 530,233 | 535,847 | 531,753 |
| 24 | U. CO all campuses | 353,908 | 365,472 | 399,818 | 436,761 | 482,992 | 517,067 | 512,794 | 527,587 |
| 25 | U. Southern CA | 300,445 | 340,597 | 372,397 | 414,099 | 426,665 | 445,036 | 450,173 | 508,138 |
| 26 | U. TX M. D. Anderson Cancer Ctr. | 182,196 | 212,746 | 262,145 | 315,169 | 353,034 | 383,780 | 457,696 | 496,539 |
| 27 | U. NC Chapel Hill | 269,072 | 303,576 | 370,806 | 390,542 | 416,727 | 441,033 | 443,790 | 477,231 |
| 28 | U. IL Urbana-Champaign | 373,024 | 390,863 | 427,174 | 493,581 | 506,041 | 499,711 | 476,198 | 473,890 |
| 29 | GA Institute of Technology all campuses | 304,511 | 306,533 | 340,347 | 364,190 | 410,799 | 425,386 | 440,898 | 472,591 |
| 30 | Harvard U. | 341,810 | 372,107 | 401,367 | 408,707 | 454,495 | 447,196 | 453,156 | 451,276 |
| 31 | Yale U. | 296,706 | 321,514 | 354,243 | 387,644 | 422,828 | 431,618 | 460,075 | 448,671 |
| 32 | U. TX Austin | 272,811 | 295,104 | 320,966 | 343,854 | 343,886 | 410,981 | 431,398 | 446,765 |
| 33 | Northwestern U. | 245,774 | 257,933 | 282,154 | 319,722 | 358,947 | 387,242 | 419,985 | 443,345 |
| 34 | Baylor C. of Medicine | 334,175 | 381,461 | 411,924 | 461,763 | 476,075 | 458,694 | 462,375 | 438,280 |
| 35 | Purdue U. all campuses | 234,536 | 254,917 | 285,778 | 309,476 | 365,779 | 364,986 | 372,958 | 415,172 |
| 36 | Vanderbilt U. | 171,926 | 186,504 | 208,305 | 276,074 | 318,335 | 350,433 | 376,893 | 399,149 |
| 37 | Emory U. | 206,070 | 236,997 | 271,238 | 323,224 | 311,685 | 333,665 | 345,989 | 398,383 |
| 38 | U. Cincinnati all campuses | 171,906 | 192,895 | 216,652 | 254,101 | 276,326 | 286,036 | 294,150 | 375,852 |
| 39 | U. Rochester | 197,335 | 234,261 | 261,601 | 285,768 | 312,303 | 345,337 | 366,658 | 373,247 |
| 40 | LA State U. all campuses | 251,233 | 268,911 | 287,363 | 314,446 | 341,634 | 356,828 | 348,797 | 372,421 |
| 41 | Case Western Reserve U. | 193,057 | 198,253 | 219,042 | 250,674 | 231,800 | 323,618 | 369,264 | 372,374 |
| 42 | VA Polytechnic Institute and State U. | 192,672 | 216,323 | 232,560 | 247,807 | 268,752 | 289,994 | 321,722 | 366,960 |
| 43 | U. IA | 236,944 | 255,348 | 288,808 | 292,035 | 312,914 | 334,144 | 346,357 | 363,243 |
| 44 | MI State U. | 238,436 | 265,946 | 289,787 | 321,410 | 325,438 | 333,735 | 358,097 | 360,852 |
| 45 | Scripps Research Institute, The | NA | NA | NA | NA | 307,910 | 330,170 | 367,375 | 360,511 |
| 46 | U. MD College Park | 252,429 | 267,383 | 324,980 | 321,899 | 325,648 | 338,648 | 354,244 | 359,760 |
| 47 | U. MD Baltimore | 224,346 | 239,007 | 266,822 | 297,271 | 317,293 | 304,396 | 405,260 | 358,851 |
| 48 | U. AL Birmingham, The | 233,461 | 231,702 | 255,053 | 284,497 | 310,950 | 318,536 | 331,436 | 351,457 |
| 49 | U. IL Chicago | 195,839 | 233,098 | 259,852 | 291,507 | 312,768 | 318,279 | 332,176 | 342,421 |
| 50 | U. TX Southwestern Medical Ctr. Dallas | 189,216 | 222,376 | 263,958 | 276,692 | 314,403 | 320,800 | 333,237 | 341,090 |

Appendix B: Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by FY 2007 R&D Expenditures: FY 2000–07

| | | (Dollars in Thousands) | | | | | | | |
|------|---------------------------------------|------------------------|---------|---------|---------|---------|---------|---------|-----------|
| Rank | Institution | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| 51 | U. NE all campuses | 192,639 | 223,964 | 247,948 | 276,424 | 299,550 | 333,126 | 333,243 | 336,468 |
| 52 | U. GA | 258,476 | 272,298 | 284,660 | 299,748 | 313,160 | 316,806 | 323,843 | 332,612 |
| 53 | NC State U. | 277,946 | 299,259 | 290,018 | 286,025 | 292,720 | 302,596 | 330,936 | 331,662 |
| 54 | U. KY all campuses | 202,392 | 211,721 | 236,275 | 272,062 | 297,610 | 306,653 | 323,958 | 331,606 |
| 55 | U. Chicago | 170,678 | 194,125 | 225,264 | 247,322 | 272,390 | 293,970 | 305,301 | 322,488 |
| 56 | SUNY Buffalo all campuses | 187,692 | 186,829 | 226,959 | 240,180 | 258,952 | 267,271 | 297,909 | 314,837 |
| 57 | Rutgers, The State U. NJ all campuses | 225,268 | 236,793 | 258,829 | 278,763 | 296,534 | 309,531 | 308,204 | 311,612 |
| 58 | U. CA, Irvine | 158,437 | 179,866 | 209,469 | 234,656 | 257,024 | 276,763 | 300,229 | 309,554 |
| 59 | SUNY Albany | 82,792 | 70,119 | 67,493 | 120,655 | 203,977 | 259,708 | 274,354 | 309,221 |
| 60 | NY U. | 182,205 | 190,722 | 222,978 | 241,593 | 259,333 | 276,198 | 284,164 | 297,867 |
| 61 | IN U. all campuses | 227,737 | 259,899 | 299,080 | 337,669 | 384,168 | 307,137 | 355,004 | 294,981 |
| 62 | CO State U. | 152,279 | 161,144 | 178,845 | 187,054 | 214,886 | 236,211 | 253,992 | 288,497 |
| 63 | OR Health & Science U. | 131,486 | 136,785 | 158,729 | 197,178 | 254,447 | 266,687 | 272,174 | 287,430 |
| 64 | CA Institute of Technology | 222,666 | 215,085 | 220,004 | 240,664 | 261,098 | 265,364 | 270,269 | 285,488 |
| 65 | U. South FL | 145,397 | 171,550 | 197,894 | 213,249 | 240,021 | 259,218 | 285,941 | 272,661 |
| 66 | Mt. Sinai School of Medicine | 149,846 | 176,946 | 185,335 | 203,853 | 212,786 | 225,293 | 273,216 | 269,451 |
| 67 | SUNY Stony Brook all campuses | 163,307 | 168,487 | 184,045 | 200,330 | 213,547 | 212,289 | 234,635 | 268,282 |
| 68 | U. HI Manoa | 161,300 | 156,976 | 161,823 | 179,285 | 236,368 | 230,651 | 249,635 | 266,447 |
| 69 | Boston U. | 154,029 | 172,031 | 192,612 | 224,841 | 240,867 | 246,520 | 255,615 | 249,279 |
| 70 | U. UT | 187,661 | 197,597 | 216,707 | 223,739 | 230,146 | 244,691 | 248,168 | 247,794 |
| 71 | U. TN all campuses | 163,690 | 161,898 | 188,261 | 217,389 | 228,760 | 255,699 | 249,072 | 243,184 |
| 72 | U. of Medicine and Dentistry NJ | 140,951 | 162,417 | 178,156 | 190,763 | 209,134 | 239,778 | 245,771 | 236,834 |
| 73 | Wayne State U. | 156,814 | 175,984 | 199,007 | 214,642 | 225,475 | 226,331 | 220,731 | 235,186 |
| 74 | Rockefeller U. | 124,138 | 145,571 | 166,603 | 192,143 | 192,222 | 198,719 | 215,417 | 233,917 |
| 75 | U. VA all campuses | 140,416 | 149,547 | 182,340 | 206,199 | 228,532 | 235,058 | 238,754 | 230,181 |
| 76 | U. MO-Columbia | 158,861 | 174,782 | 177,011 | 205,212 | 217,550 | 220,718 | 215,240 | 228,654 |
| 77 | U. CT all campuses | 161,084 | 164,366 | 172,003 | 190,341 | 211,236 | 219,982 | 215,184 | 224,679 |
| 78 | AZ State U. | 108,117 | 118,763 | 123,016 | 145,591 | 152,164 | 166,923 | 201,955 | 224,352 |
| 79 | IA State U. | 175,558 | 179,196 | 188,664 | 199,566 | 211,996 | 209,545 | 221,998 | 217,158 |
| 80 | Clemson U. | 114,903 | 123,885 | 134,840 | 152,986 | 158,585 | 175,127 | 179,840 | 211,760 |
| 81 | U. Miami | 145,795 | 153,772 | 171,319 | 177,709 | 194,446 | 209,572 | 213,516 | 210,534 |
| 82 | WA State U. | 104,796 | 107,937 | 146,862 | 175,181 | 171,735 | 182,677 | 196,391 | 210,010 |
| 83 | MS State U. | 132,503 | 146,939 | 158,652 | 165,922 | 191,352 | 179,825 | 189,917 | 206,207 |
| 84 | U. KS all campuses | 148,670 | 156,467 | 172,131 | 173,024 | 181,192 | 190,105 | 195,947 | 202,129 |
| 85 | Carnegie Mellon U. | 137,980 | 144,882 | 188,191 | 186,351 | 205,149 | 200,297 | 212,506 | 197,143 |
| 86 | Dartmouth C. | 78,874 | 109,096 | 126,839 | 155,795 | 173,266 | 179,094 | 200,277 | 192,846 |
| 87 | Yeshiva U. | 139,618 | 148,230 | 157,124 | 177,236 | 183,253 | 193,104 | 189,416 | 192,199 |
| 88 | U. TX Health Science Ctr. Houston | 119,587 | 125,439 | 138,380 | 149,294 | 147,328 | 152,631 | 175,154 | 191,724 |
| 89 | U. CA, Santa Barbara | 118,154 | 116,372 | 131,795 | 149,130 | 151,325 | 165,014 | 174,429 | 191,204 |
| 90 | FL State U. | 105,095 | 113,817 | 134,351 | 152,277 | 168,132 | 172,858 | 185,633 | 189,565 |
| 91 | OR State U. | 140,751 | 153,925 | 161,735 | 167,631 | 170,286 | 180,309 | 189,606 | 189,368 |
| 92 | Princeton U. | 134,875 | 149,411 | 164,408 | 179,951 | 188,373 | 202,380 | 188,165 | 188,732 |
| 93 | Wake Forest U. | 86,840 | 98,343 | 111,634 | 130,405 | 133,753 | 185,152 | 183,129 | 185,609 |
| 94 | Medical U. SC | 65,243 | 116,687 | 132,030 | 150,551 | 163,179 | 178,086 | 176,055 | 184,624 |
| 95 | U. TX Medical Branch | 97,896 | 102,722 | 129,534 | 153,122 | 166,798 | 174,254 | 179,915 | 183,492 |
| 96 | U. NM main campus | 133,980 | 156,619 | 150,598 | 158,239 | 170,085 | 178,703 | 181,223 | 177,430 |
| 97 | U. OK all campuses | 150,902 | 148,695 | 169,373 | 174,466 | 158,578 | 173,663 | 178,719 | 176,825 |
| 98 | U. TX Health Science Ctr. San Antonio | 103,824 | 115,154 | 129,616 | 133,304 | 137,039 | 142,375 | 150,040 | 160,282 |
| 99 | U. SC all campuses | 104,398 | 109,973 | 123,108 | 121,410 | 121,671 | 122,212 | 153,737 | 158,857 |
| 100 | Medical C. WI | 70,581 | 83,857 | 96,700 | 108,608 | 139,235 | 143,540 | 147,140 | 158,171 |
| 101 | U. MA Worcester | 97,587 | 111,221 | 132,729 | 148,823 | 169,090 | 176,349 | 156,452 | 157,469 |
| 102 | Brown U. | 81,476 | 91,636 | 109,482 | 125,090 | 130,741 | 138,262 | 157,926 | 152,619 |
| 103 | U. AK Fairbanks all campuses | 102,500 | 110,195 | 116,279 | 128,916 | 132,212 | 139,488 | 153,470 | 151,782 e |

Appendix B: Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by FY 2007 R&D Expenditures: FY 2000–07

| | | (Dollars in Thousands) | | | | | | | |
|------|--|------------------------|----------|----------|---------|----------|----------|---------|---------|
| Rank | Institution | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| 104 | U. Louisville | 64,062 | 72,857 | 80,974 | 88,522 | 110,653 | 128,347 | 135,873 | 151,226 |
| 105 | NM State U. main campus | 79,695 | 86,963 | 103,078 | 108,613 | 93,329 | 125,427 | 164,994 | 148,120 |
| 106 | U. MA Amherst | 96,907 | 97,976 | 109,332 | 113,512 | 120,788 | 127,487 | 135,272 | 141,351 |
| 107 | Auburn U. all campuses | 92,612 | 106,347 | 108,775 | 117,000 | 125,705 | 132,203 | 126,522 | 140,629 |
| 108 | UT State U. | 103,161 | 121,359 | 121,621 | 138,862 | 153,616 | 131,624 | 138,670 | 138,065 |
| 109 | Woods Hole Oceanographic Institution | 81,547 | 91,029 | 99,964 | 104,223 | 114,087 | 117,517 | 121,888 | 137,410 |
| 110 | Tulane U. | 89,785 | 99,761 | 102,998 | 117,709 | 123,677 | 138,959 | 114,397 | 137,107 |
| 111 | VA Commonwealth U. | 88,220 | 99,180 | 109,619 | 126,451 | 132,839 | 146,105 | 149,256 | 134,453 |
| 112 | WV U. | 66,130 | 71,311 | 84,985 | 104,748 | 108,002 | 115,398 | 122,134 | 133,590 |
| 113 | Georgetown U. | 133,211 | 99,228 | 105,668 | 117,713 | 126,320 | 123,938 | 118,558 | 131,785 |
| 114 | Tufts U. | 105,783 | 105,806 | 109,291 | 112,609 | 126,432 | 131,028 | 128,965 | 130,826 |
| 115 | U. CA, Riverside | 83,580 | 94,455 | 111,936 | 112,468 | 110,627 | 122,221 | 124,820 | 128,243 |
| 116 | George Washington U. | 69,300 | 73,805 | 86,288 | 92,454 | 103,473 | 107,715 | 113,982 | 126,110 |
| 117 | U. CA, Santa Cruz | 56,212 | 64,253 | 70,967 | 78,448 | 94,297 | 105,617 | 114,126 | 124,856 |
| 118 | KS State U. | 91,790 | 94,030 | 106,804 | 112,733 | 119,306 | 123,398 | 123,746 | 123,900 |
| 119 | U. CA Office of the President | NA | NA | NA | NA | 90,233 | 97,245 | 128,770 | 118,910 |
| 120 | U. DE | 74,711 | 77,491 | 85,157 | 100,706 | 109,985 | 110,339 | 114,985 | 118,245 |
| 121 | MT State U. Bozeman | 65,324 | 69,593 | 78,211 | 91,503 | 97,696 | 109,465 | 112,428 | 116,999 |
| 122 | U. NH | 72,108 | 87,879 | 93,222 | 96,415 | 103,935 | 108,378 | 115,117 | 114,228 |
| 123 | U. VT | 63,391 | 75,597 | 88,602 | 104,994 | 114,120 | 115,693 | 121,841 | 113,195 |
| 124 | U. Central FL | 47,646 | 79,287 | 66,351 | 89,880 | 103,261 | 102,702 | 107,996 | 111,595 |
| 125 | U. AR for Medical Sciences | 49,074 | 51,921 | 45,046 | 63,677 | 74,063 | 91,516 | 107,871 | 108,551 |
| 126 | U. MS all campuses | 44,927 | 58,410 i | 71,893 i | 85,378 | 79,867 | 91,913 | 93,471 | 108,244 |
| 127 | Thomas Jefferson U. | 89,626 | 88,936 | 102,974 | 109,083 | 112,078 | 107,388 | 106,986 | 107,288 |
| 128 | ND State U. all campuses | 50,063 | 64,882 | 72,105 | 91,812 | 102,115 | 103,011 | 103,778 | 106,208 |
| 129 | OK State U. all campuses | 88,285 | 90,311 | 94,987 | 103,079 | 103,915 | 99,436 | 100,323 | 101,112 |
| 130 | U. AR main campus | 70,817 | 78,303 | 83,063 | 82,277 | 88,918 | 98,138 | 99,271 | 101,109 |
| 131 | Drexel U. | 24,876 | 27,698 | 44,465 | 69,548 | 76,120 | 88,049 | 96,687 | 96,575 |
| 132 | U. ME | 54,821 | 64,070 | 62,149 | 68,923 | 81,216 | 75,066 | 93,153 | 96,135 |
| 133 | U. NV, Reno | 56,248 | 59,229 | 66,721 | 80,553 | 83,552 | 95,579 | 98,917 | 95,809 |
| 134 | FL International U. | 34,649 | 44,291 | 47,654 | 52,175 | 63,545 | 76,678 | 63,567 | 90,903 |
| 135 | NJ Institute of Technology | 47,895 | 62,747 | 69,138 | 73,664 | 74,998 | 76,920 | 77,583 | 88,699 |
| 136 | Temple U. | 52,466 | 60,182 | 63,850 | 71,327 | 76,055 | 83,062 | 79,736 | 85,394 |
| 137 | Rush U. | 68,189 | 70,219 | 79,394 | 89,196 | 89,254 | 83,693 | 83,194 | 84,370 |
| 138 | NM Institute of Mining and Technology | 23,636 | 28,392 | 36,309 | 37,186 | 38,476 | 56,134 i | 73,792 | 83,742 |
| 139 | U. ID | 61,347 | 67,496 | 76,758 | 85,213 | 93,246 | 91,009 | 86,863 | 83,390 |
| 140 | U. WY | 43,094 | 41,632 | 41,632 e | 60,054 | 60,054 e | 83,449 | 89,414 | 79,700 |
| 141 | TX A&M U. System Health Science Ctr. | 25,736 | 40,859 | 49,636 | 55,031 | 64,170 | 73,162 | 76,109 | 77,957 |
| 142 | U. of Notre Dame | 34,524 | 46,096 | 52,371 | 59,803 | 74,255 | 71,266 | 78,553 | 77,467 |
| 143 | Rensselaer Polytechnic Institute | 40,762 | 45,010 | 45,955 | 50,777 | 56,907 | 65,571 | 70,576 | 77,238 |
| 144 | U. RI | 48,135 | 50,835 | 53,347 | 61,818 | 60,947 | 60,252 | 70,696 | 76,237 |
| 145 | U. Dayton | 39,345 | 41,343 | 46,554 | 52,943 | 63,734 | 67,445 | 69,080 | 74,005 |
| 146 | U. Houston | 48,902 | 51,567 | 59,707 | 63,455 | 60,962 | 80,731 | 75,662 | 73,542 |
| 147 | Northeastern U. | 35,340 | 34,467 | 38,540 | 42,931 | 47,283 | 63,514 | 66,495 | 71,502 |
| 148 | Uniformed Services U. of the Health Sciences | 23,987 | 23,247 | 28,630 | 30,604 | 89,999 | 78,694 | 67,716 | 71,307 |
| 149 | U. AL Huntsville, The | 41,274 | 43,731 | 48,353 | 46,595 | 49,259 | 54,601 | 59,231 | 70,027 |
| 150 | Rice U. | 41,840 | 42,675 | 48,169 | 52,367 | 60,872 | 63,102 | 66,564 | 69,772 |
| 151 | U. MD Baltimore County | 26,044 | 29,641 | 36,323 | 42,906 | 49,403 | 58,467 | 65,718 | 66,968 |
| 152 | San Diego State U. | 55,002 | 58,332 | 64,302 | 67,053 | 66,710 | 73,887 | 73,777 | 65,810 |
| 153 | Southern IL U. Carbondale | 36,354 | 43,207 | 53,604 | 53,018 | 53,953 | 57,434 | 74,520 | 64,703 |
| 154 | Naval Postgraduate School | 40,827 i | 47,559 i | 54,291 i | 61,025 | 56,184 i | 51,343 | 56,780 | 63,392 |
| 155 | U. ND all campuses | 17,343 | 19,692 | 33,973 | 41,803 | 49,595 | 46,798 | 56,074 | 63,036 |

Appendix B: Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by FY 2007 R&D Expenditures: FY 2000–07

| | | (Dollars in Thousands) | | | | | | | |
|------|--|------------------------|----------|----------|----------|----------|----------|--------|--------|
| Rank | Institution | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| 156 | U. MD Biotechnology Institute | 29,946 | 41,627 | 43,673 | 45,140 | 47,725 | 56,135 | 59,297 | 61,757 |
| 157 | U. OR | 35,934 | 36,881 | 43,723 | 44,604 | 51,956 | 52,657 | 57,153 | 61,694 |
| 158 | Medical C. GA | 45,596 | 52,191 | 51,705 | 56,398 | 58,808 | 67,278 | 61,174 | 60,001 |
| 159 | George Mason U. | 26,793 | 32,881 | 38,849 | 44,980 | 46,210 | 42,630 | 50,381 | 58,252 |
| 160 | TX Tech U. | 66,263 | 69,918 | 82,785 | 92,515 | 57,592 | 56,623 | 58,591 | 57,878 |
| 161 | Brandeis U. | 47,658 | 52,818 | 47,122 | 50,841 | 51,498 | 54,136 | 57,017 | 56,831 |
| 162 | U. MT-Missoula, The | 29,590 | 33,535 | 39,367 | 43,562 | 51,078 | 54,685 | 52,903 | 55,755 |
| 163 | MI Technological U. | 27,204 | 29,613 | 30,005 | 30,264 | 35,670 | 40,188 | 43,081 | 55,294 |
| 164 | St. Louis U. all campuses | 31,002 | 32,442 | 35,444 | 41,189 | 41,189 e | 47,356 | 48,133 | 54,265 |
| 165 | U. NV, Las Vegas | 24,215 | 27,008 | 30,527 | 42,205 | 45,429 | 48,343 | 57,031 | 53,049 |
| 166 | U. Toledo | 13,694 | 16,278 | 24,825 | 24,123 | 27,708 | 32,351 | 30,493 | 52,448 |
| 167 | Old Dominion U. | 25,058 | 24,659 | 29,223 | 30,324 | 34,819 | 47,006 | 49,966 | 52,134 |
| 168 | Charles R. Drew U. of Medicine and Science | 31,045 | 36,717 | 48,839 | 49,888 | 51,994 | 43,231 | 47,188 | 52,118 |
| 169 | U. LA Lafayette | 32,692 | 32,073 | 47,796 | 43,769 | 55,218 | 44,620 | 47,308 | 52,075 |
| 170 | GA State U. | 36,600 | 38,960 | 44,564 | 45,653 | 45,415 | 50,262 | 52,690 | 51,387 |
| 171 | C. of William and Mary all campuses | 33,299 | 35,829 | 39,858 | 43,974 | 49,420 | 50,146 | 52,025 | 49,854 |
| 172 | Wright State U. all campuses | 29,092 | 32,033 | 30,962 | 34,860 | 38,052 | 40,328 | 47,711 | 49,713 |
| 173 | Wichita State U. | 16,213 | 16,142 | 18,842 | 22,401 | 29,948 | 32,726 | 31,873 | 47,398 |
| 174 | U. Southern MS | 17,706 | 20,286 | 25,685 | 35,049 | 35,908 | 37,881 | 39,163 | 47,135 |
| 175 | U. TX Dallas | 15,684 | 15,684 e | 26,198 | 30,748 | 31,274 | 43,111 | 44,198 | 46,477 |
| 176 | U. Memphis, The | 27,381 | 29,445 | 33,625 | 38,728 | 44,120 | 49,961 | 43,715 | 44,359 |
| 177 | U. MD Ctr. for Environmental Science | 31,605 | 36,635 | 38,501 | 38,344 | 39,631 | 41,022 | 40,146 | 40,720 |
| 178 | Desert Research Institute | 25,691 | 29,697 | 29,465 | 31,757 | 34,783 | 34,570 | 38,511 | 40,238 |
| 179 | U. WI Milwaukee | 20,010 | 23,492 | 24,933 | 27,259 | 28,268 | 32,748 | 34,033 | 40,023 |
| 180 | U. TX El Paso | 20,877 | 21,889 | 23,684 | 27,185 | 25,440 | 26,825 | 32,161 | 39,965 |
| 181 | SUNY Upstate Medical U. | 17,095 | 17,294 | 22,326 | 25,931 | 32,090 | 34,931 | 37,181 | 39,699 |
| 182 | Boston C. | 27,767 | 30,768 | 31,754 | 32,158 | 32,158 e | 31,588 | 35,659 | 39,261 |
| 183 | SD State U. | 16,784 | 19,717 | 20,085 | 27,652 | 30,962 | 32,042 | 33,275 | 39,033 |
| 184 | U. PR Medical Sciences Campus | 21,373 | 23,913 | 29,089 | 31,124 | 34,092 | 35,809 | 38,424 | 38,863 |
| 185 | OH U. all campuses | 23,767 | 27,146 | 36,601 | 37,527 | 38,704 | 43,229 | 38,000 | 38,671 |
| 186 | Howard U. | 27,254 | 30,148 | 35,387 | 37,577 | 41,404 | 41,609 | 36,465 | 38,020 |
| 187 | Jackson State U. | 12,027 | 25,663 | 25,445 | 28,843 | 31,641 | 35,876 | 38,273 | 36,888 |
| 188 | Lehigh U. | 25,506 | 29,058 | 22,687 | 29,211 | 32,048 | 36,709 | 33,469 | 36,537 |
| 189 | Syracuse U. all campuses | 40,063 | 42,476 | 45,870 | 48,846 | 58,276 | 62,020 | 36,100 | 36,396 |
| 190 | U. AL, The | 31,847 | 33,133 | 37,130 | 34,187 | 35,132 | 34,531 | 35,129 | 36,382 |
| 191 | SUNY Binghamton | 18,661 | 18,992 | 21,343 | 23,090 | 25,405 | 25,769 | 29,635 | 35,462 |
| 192 | Loyola U. Chicago | 30,034 | 37,156 | 37,607 | 37,581 | 36,134 | 40,551 | 37,669 | 34,940 |
| 193 | U. MA Lowell | 19,334 | 20,656 | 22,827 | 22,783 | 22,163 | 23,852 | 27,635 | 34,824 |
| 194 | U. Southern ME | 1,366 e | 4,479 i | 7,592 i | 10,705 i | 13,818 i | 16,931 i | 20,045 | 34,799 |
| 195 | NY Medical C. | 23,348 | 24,283 | 25,222 | 30,492 | 33,521 | 32,460 | 34,397 | 34,365 |
| 196 | San Jose State U. | 21,005 e | 22,709 | 25,003 | 28,323 | 29,268 | 32,886 | 34,687 | 34,241 |
| 197 | Meharry Medical C. | 9,460 e | 14,984 i | 20,508 | 25,427 | 27,507 | 29,105 | 32,878 | 33,218 |
| 198 | CUNY The City C. | 17,059 | 17,099 | 17,103 | 17,712 | 25,947 | 28,992 | 30,316 | 32,840 |
| 199 | U. TX Arlington | 10,723 | 17,486 | 15,097 | 15,102 | 19,003 | 28,971 | 29,267 | 32,734 |
| 200 | Eastern VA Medical School | 23,299 | 26,250 | 28,572 | 32,801 | 33,798 | 33,721 | 33,013 | 31,453 |
| 201 | U. TX San Antonio | 10,292 | 11,331 | 11,115 | 13,654 | 15,738 | 22,429 | 30,259 | 30,542 |
| 202 | U. MO-Rolla | 25,968 | 28,799 | 32,222 | 35,999 | 41,242 | 38,337 | 37,384 | 30,395 |
| 203 | CO School of Mines | 21,795 | 23,654 | 26,515 | 29,162 | 27,087 | 26,499 | 28,729 | 29,939 |
| 204 | SUNY Health Science Ctr. Brooklyn | 31,626 | 31,626 e | 31,153 i | 30,680 i | 30,207 i | 29,732 | 31,064 | 29,809 |
| 205 | Creighton U. | 15,841 | 17,674 | 18,982 | 24,116 | 25,451 | 27,022 | 25,615 | 28,374 |
| 206 | U. North TX Health Science Ctr. Ft. Worth | 10,131 | 11,035 | 12,893 | 15,388 | 18,520 | 22,325 | 25,124 | 28,187 |
| 207 | Loma Linda U. | 24,369 | 24,183 i | 23,996 | 26,296 | 29,651 | 29,898 | 32,451 | 28,020 |
| 208 | Morehouse School of Medicine | 16,889 | 19,670 | 23,956 | 27,154 | 33,317 | 30,652 | 28,378 | 27,886 |

Appendix B: Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by FY 2007 R&D Expenditures: FY 2000–07

| | | (Dollars in Thousands) | | | | | | | |
|------|---|------------------------|----------|----------|----------|----------|--------|----------|--------|
| Rank | Institution | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| 209 | U. Akron all campuses | 19,495 | 22,266 | 28,080 | 27,953 | 27,488 | 26,888 | 28,440 | 27,138 |
| 210 | CUNY Hunter C. | 15,047 | 19,964 | 25,905 | 32,704 | 34,931 | 33,024 | 31,308 | 27,046 |
| 211 | Southern IL U. Edwardsville | 1,344 | 1,270 | 14,043 | 17,100 | 18,973 | 20,883 | 23,737 | 26,904 |
| 212 | U. MO-Kansas City | 19,647 | 18,795 | 24,060 | 31,104 | 31,968 | 30,780 | 26,016 | 26,870 |
| 213 | FL Atlantic U. | 19,535 | 25,111 | 23,995 | 25,946 | 23,767 | 27,388 | 28,896 | 26,769 |
| 214 | Brigham Young U. all campuses | 17,237 | 19,171 | 21,228 | 22,557 | 23,565 | 23,961 | 25,973 | 26,653 |
| 215 | Northern AZ U. | 12,570 | 14,657 | 17,263 | 17,446 | 19,967 | 22,870 | 27,632 | 26,566 |
| 216 | Portland State U. | 16,494 | 16,838 | 17,683 | 21,433 | 21,433 e | 28,940 | 28,763 | 26,025 |
| 217 | U. MA Boston | 12,058 | 11,672 | 13,121 | 15,793 | 15,460 | 18,148 | 21,056 | 25,952 |
| 218 | U. South AL | 9,865 | 9,865 e | 17,692 | 19,371 | 20,096 | 19,431 | 19,308 | 25,883 |
| 219 | Stevens Institute of Technology | 15,879 | 13,855 | 13,855 e | 18,334 i | 22,814 | 22,997 | 25,848 | 25,684 |
| 220 | NC Agricultural and Technical State U. | 13,400 | 15,629 | 15,353 | 17,304 | 19,534 | 22,936 | 23,698 | 24,044 |
| 221 | Hampton U. | 9,323 | 9,158 | 11,067 | 18,673 | 31,645 | 42,969 | 28,705 | 24,017 |
| 222 | SUNY C. of Environmental Science and Forestry | 26,663 | 27,854 | 26,337 | 26,783 | 19,419 i | 12,054 | 17,954 i | 23,854 |
| 223 | Miami U. all campuses | 10,674 | 12,804 | 13,279 | 13,727 | 15,377 | 18,026 | 19,229 | 23,729 |
| 224 | IL Institute of Technology | 13,734 | 14,722 | 19,909 | 25,744 | 22,948 | 25,498 | 22,646 | 22,955 |
| 225 | Marshall U. | 6,231 | 7,218 | 11,285 | 15,070 | 20,221 | 22,321 | 18,385 | 22,519 |
| 226 | U. NC Charlotte | 7,790 | 7,905 | 8,773 | 12,599 | 17,425 | 16,042 | 18,463 | 22,165 |
| 227 | U. SD | 4,742 | 5,546 | 8,368 | 11,148 | 15,523 | 18,681 | 22,613 | 21,473 |
| 228 | U. PR Rio Piedras Campus | 9,308 | 10,341 | 9,736 | 11,473 | 12,417 | 20,546 | 21,609 | 21,379 |
| 229 | TX Tech U. Health Science Ctr. | NA | NA | NA | NA | 19,827 | 18,697 | 22,013 | 21,006 |
| 230 | Rochester Institute of Technology | 4,755 | 11,416 | 13,500 | 17,197 | 19,423 | 21,068 | 22,107 | 20,961 |
| 231 | San Francisco State U. | 5,223 e | 5,223 e | 14 | 12,500 | 42,903 | 23,655 | 27,333 | 20,069 |
| 232 | Catholic U. America, The | 9,329 | 17,539 | 22,883 | 24,475 | 23,610 | 21,489 | 17,662 | 19,919 |
| 233 | ID State U. | 8,899 | 8,847 | 10,119 | 12,243 | 14,385 | 19,700 | 16,754 | 19,887 |
| 234 | U. PR Mayaguez Campus | 34,683 | 18,627 | 19,939 | 20,029 | 16,686 | 20,492 | 21,080 | 19,813 |
| 235 | U. MA Dartmouth | 6,905 | 9,488 | 15,030 | 16,476 | 18,074 | 19,452 | 19,171 | 19,538 |
| 236 | Kent State U. all campuses | 10,817 | 11,316 | 12,868 | 14,549 | 12,712 | 11,045 | 11,076 | 19,001 |
| 237 | Mercer U. all campuses | 18,138 | 15,337 | 12,998 | 14,996 | 18,437 | 20,042 | 19,529 | 18,096 |
| 238 | U. of the VI | 3,310 e | 8,645 i | 13,981 | 15,762 | 17,874 | 16,735 | 17,495 | 17,842 |
| 239 | Western MI U. | 14,230 | 14,976 | 19,023 | 21,571 | 13,912 | 17,518 | 18,005 | 17,182 |
| 240 | U. NC Wilmington | 7,859 | 10,307 | 14,568 | 12,762 | 14,381 | 20,617 | 13,609 | 17,064 |
| 241 | Clarkson U. | 7,751 | 8,322 | 8,322 e | 7,466 | 14,703 | 13,826 | 16,143 | 16,976 |
| 242 | Air Force Institute of Technology | 7,771 | 8,311 | 9,243 | 12,454 | 13,001 | 14,666 | 18,783 | 16,801 |
| 243 | Northern IL U. | 7,431 | 9,028 | 10,366 | 12,368 | 11,687 | 11,239 | 16,627 | 16,710 |
| 244 | FL A&M U. | 21,612 | 23,865 | 31,147 | 23,503 | 31,408 | 26,400 | 34,293 | 16,541 |
| 245 | East Carolina U. | 8,461 | 10,535 | 11,513 | 12,520 | 13,296 | 14,240 | 14,061 | 15,970 |
| 246 | Cleveland State U. | 10,214 | 12,986 | 13,855 | 14,112 | 16,888 | 15,884 | 14,496 | 15,948 |
| 247 | Albany Medical C. | 11,522 | 12,836 | 13,104 | 13,394 | 15,562 | 15,465 | 16,227 | 15,029 |
| 248 | U. Tulsa | 10,054 | 12,553 | 11,603 | 11,527 | 15,375 | 12,740 | 12,358 | 14,735 |
| 249 | CA State Polytechnic U. San Luis Obispo | 12,133 | 12,193 | 14,002 | 13,598 | 9,417 | 11,235 | 12,529 | 14,517 |
| 250 | U.S. Air Force Academy | 4,551 | 5,323 | 25,589 | 27,198 | 29,998 | 29,438 | 10,547 | 14,504 |
| 251 | SD School of Mines and Technology | 5,743 | 6,922 | 9,692 | 10,853 | 10,626 | 13,347 | 12,589 | 14,480 |
| 252 | Tuskegee U. | 8,893 | 9,539 | 9,965 | 10,067 | 11,519 | 10,966 | 11,651 | 14,329 |
| 253 | Polytechnic U. | 15,500 | 8,277 | 10,915 | 11,271 i | 11,627 | 15,295 | 14,479 | 14,216 |
| 254 | U. North TX | 9,108 | 14,224 | 13,227 | 13,990 | 11,958 | 12,617 | 14,819 | 14,207 |
| 255 | LA Tech U. | 10,228 | 9,986 | 12,110 | 15,055 | 16,118 | 15,832 | 15,276 | 14,166 |
| 256 | CA State U. Long Beach | 32,551 | 3,995 | 8,026 | 13,732 | 9,877 | 9,594 | 10,322 | 13,867 |
| 257 | TX A&M U. Kingsville | 7,404 | 6,919 | 8,208 | 10,203 | 11,102 | 13,389 | 13,343 | 13,794 |
| 258 | AL A&M U. | 8,238 | 11,977 i | 15,717 | 36,856 | 17,429 | 16,075 | 14,431 | 13,672 |
| 259 | Worcester Polytechnic Institute | 10,315 | 9,348 | 10,493 | 12,357 | 14,045 | 14,679 | 14,483 | 13,409 |
| 260 | Southern Methodist U. | 9,713 | 8,948 | 9,774 | 9,890 | 10,432 | 11,839 | 12,475 | 13,381 |

Appendix B: Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by FY 2007 R&D Expenditures: FY 2000–07

(Dollars in Thousands)

| Rank | Institution | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|------|--|---------|---------|---------|---------|---------|---------|----------|---------|
| 261 | Teachers C. Columbia U. | 8,561 | 9,676 | 10,409 | 9,603 | 9,684 | 10,669 | 11,411 | 12,585 |
| 262 | TN State U. | 11,285 | 12,791 | 15,262 | 14,306 | 15,255 | 14,669 | 14,096 | 12,475 |
| 263 | CA State U. Northridge | 6,190 | 6,190 e | 10,619 | 11,638 | 10,305 | 8,767 | 7,490 | 12,412 |
| 264 | TN Technological U. | 8,878 | 9,347 | 9,823 | 9,609 | 8,779 | 9,312 | 9,575 | 12,226 |
| 265 | Rosalind Franklin U. of Medicine and Science | 7,587 | 8,037 | 8,645 | 9,923 | 10,614 | 11,920 | 10,981 | 12,199 |
| 266 | Prairie View A&M U. | 9,464 | 11,297 | 10,444 | 11,193 | 10,989 | 11,810 | 11,444 | 12,019 |
| 267 | TX A&M U. Corpus Christi | 5,999 | 5,606 | 9,124 | 10,281 | 12,266 | 8,845 | 12,654 | 11,933 |
| 268 | Morgan State U. | 4,371 | 2,390 | 1,674 | 7,493 | 8,580 | 9,544 | 13,523 | 11,257 |
| 269 | Boise State U. | 3,480 | 6,153 | 6,446 | 7,583 | 9,126 | 9,162 | 7,848 | 10,947 |
| 270 | U. CA, Merced | na | na | na | na | na | 4,468 | 7,527 | 10,945 |
| 271 | U. MO-St. Louis | 9,898 | 10,084 | 11,519 | 12,819 | 12,429 | 12,056 | 11,713 | 10,907 |
| 272 | Villanova U. | 5,280 | 5,380 i | 5,481 e | 6,479 i | 7,477 i | 8,475 i | 9,473 i | 10,473 |
| 273 | Western KY U. | 3,770 | 4,165 | 5,281 | 4,263 | 5,729 | 6,607 | 8,701 | 10,402 |
| 274 | CA State U. Los Angeles | 9,062 | 5,557 | 7,933 | 7,073 | 8,728 | 10,130 | 8,956 | 10,053 |
| 275 | U. Denver | 8,383 | 12,944 | 10,539 | 9,949 | 12,500 | 11,716 | 10,581 | 9,833 |
| 276 | Marquette U. | 7,653 | 7,236 | 9,807 | 11,385 | 9,652 | 10,338 | 10,445 | 9,744 |
| 277 | U. AR Little Rock | 3,400 e | 2,088 | 2,088 e | 24,284 | 4,127 | 4,345 | 9,331 | 9,683 i |
| 278 | Universidad Central del Caribe | 5,677 | 6,943 | 7,103 | 8,274 | 9,797 | 9,181 | 8,790 | 9,446 |
| 279 | Southwest MO State U. | 1,324 e | 1,550 | 1,888 | 1,423 | 2,935 | 6,367 | 5,188 | 9,320 |
| 280 | CUNY Queens C. | 3,827 | 4,595 | 6,718 | 6,430 | 6,819 | 6,876 | 7,432 | 9,186 |
| 281 | Tarleton State U. | 3,872 | 6,607 | 7,871 | 8,534 | 7,194 | 8,512 | 8,069 | 9,151 |
| 282 | Bowling Green State U. all campuses | 3,454 e | 5,028 | 5,327 | 7,336 | 8,271 | 9,746 | 9,912 | 9,120 |
| 283 | Ponce School of Medicine | 3,403 | 3,842 | 4,365 | 7,491 | 10,140 | 7,840 | 7,654 | 9,103 |
| 284 | Alcorn State U. | 8,034 | 7,370 | 5,809 | 7,619 | 7,622 | 6,256 | 6,593 | 9,056 |
| 285 | Baylor U. | 3,307 | 2,698 | 3,868 | 4,203 | 5,242 | 6,364 | 6,133 | 8,951 |
| 286 | Oakland U. | 6,422 e | 7,397 | 6,869 | 6,175 | 6,616 | 6,505 | 9,169 | 8,872 |
| 287 | Duquesne U. | 2,662 | 5,003 | 5,955 | 6,848 | 8,082 | 8,096 | 8,345 | 8,850 |
| 288 | Clark Atlanta U. | 16,891 | 17,173 | 17,194 | 12,760 | 13,576 | 12,790 | 11,155 | 8,543 |
| 289 | CA State U. San Bernardino | 1,797 | 1,906 | 3,740 | 7,576 | 8,755 | 8,905 | 11,120 | 8,323 |
| 290 | VA State U. | 4,422 | 5,066 | 7,144 | 7,209 | 5,953 | 5,048 | 8,189 | 8,170 |
| 291 | U.S. Military Academy | 5,148 i | 5,577 i | 6,006 i | 6,435 i | 6,864 i | 7,293 i | 7,722 i | 8,167 |
| 292 | East TN State U. | 6,494 | 8,222 | 11,701 | 12,971 | 7,788 | 8,098 | 7,943 | 8,020 |
| 293 | U.S. Naval Academy | 2,786 | 3,140 | 2,324 | 3,451 | 5,985 | 6,623 | 6,850 | 7,973 |
| 294 | Embry-Riddle Aeronautical U. | 2,700 e | 7,711 | 5,102 | 6,641 | 8,558 | 13,325 | 10,628 i | 7,930 |
| 295 | U. HI Hilo | NA | NA | 10,841 | 5,317 | 4,978 | 9,596 | 7,843 | 7,926 |
| 296 | Ball State U. | 2,429 | 3,071 | 4,008 | 3,878 | 7,483 | 8,490 | 8,625 | 7,913 |
| 297 | TX State U. San Marcos | 4,507 | 8,884 | 8,109 | 7,621 | 9,130 | 7,261 | 7,034 | 7,890 |
| 298 | Wesleyan U. | 5,673 | 5,846 | 5,614 | 6,682 | 7,741 | 8,036 | 8,170 | 7,878 |
| 299 | New School, The | 5,209 | 5,791 | 5,791 e | 3,435 | 5,642 | 5,889 | 6,950 | 7,795 |
| 300 | AR State U. main campus | 1,203 | 1,347 | 1,278 | 2,634 | 4,572 | 4,035 | 6,007 | 7,494 |

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

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$777,813 in total R&D expenditures in FY 2007.

NOTE: Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix C: Federally Financed Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by FY 2007 Expenditures: FY 2000–07

| (Dollars in Thousands) | | | | | | | | | |
|------------------------|---|------------|------------|------------|------------|------------|------------|------------|------------|
| Rank | Institution | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| | All institutions | 17,547,632 | 19,244,082 | 21,873,227 | 24,770,506 | 27,643,985 | 29,203,273 | 30,123,700 | 30,440,745 |
| 1 | Johns Hopkins U., The ^a | 793,266 | 879,741 | 1,022,510 | 1,106,971 | 1,229,426 | 1,277,292 | 1,307,453 | 1,362,836 |
| 2 | U. WA | 389,622 | 435,103 | 487,059 | 565,602 | 625,218 | 606,317 | 650,394 | 620,375 |
| 3 | U. MI all campuses | 364,033 | 396,117 | 444,255 | 516,818 | 521,339 | 554,516 | 565,739 | 577,201 |
| 4 | Stanford U. | 367,083 | 384,468 | 426,620 | 483,540 | 541,667 | 574,675 | 540,069 | 534,787 |
| 5 | U. CA, Los Angeles | 274,162 | 312,858 | 366,762 | 421,174 | 461,145 | 469,889 | 483,873 | 488,846 |
| 6 | MA Institute of Technology | 306,668 | 304,319 | 330,409 | 356,206 | 427,552 | 457,235 | 476,362 | 476,318 |
| 7 | U. CA, San Diego | 326,037 | 343,276 | 359,383 | 400,100 | 465,629 | 463,946 | 463,807 | 475,708 |
| 8 | U. WI Madison | 278,629 | 304,009 | 345,003 | 396,231 | 434,423 | 477,582 | 491,810 | 469,076 |
| 9 | U. CA, San Francisco | 248,878 | 277,489 | 327,393 | 371,697 | 418,944 | 438,988 | 464,660 | 467,402 |
| 10 | Columbia U. in the City of NY | 283,163 | 317,928 | 356,749 | 385,529 | 406,576 | 453,188 | 451,187 | 459,748 |
| 11 | Duke U. | 204,180 | 218,109 | 261,356 | 306,864 | 347,896 | 376,568 | 414,419 | 459,122 |
| 12 | U. PA | 312,434 | 351,996 | 397,587 | 415,631 | 435,343 | 465,284 | 478,773 | 449,687 |
| 13 | U. CO all campuses | 300,667 | 308,643 | 340,466 | 377,941 | 414,986 | 449,366 | 448,350 | 442,303 |
| 14 | U. Pittsburgh all campuses | 228,155 | 268,571 | 306,913 | 345,625 | 394,444 | 420,305 | 422,316 | 441,357 |
| 15 | Washington U. St. Louis | 254,148 | 284,928 | 303,441 | 357,364 | 371,043 | 400,699 | 408,402 | 424,451 |
| 16 | Harvard U. | 281,699 | 300,414 | 336,607 | 348,620 | 399,764 | 395,906 | 403,458 | 392,103 |
| 17 | PA State U. all campuses | 226,074 | 245,951 | 284,706 | 301,094 | 347,996 | 358,569 | 367,215 | 370,789 |
| 18 | Cornell U. all campuses | 229,872 | 240,466 | 270,578 | 320,868 | 339,107 | 365,694 | 390,043 | 367,094 |
| 19 | U. Southern CA | 210,872 | 246,207 | 266,645 | 300,195 | 312,589 | 330,126 | 333,378 | 355,084 |
| 20 | Yale U. | 232,019 | 250,702 | 274,304 | 296,713 | 330,837 | 332,702 | 348,500 | 349,027 |
| 21 | U. NC Chapel Hill | 194,794 | 221,615 | 254,571 | 280,678 | 304,204 | 320,294 | 329,215 | 346,672 |
| 22 | U. MN all campuses | 229,958 | 264,289 | 295,301 | 293,266 | 307,677 | 319,771 | 326,170 | 337,966 |
| 23 | OH State U. all campuses | 132,219 | 161,092 | 177,883 | 198,488 | 284,675 | 294,053 | 315,914 | 313,242 |
| 24 | Vanderbilt U. | 129,986 | 146,230 | 172,858 | 221,979 | 261,484 | 281,694 | 300,423 | 312,178 |
| 25 | Case Western Reserve U. | 150,586 | 158,852 | 181,888 | 205,452 | 195,525 | 212,485 | 306,980 | 304,742 |
| 26 | U. TX Austin | 178,889 | 195,184 | 219,158 | 231,996 | 235,281 | 254,529 | 273,147 | 289,331 |
| 27 | U. Rochester | 150,593 | 166,945 | 195,298 | 208,148 | 231,193 | 257,497 | 278,399 | 280,132 |
| 28 | Emory U. | 144,914 | 170,317 | 186,083 | 228,255 | 243,248 | 266,868 | 267,894 | 271,445 |
| 29 | U. AZ | 187,161 | 199,484 | 211,772 | 259,074 | 283,956 | 292,811 | 301,619 | 269,941 |
| 30 | U. AL Birmingham, The | 175,309 | 194,625 | 216,221 | 245,217 | 261,664 | 288,434 | 292,962 | 269,006 |
| 31 | Scripps Research Institute, The | NA | NA | NA | NA | 236,989 | 272,969 | 268,533 | 267,073 |
| 32 | Baylor C. of Medicine | 193,249 | 234,394 | 259,475 | 302,764 | 312,669 | 300,638 | 287,679 | 263,146 |
| 33 | U. Chicago | 140,872 | 155,566 | 183,830 | 201,129 | 229,102 | 245,679 | 253,471 | 261,870 |
| 34 | GA Institute of Technology all campuses | 126,164 | 143,836 | 165,680 | 203,582 | 237,483 | 245,130 | 257,751 | 260,230 |
| 35 | U. CA, Davis | 141,740 | 154,937 | 176,644 | 208,327 | 221,937 | 240,003 | 248,190 | 256,994 |
| 36 | U. Cincinnati all campuses | 110,296 | 128,049 | 150,166 | 185,261 | 194,965 | 202,654 | 201,742 | 253,833 |
| 37 | CA Institute of Technology | 196,877 | 193,554 | 199,944 | 219,097 | 244,187 | 249,371 | 248,591 | 253,657 |
| 38 | U. IL Urbana-Champaign | 193,490 | 195,316 | 214,323 | 266,487 | 275,896 | 289,985 | 264,645 | 253,612 |
| 39 | U. CA, Berkeley | 208,338 | 208,080 | 217,297 | 238,206 | 268,830 | 290,960 | 261,718 | 251,043 |
| 40 | Northwestern U. | 150,238 | 158,129 | 178,607 | 200,316 | 230,593 | 244,113 | 249,980 | 249,411 |
| 41 | U. FL | 120,374 | 135,421 | 167,108 | 194,958 | 221,898 | 231,699 | 248,322 | 240,819 |
| 42 | Boston U. | 133,730 | 150,771 | 171,438 | 203,947 | 219,054 | 228,842 | 238,560 | 232,115 |
| 43 | TX A&M U. | 149,639 | 149,382 | 163,488 | 177,119 | 173,705 | 212,923 | 206,242 | 228,363 |
| 44 | OR Health & Science U. | 109,165 | 111,671 | 130,231 | 164,221 | 206,219 | 217,145 | 223,204 | 227,441 |
| 45 | U. IA | 140,764 | 155,249 | 180,743 | 197,260 | 209,865 | 216,354 | 216,521 | 222,944 |
| 46 | Mt. Sinai School of Medicine | 98,188 | 109,344 | 125,979 | 152,719 | 185,249 | 191,326 | 224,911 | 221,397 |
| 47 | U. MD College Park | 136,605 | 145,515 | 194,095 | 183,206 | 180,943 | 196,008 | 209,764 | 218,973 |
| 48 | CO State U. | 101,429 | 101,308 | 112,650 | 117,151 | 162,074 | 154,245 | 182,648 | 210,746 |
| 49 | U. IL Chicago | 101,943 | 125,109 | 143,183 | 168,063 | 192,825 | 198,163 | 203,875 | 208,881 |
| 50 | U. HI Manoa | 95,419 | 97,716 | 110,882 | 143,580 | 187,035 | 190,137 | 202,419 | 208,196 |
| 51 | U. VA all campuses | 115,684 | 122,868 | 152,358 | 173,442 | 188,121 | 198,606 | 203,778 | 198,274 |
| 52 | NY U. | 117,163 | 129,897 | 149,995 | 166,033 | 181,441 | 191,782 | 189,276 | 194,303 |
| 53 | U. TX Southwestern Medical Ctr. Dallas | 109,165 | 131,820 | 155,258 | 177,196 | 200,888 | 202,057 | 196,621 | 191,687 |

Appendix C: Federally Financed Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by FY 2007 Expenditures: FY 2000–07

| (Dollars in Thousands) | | | | | | | | | |
|------------------------|---------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Rank | Institution | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| 54 | U. TX M. D. Anderson Cancer Ctr. | 81,872 | 94,053 | 117,633 | 122,869 | 150,529 | 160,953 | 182,028 | 190,508 |
| 55 | U. UT | 124,344 | 127,253 | 142,625 | 152,112 | 161,119 | 168,652 | 174,888 | 174,719 |
| 56 | MI State U. | 97,112 | 112,359 | 122,595 | 133,820 | 143,473 | 156,461 | 169,116 | 170,350 |
| 57 | U. CA, Irvine | 88,274 | 101,735 | 115,548 | 133,873 | 150,995 | 161,524 | 169,983 | 169,912 |
| 58 | Carnegie Mellon U. | 91,191 | 97,463 | 137,967 | 157,583 | 172,858 | 173,902 | 185,389 | 168,486 |
| 59 | IN U. all campuses | 107,577 | 116,781 | 132,759 | 153,625 | 166,913 | 171,528 | 170,635 | 165,934 |
| 60 | Purdue U. all campuses | 92,010 | 98,151 | 107,477 | 129,199 | 144,090 | 150,351 | 157,438 | 165,637 |
| 61 | U. MD Baltimore | 91,212 | 99,091 | 117,017 | 126,156 | 141,221 | 129,270 | 186,160 | 164,211 |
| 62 | U. South FL | 50,557 | 58,826 | 84,108 | 106,102 | 126,906 | 142,580 | 153,737 | 158,442 |
| 63 | U. KY all campuses | 73,858 | 86,239 | 100,426 | 120,003 | 129,887 | 142,794 | 151,238 | 154,688 |
| 64 | SUNY Buffalo all campuses | 96,410 | 96,595 | 121,376 | 129,794 | 143,865 | 151,890 | 153,152 | 148,989 |
| 65 | Yeshiva U. | 101,631 | 107,800 | 114,268 | 128,894 | 151,520 | 160,894 | 153,785 | 147,941 |
| 66 | U. Miami | 106,633 | 111,803 | 121,171 | 130,863 | 141,943 | 156,059 | 150,408 | 147,535 |
| 67 | LA State U. all campuses | 89,007 | 94,625 | 97,928 | 99,143 | 112,169 | 128,324 | 141,426 | 145,650 |
| 68 | Wake Forest U. | 65,585 | 78,021 | 91,738 | 108,467 | 120,075 | 141,685 | 139,549 | 141,467 |
| 69 | U. NE all campuses | 60,161 | 69,232 | 82,728 | 96,627 | 115,833 | 129,216 | 139,113 | 138,338 |
| 70 | Rutgers, The State U. NJ all campuses | 79,711 | 77,156 | 91,205 | 110,041 | 128,655 | 137,609 | 129,456 | 135,933 |
| 71 | U. TX Health Science Ctr. Houston | 79,665 | 88,545 | 98,676 | 107,481 | 106,737 | 112,509 | 122,870 | 131,879 |
| 72 | U. MA Worcester | 64,212 | 79,453 | 93,992 | 109,082 | 126,162 | 130,680 | 136,141 | 131,226 |
| 73 | NC State U. | 90,725 | 95,875 | 91,981 | 96,157 | 103,586 | 109,128 | 131,262 | 131,056 |
| 74 | VA Polytechnic Institute and State U. | 71,127 | 77,384 | 82,976 | 98,143 | 95,669 | 109,842 | 119,994 | 128,796 |
| 75 | Dartmouth C. | 56,369 | 69,844 | 87,255 | 106,034 | 123,109 | 122,329 | 140,430 | 128,164 |
| 76 | U. TN all campuses | 72,059 | 78,611 | 88,344 | 100,486 | 109,357 | 121,004 | 133,334 | 126,998 |
| 77 | U. of Medicine and Dentistry NJ | 75,318 | 86,054 | 90,235 | 105,495 | 121,812 | 143,239 | 140,923 | 126,101 |
| 78 | U. CT all campuses | 66,144 | 70,013 | 93,326 | 111,654 | 127,609 | 134,347 | 124,837 | 123,513 |
| 79 | U. NM main campus | 100,442 | 109,505 | 104,252 | 106,541 | 112,299 | 129,557 | 127,907 | 123,039 |
| 80 | Princeton U. | 74,681 | 78,620 | 97,724 | 104,011 | 111,435 | 120,042 | 117,845 | 119,171 |
| 81 | U. TX Medical Branch | 61,357 | 64,682 | 78,100 | 93,039 | 102,491 | 117,235 | 120,408 | 118,173 |
| 82 | U. KS all campuses | 68,950 | 74,494 | 82,663 | 92,888 | 101,920 | 110,768 | 115,522 | 115,670 |
| 83 | AZ State U. | 49,935 | 56,616 | 64,407 | 71,741 | 79,877 | 94,545 | 109,893 | 114,632 |
| 84 | Wayne State U. | 64,320 | 79,448 | 95,910 | 102,963 | 114,700 | 120,581 | 118,042 | 114,364 |
| 85 | FL State U. | 56,830 | 57,075 | 70,456 | 87,985 | 102,967 | 105,747 | 110,358 | 113,681 |
| 86 | Woods Hole Oceanographic Institution | 67,036 | 75,670 | 78,458 | 84,410 | 100,456 | 100,747 | 101,631 | 112,754 |
| 87 | U. CA, Santa Barbara | 80,754 | 76,828 | 78,370 | 88,422 | 92,248 | 103,955 | 106,169 | 111,848 |
| 88 | SUNY Stony Brook all campuses | 96,641 | 93,265 | 108,122 | 112,452 | 123,124 | 125,781 | 112,973 | 111,241 |
| 89 | OR State U. | 80,398 | 84,854 | 91,683 | 100,499 | 104,276 | 109,030 | 116,586 | 110,267 |
| 90 | U. MO-Columbia | 65,420 | 68,435 | 77,742 | 84,211 | 90,304 | 96,038 | 101,732 | 108,328 |
| 91 | Medical C. WI | 55,034 | 64,003 | 76,241 | 83,026 | 100,547 | 102,859 | 100,128 | 107,200 |
| 92 | MS State U. | 53,808 | 65,493 | 77,521 | 79,837 | 82,205 | 84,465 | 94,073 | 106,662 |
| 93 | SUNY Albany | 62,059 | 46,671 | 40,497 | 76,038 | 94,712 | 103,941 | 103,835 | 105,776 |
| 94 | U. GA | 62,678 | 66,913 | 78,086 | 93,884 | 96,348 | 102,966 | 92,652 | 103,256 |
| 95 | Georgetown U. | 98,836 | 93,626 | 75,342 | 88,463 | 95,852 | 100,328 | 92,268 | 101,853 |
| 96 | Medical U. SC | 41,432 | 60,543 | 75,803 | 92,893 | 103,494 | 108,196 | 104,057 | 101,402 |
| 97 | NM State U. main campus | 57,073 | 61,124 | 70,314 | 75,368 | 76,396 | 91,247 | 101,849 | 100,773 |
| 98 | U. AK Fairbanks all campuses | 46,605 | 55,287 | 66,169 | 72,607 | 75,269 | 89,637 | 98,330 | 99,588 |
| 99 | Tulane U. | 52,080 | 55,669 | 64,824 | 82,118 | 87,917 | 94,628 | 84,052 | 98,473 |
| 100 | IA State U. | 59,976 | 62,024 | 71,419 | 82,297 | 92,235 | 98,005 | 104,553 | 97,112 |
| 101 | U. TX Health Science Ctr. San Antonio | 65,251 | 71,153 | 83,761 | 86,683 | 89,662 | 95,125 | 95,110 | 95,610 |
| 102 | Brown U. | 49,943 | 58,367 | 68,215 | 81,445 | 84,126 | 90,857 | 96,922 | 95,023 |
| 103 | Tufts U. | 64,677 | 71,669 | 73,236 | 78,942 | 92,997 | 98,200 | 95,964 | 91,379 |
| 104 | VA Commonwealth U. | 52,137 | 57,315 | 65,028 | 81,201 | 89,066 | 97,322 | 97,576 | 90,137 |
| 105 | U. VT | 39,861 | 48,810 | 58,280 | 70,832 | 79,015 | 79,879 | 82,519 | 90,049 |
| 106 | UT State U. | 57,378 | 74,251 | 79,393 | 95,494 | 107,945 | 92,660 | 96,242 | 89,948 |
| 107 | U. SC all campuses | 51,872 | 51,983 | 53,403 | 63,044 | 71,856 | 65,095 | 89,294 | 89,000 |
| 108 | George Washington U. | 49,627 | 51,757 | 58,729 | 68,959 | 78,192 | 78,779 | 75,209 | 87,624 |

Appendix C: Federally Financed Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by FY 2007 Expenditures: FY 2000–07

| | | (Dollars in Thousands) | | | | | | | |
|------|--|------------------------|----------|----------|--------|----------|----------|--------|--------|
| Rank | Institution | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| 109 | Rockefeller U. | 45,211 | 55,362 | 67,559 | 75,303 | 82,535 | 85,552 | 93,742 | 86,728 |
| 110 | U. OK all campuses | 60,542 | 60,264 | 69,388 | 75,318 | 81,048 | 87,776 | 90,880 | 86,422 |
| 111 | U. DE | 37,716 | 41,830 | 48,183 | 69,493 | 76,583 | 74,721 | 79,640 | 82,539 |
| 112 | Thomas Jefferson U. | 67,448 | 64,881 | 79,217 | 85,348 | 92,296 | 86,171 | 82,551 | 81,545 |
| 113 | U. NH | 38,921 | 45,223 | 50,829 | 59,463 | 67,917 | 78,653 | 86,416 | 81,027 |
| 114 | WA State U. | 48,441 | 48,660 | 61,138 | 70,653 | 74,944 | 80,222 | 81,324 | 78,505 |
| 115 | U. MS all campuses | 28,107 | 39,451 i | 50,795 i | 62,140 | 59,787 | 67,603 | 67,717 | 77,526 |
| 116 | U. Louisville | 17,713 | 25,116 | 38,978 | 39,924 | 54,476 | 67,104 | 70,481 | 76,479 |
| 117 | MT State U. Bozeman | 30,564 | 34,857 | 39,986 | 53,283 | 58,874 | 71,604 | 75,362 | 75,765 |
| 118 | U. MA Amherst | 44,712 | 49,576 | 54,770 | 60,839 | 65,452 | 66,921 | 69,176 | 71,974 |
| 119 | NM Institute of Mining and Technology | 8,652 | 13,255 | 18,864 | 15,434 | 13,853 | 30,877 i | 47,901 | 69,050 |
| 120 | U. CA, Santa Cruz | 25,959 | 29,201 | 32,901 | 38,213 | 53,196 | 62,301 | 66,390 | 68,204 |
| 121 | Drexel U. | 14,292 | 20,159 | 30,232 | 49,271 | 54,963 | 62,606 | 68,499 | 66,795 |
| 122 | WV U. | 28,013 | 29,440 | 49,394 | 60,586 | 60,819 | 62,489 | 63,764 | 65,699 |
| 123 | U. NV, Reno | 26,267 | 31,386 | 39,958 | 47,756 | 50,787 | 60,329 | 64,476 | 62,713 |
| 124 | Naval Postgraduate School | 39,596 i | 45,884 i | 52,172 i | 58,463 | 50,771 i | 43,079 | 54,528 | 62,434 |
| 125 | U. AR for Medical Sciences | 29,962 | 34,219 | 27,491 | 41,681 | 53,249 | 59,053 | 66,127 | 60,836 |
| 126 | U. Dayton | 31,717 | 34,102 | 40,191 | 47,327 | 56,647 | 58,782 | 56,779 | 60,089 |
| 127 | U. CA, Riverside | 21,085 | 25,713 | 32,305 | 40,409 | 40,981 | 52,919 | 58,023 | 56,129 |
| 128 | Auburn U. all campuses | 31,515 | 40,097 | 42,432 | 45,374 | 49,565 | 51,319 | 45,540 | 54,949 |
| 129 | Temple U. | 38,213 | 41,643 | 44,577 | 51,309 | 50,456 | 53,987 | 50,904 | 54,452 |
| 130 | Rice U. | 35,144 | 35,682 | 39,739 | 43,706 | 51,157 | 54,735 | 53,880 | 54,301 |
| 131 | U. of Notre Dame | 27,362 | 29,801 | 33,285 | 41,220 | 48,650 | 51,072 | 55,710 | 53,974 |
| 132 | Clemson U. | 31,304 | 48,560 | 47,174 | 62,552 | 61,065 | 56,829 | 56,268 | 53,905 |
| 133 | U. RI | 38,538 | 43,161 | 45,453 | 51,942 | 48,590 | 42,132 | 46,898 | 52,561 |
| 134 | FL International U. | 20,296 | 23,940 | 32,057 | 40,860 | 47,913 | 51,328 | 45,894 | 52,141 |
| 135 | U. OR | 30,793 | 32,232 | 37,177 | 36,127 | 43,634 | 43,564 | 46,583 | 49,467 |
| 136 | U. MD Baltimore County | 20,244 | 23,695 | 29,376 | 34,164 | 37,548 | 43,377 | 44,830 | 49,461 |
| 137 | U. Central FL | 13,801 | 22,342 | 29,929 | 47,749 | 44,020 | 40,013 | 37,974 | 49,359 |
| 138 | Rensselaer Polytechnic Institute | 25,555 | 25,894 | 26,490 | 32,295 | 36,651 | 42,338 | 44,690 | 48,924 |
| 139 | Charles R. Drew U. of Medicine and Science | 21,969 | 27,415 | 39,259 | 39,407 | 40,430 | 41,207 | 44,394 | 48,580 |
| 140 | U. AL Huntsville, The | 25,939 | 30,625 | 35,660 | 35,558 | 39,607 | 42,358 | 44,636 | 48,415 |
| 141 | St. Louis U. all campuses | 26,453 | 28,117 | 31,215 | 36,989 | 36,989 e | 44,757 | 45,183 | 47,704 |
| 142 | KS State U. | 31,185 | 33,998 | 43,988 | 53,313 | 56,088 | 58,821 | 52,649 | 47,654 |
| 143 | George Mason U. | 20,669 | 25,992 | 31,890 | 38,510 | 39,758 | 36,475 | 35,911 | 46,588 |
| 144 | U. ID | 23,014 | 26,548 | 33,465 | 42,861 | 48,565 | 47,212 | 47,018 | 46,144 |
| 145 | U. NV, Las Vegas | 13,815 | 15,681 | 22,367 | 32,511 | 28,013 | 35,942 | 42,772 | 46,128 |
| 146 | ND State U. all campuses | 15,463 | 15,207 | 21,414 | 37,940 | 45,375 | 46,060 | 45,418 | 45,475 |
| 147 | U. ND all campuses | 13,880 | 15,743 | 25,004 | 28,336 | 36,349 | 32,092 | 38,848 | 44,610 |
| 148 | U. Southern MS | 15,084 | 18,061 | 22,398 | 31,653 | 32,075 | 34,941 | 34,577 | 42,645 |
| 149 | U. ME | 24,412 | 23,873 | 23,732 | 28,901 | 36,513 | 28,951 | 41,394 | 41,963 |
| 150 | Brandeis U. | 26,444 | 30,031 | 29,006 | 33,722 | 38,041 | 39,788 | 41,184 | 41,358 |
| 151 | NJ Institute of Technology | 17,381 | 23,274 | 27,550 | 30,535 | 30,995 | 35,716 | 35,489 | 41,330 |
| 152 | Medical C. GA | 15,210 | 21,116 | 23,317 | 28,280 | 35,841 | 41,910 | 41,555 | 40,609 |
| 153 | U. Houston | 21,365 | 21,876 | 31,455 | 32,556 | 34,468 | 37,262 | 38,559 | 40,116 |
| 154 | Rush U. | 32,573 | 37,301 | 44,756 | 49,834 | 51,706 | 49,150 | 45,044 | 39,601 |
| 155 | Uniformed Services U. of the Health Sciences | 11,023 | 10,105 | 10,294 | 9,527 | 62,408 | 50,016 | 39,461 | 37,275 |
| 156 | U. AR main campus | 20,778 | 23,172 | 27,588 | 27,071 | 31,088 | 33,496 | 31,926 | 37,016 |
| 157 | OK State U. all campuses | 24,770 | 25,636 | 31,100 | 37,748 | 43,345 | 36,637 | 37,943 | 36,958 |
| 158 | Northeastern U. | 26,916 | 23,532 | 24,295 | 26,895 | 30,659 | 36,524 | 36,071 | 36,028 |
| 159 | TX A&M U. System Health Science Ctr. | 14,321 | 18,384 | 22,417 | 26,729 | 30,283 | 32,949 | 35,214 | 35,004 |
| 160 | Howard U. | 25,292 | 27,848 | 33,949 | 36,137 | 40,086 | 40,020 | 34,959 | 33,996 |
| 161 | U. MT-Missoula, The | 18,378 | 19,194 | 22,612 | 27,220 | 34,478 | 36,433 | 33,039 | 33,855 |
| 162 | San Diego State U. | 22,802 | 23,621 | 25,223 | 28,084 | 30,092 | 35,328 | 35,351 | 33,139 |
| 163 | U. PR Medical Sciences Campus | 16,657 | 19,433 | 23,931 | 25,845 | 28,063 | 29,863 | 31,199 | 31,955 |

Appendix C: Federally Financed Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by FY 2007 Expenditures: FY 2000–07

| (Dollars in Thousands) | | | | | | | | | |
|------------------------|---|----------|----------|----------|----------|----------|---------|--------|--------|
| Rank | Institution | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| 164 | U. Toledo | 6,312 | 6,701 | 8,996 | 10,928 | 13,229 | 15,521 | 16,534 | 31,863 |
| 165 | Meharry Medical C. | 9,192 e | 14,822 i | 20,453 | 24,195 | 26,159 | 27,408 | 30,914 | 31,263 |
| 166 | Jackson State U. | 10,690 | 22,750 | 21,721 | 25,607 | 28,806 | 30,472 | 30,783 | 30,980 |
| 167 | Desert Research Institute | 19,923 | 22,018 | 22,760 | 23,265 | 26,235 | 28,655 | 30,407 | 30,752 |
| 168 | U. MD Biotechnology Institute | 11,157 | 16,742 | 16,701 | 19,989 | 24,436 | 31,276 | 32,005 | 30,375 |
| 169 | MI Technological U. | 16,650 | 17,620 | 17,973 | 17,667 | 18,735 | 19,760 | 18,757 | 28,193 |
| 170 | SUNY Upstate Medical U. | 8,461 | 8,815 | 13,404 | 16,652 | 22,650 | 23,275 | 27,247 | 27,933 |
| 171 | U. AL, The | 19,486 | 22,183 | 26,900 | 26,241 | 25,329 | 24,393 | 22,847 | 27,744 |
| 172 | NY Medical C. | 17,975 | 18,344 | 19,318 | 23,387 | 25,103 | 25,242 | 26,579 | 26,101 |
| 173 | C. of William and Mary all campuses | 13,031 | 15,288 | 18,007 | 21,992 | 26,049 | 26,898 | 29,121 | 25,983 |
| 174 | Old Dominion U. | 14,908 | 15,280 | 17,170 | 18,882 | 21,377 | 24,463 | 27,506 | 25,694 |
| 175 | U. WY | 16,556 | 20,017 | 20,017 e | 23,186 | 23,186 e | 29,351 | 25,844 | 25,537 |
| 176 | Syracuse U. all campuses | 29,620 | 30,036 | 32,704 | 34,559 | 43,162 | 46,945 | 25,299 | 24,894 |
| 177 | Loyola U. Chicago | 20,695 | 26,474 | 27,678 | 28,107 | 29,150 | 30,584 | 25,420 | 24,794 |
| 178 | Loma Linda U. | 18,811 | 19,462 i | 20,114 | 22,675 | 26,631 | 26,855 | 28,788 | 24,666 |
| 179 | GA State U. | 12,090 | 13,575 | 18,967 | 22,218 | 25,845 | 25,204 | 24,968 | 24,569 |
| 180 | Hampton U. | 8,994 | 8,377 | 10,058 | 18,417 | 31,443 | 42,792 | 28,584 | 23,836 |
| 181 | SUNY Health Science Ctr. Brooklyn | 22,860 | 22,860 e | 23,011 i | 23,162 i | 23,313 i | 23,466 | 25,184 | 23,232 |
| 182 | Morehouse School of Medicine | 15,419 | 18,127 | 21,919 | 24,382 | 23,331 | 24,213 | 25,156 | 23,230 |
| 183 | TX Tech U. | 21,480 | 22,967 | 28,202 | 31,776 | 23,181 | 22,071 | 22,278 | 22,874 |
| 184 | Stevens Institute of Technology | 8,785 | 8,094 | 8,094 e | 13,783 i | 19,473 | 18,626 | 22,501 | 22,809 |
| 185 | San Jose State U. | 11,825 e | 14,301 | 15,777 | 18,935 | 20,363 | 21,160 | 23,197 | 22,609 |
| 186 | Wright State U. all campuses | 12,543 | 15,417 | 16,070 | 18,733 | 20,599 | 20,527 | 22,430 | 22,229 |
| 187 | Lehigh U. | 12,726 | 13,961 | 13,519 | 16,215 | 19,400 | 21,061 | 18,248 | 22,116 |
| 188 | CUNY The City C. | 13,059 | 13,022 | 13,319 | 13,456 | 19,711 | 22,289 | 21,408 | 21,776 |
| 189 | U. TX El Paso | 16,416 | 16,167 | 16,457 | 18,116 | 16,900 | 15,378 | 19,331 | 21,018 |
| 190 | Eastern VA Medical School | 12,114 | 11,389 | 13,077 | 15,431 | 17,530 | 19,969 | 19,399 | 20,620 |
| 191 | U. TX San Antonio | 7,441 | 8,012 | 7,111 | 9,982 | 11,644 | 15,924 | 20,277 | 20,545 |
| 192 | Boston C. | 16,673 | 20,123 | 22,827 | 22,907 | 22,907 e | 17,801 | 18,344 | 20,336 |
| 193 | U. MA Lowell | 9,905 | 11,196 | 14,932 | 15,821 | 16,655 | 17,608 | 18,741 | 20,045 |
| 194 | U. TX Arlington | 5,106 | 9,413 | 7,848 | 7,884 | 10,498 | 17,654 | 19,006 | 19,774 |
| 195 | IL Institute of Technology | 10,926 | 10,917 | 11,277 | 13,900 | 14,903 | 16,493 | 19,121 | 19,731 |
| 196 | U. Southern ME | 123 e | 2,046 i | 3,969 i | 5,892 i | 7,815 i | 9,738 i | 11,662 | 19,656 |
| 197 | U. North TX Health Science Ctr. Ft. Worth | 5,799 | 6,562 | 7,770 | 9,927 | 13,259 | 17,037 | 19,183 | 19,203 |
| 198 | OH U. all campuses | 11,695 | 12,898 | 17,677 | 20,406 | 20,831 | 20,736 | 19,573 | 18,605 |
| 199 | Marshall U. | 5,618 | 5,980 | 9,502 | 12,802 | 17,104 | 18,660 | 15,360 | 18,412 |
| 200 | U. WI Milwaukee | 8,425 | 11,089 | 11,461 | 13,704 | 13,670 | 15,893 | 15,867 | 18,368 |
| 201 | U. MO-Rolla | 9,804 | 11,929 | 15,749 | 18,142 | 20,218 | 21,772 | 22,351 | 18,256 |
| 202 | CO School of Mines | 11,995 | 12,314 | 13,230 | 16,314 | 16,550 | 15,501 | 20,543 | 18,248 |
| 203 | Wichita State U. | 5,228 | 5,726 | 6,687 | 10,619 | 11,796 | 9,589 | 16,302 | 18,086 |
| 204 | FL Atlantic U. | 12,359 | 14,099 | 15,566 | 17,517 | 14,662 | 15,956 | 19,952 | 18,037 |
| 205 | U. TX Dallas | 7,049 | 7,049 e | 11,624 | 14,530 | 15,733 | 19,933 | 19,954 | 17,783 |
| 206 | U. Memphis, The | 11,177 | 11,012 | 14,072 | 14,985 | 14,078 | 15,125 | 15,964 | 17,765 |
| 207 | Southern IL U. Carbondale | 10,130 | 10,868 | 10,789 | 12,078 | 15,557 | 16,975 | 20,108 | 17,724 |
| 208 | Brigham Young U. all campuses | 10,378 | 11,659 | 12,900 | 16,564 | 17,129 | 16,878 | 17,309 | 17,118 |
| 209 | Portland State U. | 11,217 | 11,341 | 11,914 | 13,276 | 13,276 e | 18,580 | 18,797 | 17,054 |
| 210 | SD State U. | 7,448 | 8,456 | 9,115 | 11,441 | 13,447 | 13,914 | 12,788 | 16,729 |
| 211 | U. SD | 2,084 | 3,534 | 5,830 | 8,308 | 12,849 | 15,448 | 17,308 | 16,683 |
| 212 | U. MO-Kansas City | 7,490 | 8,176 | 10,795 | 14,232 | 15,696 | 16,960 | 15,965 | 16,542 |
| 213 | U. South AL | 8,276 | 8,276 e | 15,922 | 17,638 | 17,832 | 16,538 | 15,147 | 16,400 |
| 214 | U. PR Rio Piedras Campus | 5,620 | 6,013 | 4,971 | 6,760 | 8,093 | 14,301 | 16,881 | 16,114 |
| 215 | CUNY Hunter C. | 8,650 | 10,922 | 14,573 | 17,047 | 18,836 | 18,544 | 18,472 | 15,768 |
| 216 | NC Agricultural and Technical State U. | 11,187 | 11,937 | 11,953 | 12,226 | 13,487 | 16,348 | 15,885 | 15,362 |
| 217 | Catholic U. America, The | 7,680 | 13,308 | 17,925 | 18,864 | 18,927 | 16,252 | 13,264 | 15,324 |
| 218 | FL A&M U. | 16,278 | 22,477 | 21,592 | 18,273 | 24,994 | 22,378 | 24,902 | 14,502 |

Appendix C: Federally Financed Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by FY 2007 Expenditures: FY 2000–07

(Dollars in Thousands)

| Rank | Institution | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|------|---|---------|---------|---------|---------|---------|---------|---------|--------|
| 219 | U.S. Air Force Academy | 4,505 | 5,009 | 8,163 | 12,599 | 15,739 | 15,165 | 9,678 | 14,301 |
| 220 | SUNY Binghamton | 6,319 | 6,392 | 8,959 | 8,981 | 10,414 | 10,494 | 12,213 | 13,991 |
| 221 | U. MD Ctr. for Environmental Science | 10,805 | 12,105 | 13,080 | 12,654 | 13,824 | 13,853 | 12,860 | 13,365 |
| 222 | Rochester Institute of Technology | 2,664 | 5,612 | 7,868 | 11,630 | 12,415 | 11,620 | 14,581 | 13,225 |
| 223 | Northern IL U. | 3,603 | 4,264 | 4,980 | 6,892 | 6,824 | 7,897 | 11,696 | 13,034 |
| 224 | U. of the VI | 1,957 e | 6,288 i | 10,620 | 10,772 | 11,598 | 12,213 | 12,518 | 12,561 |
| 225 | Northern AZ U. | 7,842 | 9,616 | 10,873 | 10,900 | 12,754 | 14,547 | 14,305 | 12,409 |
| 226 | ID State U. | 3,723 | 3,837 | 4,738 | 6,746 | 8,416 | 12,087 | 11,661 | 11,911 |
| 227 | San Francisco State U. | 4,561 e | 4,561 e | 13 | 6,089 | 37,056 | 12,457 | 17,255 | 11,896 |
| 228 | U. NC Charlotte | 5,380 | 5,145 | 5,850 | 7,981 | 13,816 | 10,362 | 10,792 | 11,887 |
| 229 | CA State U. Long Beach | 12,964 | 2,910 | 4,944 | 12,126 | 8,351 | 8,577 | 8,368 | 11,856 |
| 230 | Creighton U. | 5,541 | 7,275 | 6,594 | 9,413 | 13,745 | 12,683 | 10,505 | 11,716 |
| 231 | U. MA Dartmouth | 3,228 | 4,928 | 7,142 | 8,718 | 9,199 | 9,852 | 9,516 | 11,456 |
| 232 | U. NC Wilmington | 5,336 | 7,242 | 9,950 | 8,957 | 9,951 | 10,665 | 9,884 | 11,362 |
| 233 | SD School of Mines and Technology | 4,127 | 4,417 | 6,950 | 8,222 | 8,366 | 10,752 | 9,834 | 11,232 |
| 234 | U. Akron all campuses | 7,081 | 8,672 | 9,537 | 9,348 | 10,284 | 10,246 | 11,433 | 11,210 |
| 235 | U. PR Mayaguez Campus | 11,837 | 9,015 | 8,865 | 9,596 | 7,539 | 10,786 | 10,645 | 11,164 |
| 236 | Mercer U. all campuses | 11,350 | 9,076 | 8,607 | 8,018 | 9,613 | 11,235 | 11,741 | 11,075 |
| 237 | Tuskegee U. | 6,694 | 7,259 | 7,703 | 7,660 | 8,904 | 8,478 | 8,971 | 11,033 |
| 238 | U. LA Lafayette | 12,164 | 12,130 | 12,925 | 14,455 | 15,850 | 16,159 | 11,596 | 10,712 |
| 239 | East Carolina U. | 4,388 | 5,188 | 6,030 | 7,565 | 9,399 | 10,967 | 10,657 | 10,354 |
| 240 | Southern Methodist U. | 6,302 | 5,587 | 6,026 | 5,940 | 6,752 | 8,415 | 9,303 | 10,304 |
| 241 | Western MI U. | 4,584 | 6,192 | 9,913 | 12,131 | 8,313 | 11,987 | 11,214 | 10,254 |
| 242 | Morgan State U. | 4,371 | 2,390 | 1,674 | 6,232 | 7,227 | 8,126 | 12,199 | 9,992 |
| 243 | Boise State U. | 2,151 | 3,962 | 4,173 | 6,321 | 7,642 | 8,447 | 7,448 | 9,924 |
| 244 | CA State U. Los Angeles | 8,344 | 5,365 | 7,728 | 6,882 | 8,094 | 9,797 | 8,672 | 9,819 |
| 245 | Kent State U. all campuses | 7,736 | 8,158 | 9,427 | 9,278 | 9,093 | 7,619 | 8,198 | 9,801 |
| 246 | Worcester Polytechnic Institute | 4,219 | 4,506 | 5,013 | 5,966 | 8,489 | 9,424 | 10,193 | 9,545 |
| 247 | Albany Medical C. | 7,691 | 8,562 | 8,901 | 9,677 | 11,849 | 11,525 | 11,152 | 9,521 |
| 248 | Prairie View A&M U. | 7,679 | 7,094 | 7,712 | 7,886 | 7,965 | 8,464 | 9,067 | 9,217 |
| 249 | U. MA Boston | 3,378 | 2,546 | 4,837 | 5,579 | 5,412 | 6,326 | 8,610 | 9,152 |
| 250 | Villanova U. | 4,035 | 4,293 i | 4,551 e | 5,456 i | 6,361 i | 7,266 i | 8,171 i | 9,077 |
| 251 | Miami U. all campuses | 2,674 | 3,324 | 4,021 | 4,312 | 5,132 | 8,014 | 7,874 | 8,964 |
| 252 | TX Tech U. Health Science Ctr. | NA | NA | NA | NA | 7,604 | 6,730 | 9,713 | 8,765 |
| 253 | Southwest MO State U. | 484 e | 443 | 79 | 371 | 1,863 | 5,166 | 4,615 | 8,740 |
| 254 | Universidad Central del Caribe | 5,347 | 6,622 | 6,470 | 7,183 | 8,498 | 8,543 | 8,206 | 8,672 |
| 255 | TN State U. | 8,873 | 10,210 | 11,218 | 10,280 | 11,277 | 10,446 | 10,216 | 8,475 |
| 256 | AL A&M U. | 7,056 | 8,883 i | 10,710 | 30,343 | 12,023 | 12,005 | 7,537 | 8,467 |
| 257 | Western KY U. | 2,711 | 3,294 | 3,493 | 3,125 | 4,400 | 4,915 | 7,079 | 8,225 |
| 258 | Clark Atlanta U. | 16,170 | 14,354 | 15,325 | 12,367 | 13,075 | 11,346 | 10,008 | 7,905 |
| 259 | Alcorn State U. | 8,034 | 7,370 | 5,809 | 7,582 | 7,622 | 5,396 | 5,706 | 7,874 |
| 260 | U. Tulsa | 5,498 | 7,341 | 6,806 | 8,439 | 11,240 | 8,969 | 7,964 | 7,851 |
| 261 | SUNY C. of Environmental Science and Forestry | 4,332 | 4,355 | 4,630 | 5,177 | 6,499 i | 7,821 | 7,831 i | 7,842 |
| 262 | U. Denver | 7,439 | 9,248 | 8,386 | 8,268 | 9,839 | 9,017 | 8,543 | 7,694 |
| 263 | Rosalind Franklin U. of Medicine and Science | 5,117 | 6,256 | 5,638 | 6,783 | 7,843 | 9,974 | 9,507 | 7,689 |
| 264 | Teachers C. Columbia U. | 5,613 | 5,617 | 5,939 | 5,572 | 6,256 | 6,187 | 6,770 | 7,655 |
| 265 | U. HI Hilo | NA | NA | 8,499 | 5,082 | 4,217 | 8,998 | 7,678 | 7,610 |
| 266 | VA State U. | 3,602 | 4,246 | 6,895 | 6,964 | 5,655 | 2,668 | 5,813 | 7,604 |
| 267 | Clarkson U. | 3,837 | 4,286 | 4,286 e | 4,833 | 6,434 | 6,890 | 8,280 | 7,587 |
| 268 | U.S. Naval Academy | 2,770 | 3,140 | 2,324 | 3,169 | 5,341 | 5,987 | 6,487 | 7,575 |
| 269 | CA State U. Northridge | 3,182 | 3,182 e | 6,786 | 6,460 | 6,521 | 5,719 | 5,200 | 7,339 |
| 270 | CUNY Queens C. | 2,604 | 3,484 | 5,516 | 5,062 | 5,820 | 5,443 | 6,422 | 7,238 |
| 271 | U. North TX | 3,618 | 5,401 | 6,015 | 6,320 | 5,499 | 7,003 | 8,343 | 7,192 |
| 272 | U.S. Military Academy | 4,440 i | 4,810 i | 5,180 i | 5,550 i | 5,920 i | 6,290 i | 6,660 i | 7,043 |
| 273 | U. GU | 3,165 | 3,355 | 4,183 | 5,818 | 9,205 | 8,265 i | 7,324 | 6,867 |

Appendix C: Federally Financed Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by FY 2007 Expenditures: FY 2000–07

(Dollars in Thousands)

| Rank | Institution | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|------|---|---------|---------|---------|---------|---------|---------|---------|-------|
| 274 | Marquette U. | 3,085 | 3,309 | 3,565 | 4,409 | 6,046 | 6,979 | 7,566 | 6,842 |
| 275 | Air Force Institute of Technology | 5,371 | 1,671 | 2,609 | 6,418 | 4,664 | 4,934 | 5,212 | 6,681 |
| 276 | TX A&M U. Corpus Christi | 1,363 | 2,357 | 3,127 | 4,581 | 5,685 | 4,572 | 7,798 | 6,609 |
| 277 | Ponce School of Medicine | 3,257 | 3,736 | 3,720 | 6,270 | 9,179 | 6,715 | 5,022 | 6,594 |
| 278 | DE State U. | 3,052 | 2,222 | 2,819 | 3,636 | 4,342 i | 5,048 | 6,506 | 6,487 |
| 279 | Embry-Riddle Aeronautical U. | 1,551 e | 6,987 | 4,174 | 3,323 | 5,179 | 6,642 | 6,531 i | 6,419 |
| 280 | Polytechnic U. | 8,200 | 4,063 | 4,918 | 4,789 i | 4,660 | 8,623 | 7,486 | 6,329 |
| 281 | Bowling Green State U. all campuses | 1,847 e | 2,395 | 2,829 | 4,378 | 5,318 | 6,418 | 5,408 | 6,299 |
| 282 | TN Technological U. | 1,452 | 1,124 | 1,695 | 1,539 | 2,564 | 3,515 | 3,601 | 6,076 |
| 283 | Fisk U. | 2,652 | 2,577 | 3,030 | 3,000 | 5,000 | 6,000 | 6,000 | 6,000 |
| 284 | Norfolk State U. | 3,273 | 3,952 | 4,902 | 4,404 | 6,054 | 6,055 | 4,621 | 5,998 |
| 285 | Wheeling Jesuit U. | 1,795 i | 2,392 i | 2,989 i | 3,586 i | 4,183 i | 4,780 i | 5,377 i | 5,974 |
| 286 | New School, The | 873 | 1,083 | 1,083 e | 741 | 2,330 | 2,960 | 4,854 | 5,922 |
| 287 | FL Institute of Technology | 2,980 | 2,614 | 3,646 | 5,204 | 5,575 | 5,170 | 6,138 | 5,570 |
| 288 | CA State Polytechnic U. San Luis Obispo | 7,605 | 6,153 | 5,968 | 3,820 | 2,616 | 5,743 | 6,461 | 5,391 |
| 289 | Oakland U. | 3,033 e | 5,318 | 4,903 | 4,470 | 5,559 | 5,599 | 6,205 | 5,386 |
| 290 | U. NC Greensboro | 1,535 e | 2,803 | 3,340 | 2,704 | 3,267 | 3,876 | 5,211 | 5,256 |
| 291 | Cleveland State U. | 3,318 | 3,986 | 4,649 | 3,611 | 6,380 | 7,206 | 5,159 | 5,097 |
| 292 | Wesleyan U. | 4,058 | 3,893 | 3,734 | 4,424 | 5,388 | 5,180 | 4,744 | 5,094 |
| 293 | TX A&M U. Kingsville | 2,179 | 1,828 | 1,956 | 2,766 | 3,832 | 4,972 | 4,625 | 5,067 |
| 294 | U. AK Anchorage all campuses | 2,537 e | 3,390 i | 4,244 e | 5,316 | 6,721 | 7,470 | 6,333 | 4,967 |
| 295 | U. PR Humacao | ne | ne | ne | ne | 3,201 | 3,325 | 4,080 | 4,930 |
| 296 | East TN State U. | 2,768 | 3,572 | 3,908 | 4,642 | 4,412 | 5,015 | 4,713 | 4,864 |
| 297 | Tarleton State U. | 1,426 | 4,094 | 5,216 | 5,698 | 5,208 | 6,386 | 5,488 | 4,852 |
| 298 | Morehouse C. | 1,843 e | 2,113 i | 2,383 i | 2,653 i | 2,923 i | 3,196 | 5,378 | 4,743 |
| 299 | AR State U. main campus | 267 | 321 | 312 | 385 | 638 | 1,080 | 3,938 | 4,694 |
| 300 | CA State U. Dominguez Hills | 909 | 2,578 | 2,783 | 3,471 | 4,179 | 2,051 | 2,530 | 4,580 |

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

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$740,949 in federally financed R&D expenditures in FY 2007.

NOTES: Institutions reporting zero expenditures in the ranked total for FY 2007 are not included in this table. Tied institutions are ranked alphabetically. Table shows top 300 rankings.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix D: Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by all S&E R&D Expenditures for the First 150 Institutions, Ranked by Source of Funds: FY 2007

(Dollars in Thousands)

| Rank | Institution | All R&D expenditures | Federal government | State and local government | Industry | Institution funds | All other sources |
|------|---|----------------------|--------------------|----------------------------|-----------|-------------------|-------------------|
| | All institutions | 49,430,767 | 30,440,745 | 3,145,376 | 2,672,333 | 9,655,290 | 3,517,023 |
| 1 | Johns Hopkins U., The ^a | 1,554,103 | 1,362,836 | 4,870 | 27,453 | 76,474 | 82,470 |
| 2 | U. CA, San Francisco | 842,840 | 467,402 | 24,578 | 45,659 | 145,705 | 159,496 |
| 3 | U. WI Madison | 840,672 | 469,076 | 32,780 | 25,090 | 238,934 | 74,792 |
| 4 | U. CA, Los Angeles | 823,083 | 488,846 | 12,981 | 39,731 | 161,738 | 119,787 |
| 5 | U. MI all campuses | 808,731 | 577,201 | 6,850 | 36,282 | 145,970 | 42,428 |
| 6 | U. CA, San Diego | 798,896 | 475,708 | 26,072 | 44,768 | 132,658 | 119,690 |
| 7 | Duke U. | 781,843 | 459,122 | 17,895 | 181,072 | 79,872 | 43,882 |
| 8 | U. WA | 756,787 | 620,375 | 10,692 | 63,560 | 41,650 | 20,510 |
| 9 | OH State U. all campuses | 720,206 | 313,242 | 112,272 | 142,177 | 102,158 | 50,357 |
| 10 | Stanford U. | 687,511 | 534,787 | 6,002 | 54,181 | 46,522 | 46,019 |
| 11 | PA State U. all campuses | 652,144 | 370,789 | 69,662 | 93,535 | 116,041 | 2,117 |
| 12 | U. PA | 648,247 | 449,687 | 7,542 | 42,427 | 63,310 | 85,281 |
| 13 | Cornell U. all campuses | 641,936 | 367,094 | 71,223 | 23,398 | 116,868 | 63,353 |
| 14 | U. MN all campuses | 624,149 | 337,966 | 56,877 | 29,432 | 105,379 | 94,495 |
| 15 | MA Institute of Technology | 614,352 | 476,318 | 689 | 81,570 | 10,213 | 45,562 |
| 16 | U. CA, Davis | 600,508 | 256,994 | 49,921 | 26,159 | 201,084 | 66,350 |
| 17 | U. FL | 592,835 | 240,819 | 100,792 | 34,124 | 184,855 | 32,245 |
| 18 | Washington U. St. Louis | 572,775 | 424,451 | 14,669 | 13,725 | 80,700 | 39,230 |
| 19 | U. Pittsburgh all campuses | 558,566 | 441,357 | 10,561 | 10,153 | 69,836 | 26,659 |
| 20 | U. CA, Berkeley | 552,365 | 251,043 | 41,298 | 25,361 | 151,941 | 82,722 |
| 21 | Columbia U. in the City of NY | 545,995 | 459,748 | 10,981 | 12,845 | 44,676 | 17,745 |
| 22 | TX A&M U. | 543,888 | 228,363 | 121,498 | 36,465 | 146,757 | 10,805 |
| 23 | U. AZ | 531,753 | 269,941 | 7,603 | 27,566 | 190,406 | 36,237 |
| 24 | U. CO all campuses | 527,587 | 442,303 | 5,342 | 14,498 | 40,973 | 24,471 |
| 25 | U. Southern CA | 508,138 | 355,084 | 6,258 | 48,618 | 98,178 | 0 |
| 26 | U. TX M. D. Anderson Cancer Ctr. | 496,539 | 190,508 | 131,884 | 34,308 | 78,752 | 61,087 |
| 27 | U. NC Chapel Hill | 477,231 | 346,672 | 19,120 | 8,670 | 102,769 | 0 |
| 28 | U. IL Urbana-Champaign | 473,890 | 253,612 | 36,622 | 12,333 | 155,044 | 16,279 |
| 29 | GA Institute of Technology all campuses | 472,591 | 260,230 | 12,915 | 45,651 | 152,356 | 1,439 |
| 30 | Harvard U. | 451,276 | 392,103 | 1,732 | 11,358 | 0 | 46,083 |
| 31 | Yale U. | 448,671 | 349,027 | 2,391 | 14,616 | 19,249 | 63,388 |
| 32 | U. TX Austin | 446,765 | 289,331 | 22,120 | 35,593 | 76,412 | 23,309 |
| 33 | Northwestern U. | 443,345 | 249,411 | 5,653 | 14,714 | 124,983 | 48,584 |
| 34 | Baylor C. of Medicine | 438,280 | 263,146 | 2,801 | 18,383 | 66,790 | 87,160 |
| 35 | Purdue U. all campuses | 415,172 | 165,637 | 49,530 | 55,979 | 142,272 | 1,754 |
| 36 | Vanderbilt U. | 399,149 | 312,178 | 370 | 6,535 | 56,299 | 23,767 |
| 37 | Emory U. | 398,383 | 271,445 | 8,504 | 6,268 | 49,816 | 62,350 |
| 38 | U. Cincinnati all campuses | 375,852 | 253,833 | 19,225 | 5,554 | 77,668 | 19,572 |
| 39 | U. Rochester | 373,247 | 280,132 | 10,585 | 25,408 | 37,935 | 19,187 |
| 40 | LA State U. all campuses | 372,421 | 145,650 | 85,405 | 14,861 | 99,381 | 27,124 |
| 41 | Case Western Reserve U. | 372,374 | 304,742 | 21,104 | 5,772 | 24,517 | 16,239 |
| 42 | VA Polytechnic Institute and State U. | 366,960 | 128,796 | 110,292 | 17,110 | 92,708 | 18,054 |
| 43 | U. IA | 363,243 | 222,944 | 10,355 | 16,382 | 89,661 | 23,901 |
| 44 | MI State U. | 360,852 | 170,350 | 42,524 | 12,255 | 123,704 | 12,019 |
| 45 | Scripps Research Institute, The | 360,511 | 267,073 | 134 | 14,578 | 58,371 | 20,355 |
| 46 | U. MD College Park | 359,760 | 218,973 | 20,663 | 10,869 | 99,244 | 10,011 |
| 47 | U. MD Baltimore | 358,851 | 164,211 | 19,337 | 31,968 | 90,550 | 52,785 |
| 48 | U. AL Birmingham, The | 351,457 | 269,006 | 319 | 8,676 | 54,349 | 19,107 |

Appendix D: Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by all S&E R&D Expenditures for the First 150 Institutions, Ranked by Source of Funds: FY 2007

(Dollars in Thousands)

| Rank | Institution | All R&D expenditures | Federal government | State and local government | Industry | Institution funds | All other sources |
|------|--|----------------------|--------------------|----------------------------|----------|-------------------|-------------------|
| 49 | U. IL Chicago | 342,421 | 208,881 | 9,165 | 9,187 | 92,950 | 22,238 |
| 50 | U. TX Southwestern Medical Ctr. Dallas | 341,090 | 191,687 | 37,687 | 19,036 | 11,678 | 81,002 |
| 51 | U. NE all campuses | 336,468 | 138,338 | 7,392 | 14,093 | 147,556 | 29,089 |
| 52 | U. GA | 332,612 | 103,256 | 41,851 | 4,064 | 172,772 | 10,669 |
| 53 | NC State U. | 331,662 | 131,056 | 88,606 | 41,585 | 70,022 | 393 |
| 54 | U. KY all campuses | 331,606 | 154,688 | 43,404 | 9,562 | 96,130 | 27,822 |
| 55 | U. Chicago | 322,488 | 261,870 | 5,064 | 6,040 | 24,452 | 25,062 |
| 56 | SUNY Buffalo all campuses | 314,837 | 148,989 | 14,076 | 21,281 | 94,567 | 35,924 |
| 57 | Rutgers, The State U. NJ all campuses | 311,612 | 135,933 | 33,205 | 9,599 | 99,216 | 33,659 |
| 58 | U. CA, Irvine | 309,554 | 169,912 | 10,238 | 16,564 | 66,674 | 46,166 |
| 59 | SUNY Albany | 309,221 | 105,776 | 67,074 | 27,704 | 91,850 | 16,817 |
| 60 | NY U. | 297,867 | 194,303 | 4,949 | 9,340 | 37,988 | 51,287 |
| 61 | IN U. all campuses | 294,981 | 165,934 | 5,442 | 8,791 | 50,565 | 64,249 |
| 62 | CO State U. | 288,497 | 210,746 | 12,327 | 14,681 | 42,673 | 8,070 |
| 63 | OR Health & Science U. | 287,430 | 227,441 | 5,154 | 14,267 | 21,846 | 18,722 |
| 64 | CA Institute of Technology | 285,488 | 253,657 | 2,828 | 6,315 | 11,118 | 11,570 |
| 65 | U. South FL | 272,661 | 158,442 | 31,239 | 15,680 | 64,165 | 3,135 |
| 66 | Mt. Sinai School of Medicine | 269,451 | 221,397 | 4,075 | 12,331 | 7,370 | 24,278 |
| 67 | SUNY Stony Brook all campuses | 268,282 | 111,241 | 40,255 | 4,845 | 103,122 | 8,819 |
| 68 | U. HI Manoa | 266,447 | 208,196 | 15,425 | 21,937 | 16,343 | 4,546 |
| 69 | Boston U. | 249,279 | 232,115 | 475 | 5,850 | 0 | 10,839 |
| 70 | U. UT | 247,794 | 174,719 | 2,085 | 10,802 | 47,613 | 12,575 |
| 71 | U. TN all campuses | 243,184 | 126,998 | 43,895 | 16,839 | 43,402 | 12,050 |
| 72 | U. of Medicine and Dentistry NJ | 236,834 | 126,101 | 14,640 | 17,395 | 53,969 | 24,729 |
| 73 | Wayne State U. | 235,186 | 114,364 | 12,764 | 10,992 | 79,440 | 17,626 |
| 74 | Rockefeller U. | 233,917 | 86,728 | 205 | 2,574 | 133,502 | 10,908 |
| 75 | U. VA all campuses | 230,181 | 198,274 | 477 | 3,891 | 16,986 | 10,553 |
| 76 | U. MO-Columbia | 228,654 | 108,328 | 18,714 | 1,937 | 91,203 | 8,472 |
| 77 | U. CT all campuses | 224,679 | 123,513 | 9,740 | 8,233 | 67,443 | 15,750 |
| 78 | AZ State U. | 224,352 | 114,632 | 24,254 | 16,205 | 63,562 | 5,699 |
| 79 | IA State U. | 217,158 | 97,112 | 45,581 | 11,338 | 57,924 | 5,203 |
| 80 | Clemson U. | 211,760 | 53,905 | 40,140 | 12,424 | 98,858 | 6,433 |
| 81 | U. Miami | 210,534 | 147,535 | 4,611 | 20,231 | 12,785 | 25,372 |
| 82 | WA State U. | 210,010 | 78,505 | 34,476 | 7,768 | 80,457 | 8,804 |
| 83 | MS State U. | 206,207 | 106,662 | 29,481 | 7,496 | 62,568 | 0 |
| 84 | U. KS all campuses | 202,129 | 115,670 | 4,573 | 3,318 | 70,095 | 8,473 |
| 85 | Carnegie Mellon U. | 197,143 | 168,486 | 4,088 | 12,980 | 5,371 | 6,218 |
| 86 | Dartmouth C. | 192,846 | 128,164 | 4,247 | 6,033 | 43,057 | 11,345 |
| 87 | Yeshiva U. | 192,199 | 147,941 | 0 | 1,593 | 30,821 | 11,844 |
| 88 | U. TX Health Science Ctr. Houston | 191,724 | 131,879 | 13,256 | 7,861 | 19,591 | 19,137 |
| 89 | U. CA, Santa Barbara | 191,204 | 111,848 | 3,678 | 12,941 | 35,249 | 27,488 |
| 90 | FL State U. | 189,565 | 113,681 | 10,767 | 1,123 | 56,317 | 7,677 |
| 91 | OR State U. | 189,368 | 110,267 | 38,133 | 3,274 | 34,661 | 3,033 |
| 92 | Princeton U. | 188,732 | 119,171 | 1,332 | 4,822 | 52,392 | 11,015 |
| 93 | Wake Forest U. | 185,609 | 141,467 | 12,096 | 14,656 | 5,920 | 11,470 |
| 94 | Medical U. SC | 184,624 | 101,402 | 1,398 | 11,935 | 65,003 | 4,886 |
| 95 | U. TX Medical Branch | 183,492 | 118,173 | 7,425 | 6,659 | 30,810 | 20,425 |
| 96 | U. NM main campus | 177,430 | 123,039 | 2,141 | 5,375 | 43,386 | 3,489 |
| 97 | U. OK all campuses | 176,825 | 86,422 | 15,548 | 9,964 | 51,091 | 13,800 |

Appendix D: Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by all S&E R&D Expenditures for the First 150 Institutions, Ranked by Source of Funds: FY 2007

(Dollars in Thousands)

| Rank | Institution | All R&D expenditures | Federal government | State and local government | Industry | Institution funds | All other sources |
|------|---------------------------------------|----------------------|--------------------|----------------------------|----------|-------------------|-------------------|
| 98 | U. TX Health Science Ctr. San Antonio | 160,282 | 95,610 | 5,846 | 8,622 | 36,102 | 14,102 |
| 99 | U. SC all campuses | 158,857 | 89,000 | 3,722 | 3,166 | 52,600 | 10,369 |
| 100 | Medical C. WI | 158,171 | 107,200 | 685 | 1,932 | 33,606 | 14,748 |
| 101 | U. MA Worcester | 157,469 | 131,226 | 0 | 16,266 | 1,385 | 8,592 |
| 102 | Brown U. | 152,619 | 95,023 | 391 | 3,108 | 49,938 | 4,159 |
| 103 | U. AK Fairbanks all campuses | 151,782 e | 99,588 i | 1,231 i | 9,484 i | 41,479 i | 0 i |
| 104 | U. Louisville | 151,226 | 76,479 | 11,437 | 2,297 | 41,223 | 19,790 |
| 105 | NM State U. main campus | 148,120 | 100,773 | 16,018 | 887 | 29,187 | 1,255 |
| 106 | U. MA Amherst | 141,351 | 71,974 | 5,638 | 5,195 | 48,755 | 9,789 |
| 107 | Auburn U. all campuses | 140,629 | 54,949 | 2,236 | 4,536 | 76,470 | 2,438 |
| 108 | UT State U. | 138,065 | 89,948 | 22,303 | 3,319 | 18,438 | 4,057 |
| 109 | Woods Hole Oceanographic Institution | 137,410 | 112,754 | 217 | 1,786 | 13,994 | 8,659 |
| 110 | Tulane U. | 137,107 | 98,473 | 6,718 | 1,587 | 11,002 | 19,327 |
| 111 | VA Commonwealth U. | 134,453 | 90,137 | 7,989 | 9,782 | 20,915 | 5,630 |
| 112 | WV U. | 133,590 | 65,699 | 4,423 | 5,331 | 57,310 | 827 |
| 113 | Georgetown U. | 131,785 | 101,853 | 1,614 | 3,441 | 13,872 | 11,005 |
| 114 | Tufts U. | 130,826 | 91,379 | 890 | 10,027 | 9,908 | 18,622 |
| 115 | U. CA, Riverside | 128,243 | 56,129 | 4,948 | 5,692 | 49,140 | 12,334 |
| 116 | George Washington U. | 126,110 | 87,624 | 2,289 | 3,098 | 10,831 | 22,268 |
| 117 | U. CA, Santa Cruz | 124,856 | 68,204 | 4,058 | 3,870 | 31,980 | 16,744 |
| 118 | KS State U. | 123,900 | 47,654 | 38,223 | 2,208 | 28,555 | 7,260 |
| 119 | U. CA Office of the President | 118,910 | 256 | 45,673 | 596 | 63,831 | 8,554 |
| 120 | U. DE | 118,245 | 82,539 | 5,363 | 3,950 | 22,402 | 3,991 |
| 121 | MT State U. Bozeman | 116,999 | 75,765 | 19,704 | 4,989 | 16,541 | 0 |
| 122 | U. NH | 114,228 | 81,027 | 4,469 | 6,105 | 16,362 | 6,265 |
| 123 | U. VT | 113,195 | 90,049 | 381 | 6,000 | 16,102 | 663 |
| 124 | U. Central FL | 111,595 | 49,359 | 4,732 | 17,619 | 39,885 | 0 |
| 125 | U. AR for Medical Sciences | 108,551 | 60,836 | 7,105 | 4,682 | 21,584 | 14,344 |
| 126 | U. MS all campuses | 108,244 | 77,526 | 432 | 1,882 | 23,116 | 5,288 |
| 127 | Thomas Jefferson U. | 107,288 | 81,545 | 6,684 | 9,153 | 4,564 | 5,342 |
| 128 | ND State U. all campuses | 106,208 | 45,475 | 32,791 | 862 | 23,183 | 3,897 |
| 129 | OK State U. all campuses | 101,112 | 36,958 | 27,074 | 4,227 | 32,069 | 784 |
| 130 | U. AR main campus | 101,109 | 37,016 | 39,754 | 7,270 | 15,744 | 1,325 |
| 131 | Drexel U. | 96,575 | 66,795 | 4,047 | 2,403 | 18,025 | 5,305 |
| 132 | U. ME | 96,135 | 41,963 | 5,260 | 2,609 | 44,127 | 2,176 |
| 133 | U. NV, Reno | 95,809 | 62,713 | 3,310 | 1,487 | 27,717 | 582 |
| 134 | FL International U. | 90,903 | 52,141 | 6,044 | 5,238 | 27,480 | 0 |
| 135 | NJ Institute of Technology | 88,699 | 41,330 | 5,289 | 965 | 29,458 | 11,657 |
| 136 | Temple U. | 85,394 | 54,452 | 6,018 | 5,806 | 13,747 | 5,371 |
| 137 | Rush U. | 84,370 | 39,601 | 0 | 11,295 | 31,866 | 1,608 |
| 138 | NM Institute of Mining and Technology | 83,742 | 69,050 | 3,737 | 5,066 | 5,839 | 50 |
| 139 | U. ID | 83,390 | 46,144 | 25,037 | 867 | 9,673 | 1,669 |
| 140 | U. WY | 79,700 | 25,537 | 6,131 | 2,326 | 42,839 | 2,867 |
| 141 | TX A&M U. System Health Science Ctr. | 77,957 | 35,004 | 1,378 | 4,551 | 23,939 | 13,085 |
| 142 | U. of Notre Dame | 77,467 | 53,974 | 1,739 | 10,046 | 11,708 | 0 |
| 143 | Rensselaer Polytechnic Institute | 77,238 | 48,924 | 8,057 | 5,740 | 12,632 | 1,885 |
| 144 | U. RI | 76,237 | 52,561 | 7,703 | 3,383 | 12,590 | 0 |
| 145 | U. Dayton | 74,005 | 60,089 | 6,681 | 4,170 | 2,002 | 1,063 |
| 146 | U. Houston | 73,542 | 40,116 | 7,466 | 3,125 | 18,146 | 4,689 |

Appendix D: Science and Engineering R&D Expenditures at Universities and Colleges, Ranked by all S&E R&D Expenditures for the First 150 Institutions, Ranked by Source of Funds: FY 2007

(Dollars in Thousands)

| Rank | Institution | All R&D expenditures | Federal government | State and local government | Industry | Institution funds | All other sources |
|------|--|----------------------|--------------------|----------------------------|----------|-------------------|-------------------|
| 147 | Northeastern U. | 71,502 | 36,028 | 2,351 | 10,828 | 22,295 | 0 |
| 148 | Uniformed Services U. of the Health Sciences | 71,307 | 37,275 | 0 | 0 | 30,561 | 3,471 |
| 149 | U. AL Huntsville, The | 70,027 | 48,415 | 4,756 | 7,583 | 9,273 | 0 |
| 150 | Rice U. | 69,772 | 54,301 | 967 | 2,260 | 7,288 | 4,956 |

e = estimated; data were not provided by institution; prior-year data were used or current-year estimates were reported. i = imputed.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$777,813 in total R&D expenditures in FY 2007.

NOTE: Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix E: Science and Engineering R&D Expenditures at all Universities and Colleges Without a Medical School, Ranked by all R&D Expenditures, by Source of Funds: FY 2007

(Dollars in Thousands)

| Rank | Institution | All R&D expenditures | Federal government | State and local government | Industry | Institution funds | All other sources |
|------|---|----------------------|--------------------|----------------------------|----------|-------------------|-------------------|
| | All institutions | 15,733,267 | 8,631,791 | 1,688,477 | 880,812 | 3,732,183 | 800,004 |
| 1 | MA Institute of Technology | 614,352 | 476,318 | 689 | 81,570 | 10,213 | 45,562 |
| 2 | U. CA, Berkeley | 552,365 | 251,043 | 41,298 | 25,361 | 151,941 | 82,722 |
| 3 | TX A&M U. | 543,888 | 228,363 | 121,498 | 36,465 | 146,757 | 10,805 |
| 4 | U. TX M. D. Anderson Cancer Ctr. | 496,539 | 190,508 | 131,884 | 34,308 | 78,752 | 61,087 |
| 5 | U. IL Urbana-Champaign | 473,890 | 253,612 | 36,622 | 12,333 | 155,044 | 16,279 |
| 6 | GA Institute of Technology all campuses | 472,591 | 260,230 | 12,915 | 45,651 | 152,356 | 1,439 |
| 7 | U. TX Austin | 446,765 | 289,331 | 22,120 | 35,593 | 76,412 | 23,309 |
| 8 | Purdue U. all campuses | 415,172 | 165,637 | 49,530 | 55,979 | 142,272 | 1,754 |
| 9 | VA Polytechnic Institute and State U. | 366,960 | 128,796 | 110,292 | 17,110 | 92,708 | 18,054 |
| 10 | Scripps Research Institute, The | 360,511 | 267,073 | 134 | 14,578 | 58,371 | 20,355 |
| 11 | U. MD College Park | 359,760 | 218,973 | 20,663 | 10,869 | 99,244 | 10,011 |
| 12 | U. GA | 332,612 | 103,256 | 41,851 | 4,064 | 172,772 | 10,669 |
| 13 | NC State U. | 331,662 | 131,056 | 88,606 | 41,585 | 70,022 | 393 |
| 14 | Rutgers, The State U. NJ all campuses | 311,612 | 135,933 | 33,205 | 9,599 | 99,216 | 33,659 |
| 15 | SUNY Albany | 309,221 | 105,776 | 67,074 | 27,704 | 91,850 | 16,817 |
| 16 | CO State U. | 288,497 | 210,746 | 12,327 | 14,681 | 42,673 | 8,070 |
| 17 | CA Institute of Technology | 285,488 | 253,657 | 2,828 | 6,315 | 11,118 | 11,570 |
| 18 | Rockefeller U. | 233,917 | 86,728 | 205 | 2,574 | 133,502 | 10,908 |
| 19 | AZ State U. | 224,352 | 114,632 | 24,254 | 16,205 | 63,562 | 5,699 |
| 20 | IA State U. | 217,158 | 97,112 | 45,581 | 11,338 | 57,924 | 5,203 |
| 21 | Clemson U. | 211,760 | 53,905 | 40,140 | 12,424 | 98,858 | 6,433 |
| 22 | WA State U. | 210,010 | 78,505 | 34,476 | 7,768 | 80,457 | 8,804 |
| 23 | MS State U. | 206,207 | 106,662 | 29,481 | 7,496 | 62,568 | 0 |
| 24 | Carnegie Mellon U. | 197,143 | 168,486 | 4,088 | 12,980 | 5,371 | 6,218 |
| 25 | U. CA, Santa Barbara | 191,204 | 111,848 | 3,678 | 12,941 | 35,249 | 27,488 |
| 26 | OR State U. | 189,368 | 110,267 | 38,133 | 3,274 | 34,661 | 3,033 |
| 27 | Princeton U. | 188,732 | 119,171 | 1,332 | 4,822 | 52,392 | 11,015 |
| 28 | U. AK Fairbanks all campuses | 151,782 e | 99,588 i | 1,231 i | 9,484 i | 41,479 i | 0 i |
| 29 | NM State U. main campus | 148,120 | 100,773 | 16,018 | 887 | 29,187 | 1,255 |
| 30 | U. MA Amherst | 141,351 | 71,974 | 5,638 | 5,195 | 48,755 | 9,789 |
| 31 | Auburn U. all campuses | 140,629 | 54,949 | 2,236 | 4,536 | 76,470 | 2,438 |
| 32 | UT State U. | 138,065 | 89,948 | 22,303 | 3,319 | 18,438 | 4,057 |
| 33 | Woods Hole Oceanographic Institution | 137,410 | 112,754 | 217 | 1,786 | 13,994 | 8,659 |
| 34 | U. CA, Riverside | 128,243 | 56,129 | 4,948 | 5,692 | 49,140 | 12,334 |
| 35 | U. CA, Santa Cruz | 124,856 | 68,204 | 4,058 | 3,870 | 31,980 | 16,744 |
| 36 | KS State U. | 123,900 | 47,654 | 38,223 | 2,208 | 28,555 | 7,260 |
| 37 | U. CA Office of the President | 118,910 | 256 | 45,673 | 596 | 63,831 | 8,554 |
| 38 | U. DE | 118,245 | 82,539 | 5,363 | 3,950 | 22,402 | 3,991 |
| 39 | MT State U. Bozeman | 116,999 | 75,765 | 19,704 | 4,989 | 16,541 | 0 |
| 40 | U. NH | 114,228 | 81,027 | 4,469 | 6,105 | 16,362 | 6,265 |
| 41 | ND State U. all campuses | 106,208 | 45,475 | 32,791 | 862 | 23,183 | 3,897 |
| 42 | OK State U. all campuses | 101,112 | 36,958 | 27,074 | 4,227 | 32,069 | 784 |
| 43 | U. AR main campus | 101,109 | 37,016 | 39,754 | 7,270 | 15,744 | 1,325 |
| 44 | U. ME | 96,135 | 41,963 | 5,260 | 2,609 | 44,127 | 2,176 |
| 45 | NJ Institute of Technology | 88,699 | 41,330 | 5,289 | 965 | 29,458 | 11,657 |
| 46 | NM Institute of Mining and Technology | 83,742 | 69,050 | 3,737 | 5,066 | 5,839 | 50 |
| 47 | U. ID | 83,390 | 46,144 | 25,037 | 867 | 9,673 | 1,669 |
| 48 | U. WY | 79,700 | 25,537 | 6,131 | 2,326 | 42,839 | 2,867 |

Appendix E: Science and Engineering R&D Expenditures at all Universities and Colleges Without a Medical School, Ranked by all R&D Expenditures, by Source of Funds: FY 2007

(Dollars in Thousands)

| Rank | Institution | All R&D expenditures | Federal government | State and local government | Industry | Institution funds | All other sources |
|------|---|----------------------|--------------------|----------------------------|----------|-------------------|-------------------|
| 49 | U. of Notre Dame | 77,467 | 53,974 | 1,739 | 10,046 | 11,708 | 0 |
| 50 | Rensselaer Polytechnic Institute | 77,238 | 48,924 | 8,057 | 5,740 | 12,632 | 1,885 |
| 51 | U. RI | 76,237 | 52,561 | 7,703 | 3,383 | 12,590 | 0 |
| 52 | U. Dayton | 74,005 | 60,089 | 6,681 | 4,170 | 2,002 | 1,063 |
| 53 | U. Houston | 73,542 | 40,116 | 7,466 | 3,125 | 18,146 | 4,689 |
| 54 | Northeastern U. | 71,502 | 36,028 | 2,351 | 10,828 | 22,295 | 0 |
| 55 | U. AL Huntsville, The | 70,027 | 48,415 | 4,756 | 7,583 | 9,273 | 0 |
| 56 | Rice U. | 69,772 | 54,301 | 967 | 2,260 | 7,288 | 4,956 |
| 57 | U. MD Baltimore County | 66,968 | 49,461 | 2,161 | 815 | 12,465 | 2,066 |
| 58 | San Diego State U. | 65,810 | 33,139 | 6,817 | 830 | 17,882 | 7,142 |
| 59 | Naval Postgraduate School | 63,392 | 62,434 | 533 | 377 | 0 | 48 |
| 60 | U. MD Biotechnology Institute | 61,757 | 30,375 | 1,403 | 431 | 28,682 | 866 |
| 61 | U. OR | 61,694 | 49,467 | 436 | 765 | 7,526 | 3,500 |
| 62 | George Mason U. | 58,252 | 46,588 | 563 | 1,610 | 4,628 | 4,863 |
| 63 | TX Tech U. | 57,878 | 22,874 | 16,978 | 4,034 | 10,744 | 3,248 |
| 64 | Brandeis U. | 56,831 | 41,358 | 0 | 0 | 6,248 | 9,225 |
| 65 | U. MT-Missoula, The | 55,755 | 33,855 | 2,798 | 1,110 | 15,609 | 2,383 |
| 66 | MI Technological U. | 55,294 | 28,193 | 335 | 4,507 | 21,385 | 874 |
| 67 | U. NV, Las Vegas | 53,049 | 46,128 | 2,435 | 461 | 4,025 | 0 |
| 68 | Old Dominion U. | 52,134 | 25,694 | 4,399 | 2,651 | 19,390 | 0 |
| 69 | U. LA Lafayette | 52,075 | 10,712 | 8,085 | 0 | 17,937 | 15,341 |
| 70 | GA State U. | 51,387 | 24,569 | 4,425 | 957 | 18,703 | 2,733 |
| 71 | C. of William and Mary all campuses | 49,854 | 25,983 | 3,333 | 1,097 | 17,222 | 2,219 |
| 72 | Wichita State U. | 47,398 | 18,086 | 2,493 | 1,775 | 24,062 | 982 |
| 73 | U. Southern MS | 47,135 | 42,645 | 1,103 | 1,926 | 886 | 575 |
| 74 | U. TX Dallas | 46,477 | 17,783 | 15,319 | 4,140 | 2,297 | 6,938 |
| 75 | U. Memphis, The | 44,359 | 17,765 | 3,070 | 582 | 21,980 | 962 |
| 76 | U. MD Ctr. for Environmental Science | 40,720 | 13,365 | 4,027 | 79 | 19,622 | 3,627 |
| 77 | Desert Research Institute | 40,238 | 30,752 | 3,396 | 544 | 2,548 | 2,998 |
| 78 | U. WI Milwaukee | 40,023 | 18,368 | 5,054 | 1,076 | 13,540 | 1,985 |
| 79 | U. TX El Paso | 39,965 | 21,018 | 12,274 | 4,061 | 2,612 | 0 |
| 80 | Boston C. | 39,261 | 20,336 | 442 | 1,195 | 7,925 | 9,363 |
| 81 | SD State U. | 39,033 | 16,729 | 10,595 | 1,779 | 2,331 | 7,599 |
| 82 | OH U. all campuses | 38,671 | 18,605 | 3,075 | 2,853 | 11,795 | 2,343 |
| 83 | Jackson State U. | 36,888 | 30,980 | 0 | 358 | 5,550 | 0 |
| 84 | Lehigh U. | 36,537 | 22,116 | 8,691 | 2,154 | 3,102 | 474 |
| 85 | Syracuse U. all campuses | 36,396 | 24,894 | 2,900 | 1,406 | 5,628 | 1,568 |
| 86 | U. AL, The | 36,382 | 27,744 | 3,091 | 2,404 | 3,143 | 0 |
| 87 | SUNY Binghamton | 35,462 | 13,991 | 2,095 | 3,602 | 10,162 | 5,612 |
| 88 | U. MA Lowell | 34,824 | 20,045 | 969 | 5,222 | 8,588 | 0 |
| 89 | U. Southern ME | 34,799 | 19,656 | 1,897 | 25 | 9,523 | 3,698 |
| 90 | San Jose State U. | 34,241 | 22,609 | 7,597 | 621 | 1,319 | 2,095 |
| 91 | CUNY The City C. | 32,840 | 21,776 | 2,150 | 2,454 | 5,016 | 1,444 |
| 92 | U. TX Arlington | 32,734 | 19,774 | 1,916 | 4,625 | 6,419 | 0 |
| 93 | U. TX San Antonio | 30,542 | 20,545 | 7,858 | 636 | 1,503 | 0 |
| 94 | U. MO-Rolla | 30,395 | 18,256 | 19 | 1,349 | 8,945 | 1,826 |
| 95 | CO School of Mines | 29,939 | 18,248 | 1,687 | 10,004 | 0 | 0 |
| 96 | U. North TX Health Science Ctr. Ft. Worth | 28,187 | 19,203 | 1,452 | 807 | 4,704 | 2,021 |
| 97 | U. Akron all campuses | 27,138 | 11,210 | 672 | 3,239 | 8,298 | 3,719 |

Appendix E: Science and Engineering R&D Expenditures at all Universities and Colleges Without a Medical School, Ranked by all R&D Expenditures, by Source of Funds: FY 2007

(Dollars in Thousands)

| Rank | Institution | All R&D expenditures | Federal government | State and local government | Industry | Institution funds | All other sources |
|------|---|----------------------|--------------------|----------------------------|----------|-------------------|-------------------|
| 98 | CUNY Hunter C. | 27,046 | 15,768 | 2,376 | 95 | 6,717 | 2,090 |
| 99 | Southern IL U. Edwardsville | 26,904 | 3,133 | 1,488 | 278 | 21,729 | 276 |
| 100 | FL Atlantic U. | 26,769 | 18,037 | 2,383 | 1,123 | 2,919 | 2,307 |
| 101 | Brigham Young U. all campuses | 26,653 | 17,118 | 1,165 | 4,298 | 2,809 | 1,263 |
| 102 | Northern AZ U. | 26,566 | 12,409 | 5,143 | 2,529 | 6,485 | 0 |
| 103 | Portland State U. | 26,025 | 17,054 | 1,788 | 833 | 3,300 | 3,050 |
| 104 | U. MA Boston | 25,952 | 9,152 | 1,207 | 275 | 11,122 | 4,196 |
| 105 | Stevens Institute of Technology | 25,684 | 22,809 | 525 | 1,668 | 682 | 0 |
| 106 | NC Agricultural and Technical State U. | 24,044 | 15,362 | 51 | 131 | 8,500 | 0 |
| 107 | Hampton U. | 24,017 | 23,836 | 0 | 0 | 181 | 0 |
| 108 | SUNY C. of Environmental Science and Forestry | 23,854 | 7,842 | 1,982 | 1,147 | 12,363 | 520 |
| 109 | Miami U. all campuses | 23,729 | 8,964 | 2,082 | 390 | 11,500 | 793 |
| 110 | IL Institute of Technology | 22,955 | 19,731 | 363 | 1,426 | 1,070 | 365 |
| 111 | U. NC Charlotte | 22,165 | 11,887 | 2,542 | 6,657 | 1,079 | 0 |
| 112 | U. PR Rio Piedras Campus | 21,379 | 16,114 | 1 | 7 | 5,235 | 22 |
| 113 | Rochester Institute of Technology | 20,961 | 13,225 | 450 | 2,437 | 3,688 | 1,161 |
| 114 | San Francisco State U. | 20,069 | 11,896 | 4,959 | 0 | 2,198 | 1,016 |
| 115 | Catholic U. America, The | 19,919 | 15,324 | 33 | 768 | 3,661 | 133 |
| 116 | ID State U. | 19,887 | 11,911 | 208 | 3,085 | 3,966 | 717 |
| 117 | U. PR Mayaguez Campus | 19,813 | 11,164 | 2,498 | 554 | 2,837 | 2,760 |
| 118 | U. MA Dartmouth | 19,538 | 11,456 | 2,210 | 762 | 4,855 | 255 |
| 119 | Kent State U. all campuses | 19,001 | 9,801 | 921 | 1,332 | 6,947 | 0 |
| 120 | U. of the VI | 17,842 | 12,561 | 2,658 | 2,623 | 0 | 0 |
| 121 | Western MI U. | 17,182 | 10,254 | 1,242 | 2,265 | 2,169 | 1,252 |
| 122 | U. NC Wilmington | 17,064 | 11,362 | 1,207 | 252 | 4,243 | 0 |
| 123 | Clarkson U. | 16,976 | 7,587 | 2,566 | 2,853 | 3,970 | 0 |
| 124 | Air Force Institute of Technology | 16,801 | 6,681 | 20 | 26 | 10,074 | 0 |
| 125 | Northern IL U. | 16,710 | 13,034 | 74 | 427 | 3,175 | 0 |
| 126 | FL A&M U. | 16,541 | 14,502 | 962 | 1,077 | 0 | 0 |
| 127 | Cleveland State U. | 15,948 | 5,097 | 4,269 | 392 | 4,739 | 1,451 |
| 128 | U. Tulsa | 14,735 | 7,851 | 982 | 5,472 | 430 | 0 |
| 129 | CA State Polytechnic U. San Luis Obispo | 14,517 | 5,391 | 3,898 | 1,192 | 1,541 | 2,495 |
| 130 | U.S. Air Force Academy | 14,504 | 14,301 | 0 | 203 | 0 | 0 |
| 131 | SD School of Mines and Technology | 14,480 | 11,232 | 874 | 233 | 1,280 | 861 |
| 132 | Tuskegee U. | 14,329 | 11,033 | 0 | 0 | 0 | 3,296 |
| 133 | Polytechnic U. | 14,216 | 6,329 | 1,535 | 3,066 | 2,286 | 1,000 |
| 134 | U. North TX | 14,207 | 7,192 | 41 | 655 | 5,064 | 1,255 |
| 135 | LA Tech U. | 14,166 | 4,151 | 1,050 | 433 | 8,433 | 99 |
| 136 | CA State U. Long Beach | 13,867 | 11,856 | 527 | 656 | 351 | 477 |
| 137 | TX A&M U. Kingsville | 13,794 | 5,067 | 1,066 | 199 | 6,767 | 695 |
| 138 | AL A&M U. | 13,672 | 8,467 | 1,785 | 38 | 2,070 | 1,312 |
| 139 | Worcester Polytechnic Institute | 13,409 | 9,545 | 56 | 1,054 | 2,429 | 325 |
| 140 | Southern Methodist U. | 13,381 | 10,304 | 126 | 300 | 1,918 | 733 |
| 141 | Teachers C. Columbia U. | 12,585 | 7,655 | 0 | 0 | 0 | 4,930 |
| 142 | TN State U. | 12,475 | 8,475 | 30 | 85 | 3,885 | 0 |
| 143 | CA State U. Northridge | 12,412 | 7,339 | 2,971 | 90 | 1,774 | 238 |
| 144 | TN Technological U. | 12,226 | 6,076 | 4,266 | 249 | 1,524 | 111 |
| 145 | Prairie View A&M U. | 12,019 | 9,217 | 1,815 | 108 | 879 | 0 |
| 146 | TX A&M U. Corpus Christi | 11,933 | 6,609 | 2,908 | 86 | 260 | 2,070 |

Appendix E: Science and Engineering R&D Expenditures at all Universities and Colleges Without a Medical School, Ranked by all R&D Expenditures, by Source of Funds: FY 2007

(Dollars in Thousands)

| Rank | Institution | All R&D expenditures | Federal government | State and local government | Industry | Institution funds | All other sources |
|------|-------------------------------------|----------------------|--------------------|----------------------------|----------|-------------------|-------------------|
| 147 | Morgan State U. | 11,257 | 9,992 | 631 | 313 | 301 | 20 |
| 148 | Boise State U. | 10,947 | 9,924 | 252 | 689 | 82 | 0 |
| 149 | U. CA, Merced | 10,945 | 3,119 | 4,306 | 165 | 2,473 | 882 |
| 150 | U. MO-St. Louis | 10,907 | 4,240 | 60 | 151 | 6,193 | 263 |
| 151 | Villanova U. | 10,473 | 9,077 | 661 | 735 | 0 | 0 |
| 152 | Western KY U. | 10,402 | 8,225 | 644 | 977 | 556 | 0 |
| 153 | CA State U. Los Angeles | 10,053 | 9,819 | 90 | 25 | 0 | 119 |
| 154 | U. Denver | 9,833 | 7,694 | 29 | 982 | 719 | 409 |
| 155 | Marquette U. | 9,744 | 6,842 | 84 | 332 | 1,533 | 953 |
| 156 | U. AR Little Rock | 9,683 i | 1,140 i | 3,469 i | 1,697 i | 878 i | 2,499 i |
| 157 | Southwest MO State U. | 9,320 | 8,740 | 128 | 184 | 0 | 268 |
| 158 | CUNY Queens C. | 9,186 | 7,238 | 365 | 1,237 | 346 | 0 |
| 159 | Tarleton State U. | 9,151 | 4,852 | 3,475 | 172 | 652 | 0 |
| 160 | Bowling Green State U. all campuses | 9,120 | 6,299 | 65 | 239 | 1,873 | 644 |
| 161 | Alcorn State U. | 9,056 | 7,874 | 1,182 | 0 | 0 | 0 |
| 162 | Baylor U. | 8,951 | 2,829 | 846 | 1,873 | 2,444 | 959 |
| 163 | Oakland U. | 8,872 | 5,386 | 48 | 669 | 2,640 | 129 |
| 164 | Duquesne U. | 8,850 | 3,856 | 107 | 50 | 4,646 | 191 |
| 165 | Clark Atlanta U. | 8,543 | 7,905 | 0 | 0 | 482 | 156 |
| 166 | CA State U. San Bernardino | 8,323 | 3,553 | 2,110 | 1,960 | 700 | 0 |
| 167 | VA State U. | 8,170 | 7,604 | 186 | 0 | 369 | 11 |
| 168 | U.S. Military Academy | 8,167 | 7,043 | 0 | 42 | 932 | 150 |
| 169 | U.S. Naval Academy | 7,973 | 7,575 | 0 | 398 | 0 | 0 |
| 170 | Embry-Riddle Aeronautical U. | 7,930 | 6,419 | 760 | 680 | 0 | 71 |
| 171 | U. HI Hilo | 7,926 | 7,610 | 109 | 143 | 9 | 55 |
| 172 | Ball State U. | 7,913 | 4,541 | 111 | 1,314 | 1,947 | 0 |
| 173 | TX State U. San Marcos | 7,890 | 2,528 | 2,913 | 241 | 1,397 | 811 |
| 174 | Wesleyan U. | 7,878 | 5,094 | 96 | 34 | 2,011 | 643 |
| 175 | New School, The | 7,795 | 5,922 | 62 | 0 | 0 | 1,811 |
| 176 | AR State U. main campus | 7,494 | 4,694 | 1,961 | 157 | 625 | 57 |
| 177 | DE State U. | 7,418 | 6,487 | 354 | 577 | 0 | 0 |
| 178 | U. AK Anchorage all campuses | 7,122 | 4,967 | 588 | 0 | 0 | 1,567 |
| 179 | Humboldt State U. | 7,087 | 2,510 | 1,951 | 485 | 1,202 | 939 |
| 180 | U. GU | 7,059 | 6,867 | 54 | 138 | 0 | 0 |
| 181 | U. Central AR | 7,036 | 2,034 | 1,004 | 2,714 | 452 | 832 |
| 182 | CA State U. Monterey Bay | 7,032 | 3,832 | 2,982 | 0 | 0 | 218 |
| 183 | Wheeling Jesuit U. | 7,005 | 5,974 | 66 | 26 | 0 | 939 |
| 184 | FL Institute of Technology | 6,985 | 5,570 | 271 | 980 | 0 | 164 |
| 185 | Stephen F. Austin State U. | 6,957 | 3,285 | 1,410 | 150 | 1,729 | 383 |
| 186 | Nova Southeastern U. | 6,697 | 3,470 | 1,243 | 0 | 90 | 1,894 |
| 187 | Norfolk State U. | 6,491 | 5,998 | 11 | 0 | 0 | 482 |
| 188 | Western WA U. | 6,371 | 2,910 | 400 | 56 | 2,788 | 217 |
| 189 | U. NC Greensboro | 6,130 | 5,256 | 95 | 243 | 119 | 417 |
| 190 | CA State U. Dominguez Hills | 6,016 | 4,580 | 809 | 137 | 318 | 172 |
| 191 | Fisk U. | 6,000 | 6,000 | 0 | 0 | 0 | 0 |
| 192 | Fordham U. | 5,908 | 2,268 | 273 | 0 | 2,073 | 1,294 |
| 193 | U. AR Pine Bluff | 5,831 | 3,091 | 167 | 16 | 2,557 | 0 |
| 194 | Southern U. and A&M C. all campuses | 5,590 | 4,375 | 1,139 | 0 | 47 | 29 |
| 195 | Lincoln U. (Jefferson City, MO) | 5,573 | 4,169 | 1,404 | 0 | 0 | 0 |

Appendix E: Science and Engineering R&D Expenditures at all Universities and Colleges Without a Medical School, Ranked by all R&D Expenditures, by Source of Funds: FY 2007

(Dollars in Thousands)

| Rank | Institution | All R&D expenditures | Federal government | State and local government | Industry | Institution funds | All other sources |
|------|-------------------------------------|----------------------|--------------------|----------------------------|----------|-------------------|-------------------|
| 196 | MT Tech of the U. MT | 5,537 | 4,445 | 800 | 292 | 0 | 0 |
| 197 | Alfred U. all campuses | 5,474 | 2,002 | 1,431 | 1,222 | 819 | 0 |
| 198 | James Madison U. | 5,455 | 3,809 | 92 | 0 | 570 | 984 |
| 199 | Morehouse C. | 5,445 | 4,743 | 0 | 0 | 83 | 619 |
| 200 | C. Charleston | 5,308 | 4,071 | 56 | 0 | 1,117 | 64 |
| 201 | CA State U. Fresno | 5,297 | 2,477 | 1,332 | 76 | 1,260 | 152 |
| 202 | U. PR Humacao | 5,220 | 4,930 | 120 | 150 | 20 | 0 |
| 203 | U. TX-Pan American | 5,217 | 3,457 | 1,583 | 53 | 35 | 89 |
| 204 | U. NC Asheville | 5,202 | 3,473 | 1,118 | 222 | 79 | 310 |
| 205 | U. DC | 5,165 | 4,002 | 686 | 0 | 470 | 7 |
| 206 | CUNY Brooklyn C. | 4,960 | 4,207 | 0 | 493 | 260 | 0 |
| 207 | Clark U. | 4,899 | 2,734 | 0 | 0 | 1,398 | 767 |
| 208 | CUNY Herbert H. Lehman C. | 4,852 | 3,980 | 1 | 420 | 451 | 0 |
| 209 | U. West FL | 4,840 | 4,017 | 531 | 0 | 0 | 292 |
| 210 | IL State U. | 4,831 | 3,074 | 459 | 433 | 865 | 0 |
| 211 | Rowan U. | 4,772 | 3,102 | 1,194 | 113 | 49 | 314 |
| 212 | U. LA Monroe | 4,674 | 1,194 | 2,869 | 112 | 155 | 344 |
| 213 | West TX A&M U. | 4,638 | 2,558 | 1,447 | 282 | 0 | 351 |
| 214 | Wellesley C. | 4,634 | 3,210 | 186 | 49 | 0 | 1,189 |
| 215 | Central MI U. | 4,512 | 1,257 | 338 | 254 | 2,164 | 499 |
| 216 | Grand Valley State U. | 4,414 | 463 | 401 | 0 | 2,487 | 1,063 |
| 217 | Langston U. | 4,405 | 3,582 | 823 | 0 | 0 | 0 |
| 218 | Xavier U. LA | 4,394 | 4,268 | 109 | 0 | 0 | 17 |
| 219 | CUNY Graduate Ctr. | 4,380 | 2,431 | 413 | 0 | 65 | 1,471 |
| 220 | NC Central U. | 4,337 | 4,337 | 0 | 0 | 0 | 0 |
| 221 | CA State U. Fullerton | 4,311 | 3,792 | 210 | 188 | 121 | 0 |
| 222 | OR Institute of Technology | 4,155 | 1,593 | 2 | 2,560 | 0 | 0 |
| 223 | U. of the Pacific | 4,131 | 908 | 1,446 | 1,777 | 0 | 0 |
| 224 | Williams C. | 3,983 | 1,705 | 0 | 0 | 960 | 1,318 |
| 225 | TX Christian U. | 3,924 | 3,022 | 162 | 647 | 93 | 0 |
| 226 | Bryn Mawr C. | 3,881 | 1,222 | 13 | 7 | 2,639 | 0 |
| 227 | U. North FL | 3,875 | 2,535 | 505 | 108 | 303 | 424 |
| 228 | SC State U. | 3,796 | 2,587 | 33 | 0 | 364 | 812 |
| 229 | Spelman C. | 3,741 | 3,361 | 0 | 380 | 0 | 0 |
| 230 | Milwaukee School of Engineering | 3,740 | 1,133 | 16 | 2,222 | 309 | 60 |
| 231 | Lamar U. | 3,695 | 1,925 | 1,579 | 21 | 22 | 148 |
| 232 | TX Southern U. | 3,688 | 3,651 | 0 | 20 | 0 | 17 |
| 233 | St. Francis U. (Loretto, PA) | 3,677 | 3,677 | 0 | 0 | 0 | 0 |
| 234 | KY State U. | 3,548 | 3,451 | 85 | 12 | 0 | 0 |
| 235 | Gallaudet U. | 3,520 | 3,460 | 60 | 0 | 0 | 0 |
| 236 | CA State U. East Bay | 3,509 | 1,652 | 732 | 278 | 265 | 582 |
| 237 | Smith C. | 3,498 | 2,858 | 28 | 4 | 254 | 354 |
| 238 | CUNY C. Staten Island | 3,494 | 1,256 | 1,561 | 471 | 206 | 0 |
| 239 | FL Gulf Coast U. | 3,479 | 2,386 | 479 | 0 | 20 | 594 |
| 240 | U. Northern IA | 3,455 | 1,093 | 1,333 | 0 | 956 | 73 |
| 241 | U. WI La Crosse | 3,414 | 2,147 | 372 | 346 | 348 | 201 |
| 242 | U. MD Eastern Shore | 3,408 | 3,288 | 12 | 3 | 0 | 105 |
| 243 | Rose-Hulman Institute of Technology | 3,271 | 532 | 30 | 77 | 0 | 2,632 |
| 244 | Albany C. of Pharmacy | 3,248 | 250 | 1,161 | 1,726 | 111 | 0 |
| 245 | Mt. Holyoke C. | 3,127 | 1,989 | 0 | 0 | 129 | 1,009 |

Appendix E

Appendix E: Science and Engineering R&D Expenditures at all Universities and Colleges Without a Medical School, Ranked by all R&D Expenditures, by Source of Funds: FY 2007

(Dollars in Thousands)

| Rank | Institution | All R&D expenditures | Federal government | State and local government | Industry | Institution funds | All other sources |
|------|---|----------------------|--------------------|----------------------------|----------|-------------------|-------------------|
| 246 | Claremont Graduate U. | 3,121 | 986 | 60 | 25 | 501 | 1,549 |
| 247 | Pomona C. | 3,108 | 1,226 | 0 | 0 | 1,808 | 74 |
| 248 | U. WI Stevens Point | 3,077 | 1,112 | 192 | 39 | 649 | 1,085 |
| 249 | Sul Ross State U. | 3,056 | 1,632 | 394 | 0 | 350 | 680 |
| 250 | Eastern MI U. | 3,027 | 1,719 | 139 | 434 | 485 | 250 |
| 251 | Long Island U. all campuses | 2,969 i | 2,102 i | 200 i | 343 i | 221 i | 103 i |
| 252 | Black Hills State U. | 2,935 | 2,409 | 353 | 19 | 34 | 120 |
| 253 | St. Joseph's U. | 2,930 | 2,403 | 35 | 0 | 140 | 352 |
| 254 | Amherst C. | 2,926 | 1,100 | 0 | 43 | 1,118 | 665 |
| 255 | Appalachian State U. | 2,912 | 2,059 | 113 | 144 | 173 | 423 |
| 256 | Dillard U. | 2,846 | 1,959 | 504 | 0 | 383 | 0 |
| 257 | DePaul U. | 2,839 | 2,284 | 53 | 46 | 194 | 262 |
| 258 | CA State U. Chico | 2,814 i | 1,083 i | 1,489 i | 115 i | 0 i | 127 i |
| 259 | WV State U. | 2,765 | 1,795 | 954 | 16 | 0 | 0 |
| 260 | Barnard C. | 2,764 | 2,511 | 0 | 0 | 46 | 207 |
| 261 | La Salle U. | 2,758 | 2,598 | 4 | 0 | 131 | 25 |
| 262 | Harvey Mudd C. | 2,739 | 1,231 | 0 | 325 | 532 | 651 |
| 263 | American U. | 2,713 | 1,800 | 0 | 913 | 0 | 0 |
| 264 | NY Institute of Technology all campuses | 2,708 | 865 | 462 | 330 | 1,051 | 0 |
| 265 | Seton Hall U. | 2,685 | 1,551 | 0 | 254 | 0 | 880 |
| 266 | St. Cloud State U. | 2,656 | 885 | 166 | 822 | 783 | 0 |
| 267 | Ft. Valley State U. | 2,610 | 2,610 | 0 | 0 | 0 | 0 |
| 268 | Hope C. | 2,603 | 1,432 | 0 | 0 | 305 | 866 |
| 269 | Western Carolina U. | 2,602 | 1,435 | 541 | 0 | 508 | 118 |
| 270 | Murray State U. | 2,555 | 642 | 662 | 149 | 1,102 | 0 |
| 271 | CUNY York C. | 2,550 | 2,468 | 0 | 25 | 57 | 0 |
| 272 | Pittsburg State U. | 2,533 | 1,258 | 327 | 843 | 0 | 105 |
| 273 | U. WI Superior | 2,501 | 2,068 | 0 | 43 | 197 | 193 |
| 274 | Sam Houston State U. | 2,500 | 1,923 | 367 | 22 | 159 | 29 |
| 275 | CA State Polytechnic U. Pomona | 2,466 | 2,466 | 0 | 0 | 0 | 0 |
| 276 | Arcadia U. | 2,450 | 426 | 327 | 1,697 | 0 | 0 |
| 277 | Central WA U. | 2,431 | 1,909 | 56 | 77 | 241 | 148 |
| 278 | Midwestern U. (Chicago, IL) | 2,358 | 801 | 68 | 244 | 1,195 | 50 |
| 279 | Macalester C. | 2,349 | 483 | 0 | 0 | 1,561 | 305 |
| 280 | Central State U. | 2,320 | 2,263 | 41 | 16 | 0 | 0 |
| 281 | Savannah State U. | 2,301 | 2,257 | 44 | 0 | 0 | 0 |
| 282 | CUNY John Jay C. of Criminal Justice | 2,259 | 1,509 | 61 | 0 | 65 | 624 |
| 283 | SUNY C. of Optometry | 2,231 | 2,164 | 0 | 26 | 11 | 30 |
| 284 | Colgate U. | 2,217 | 1,283 | 0 | 0 | 752 | 182 |
| 285 | Kettering U. | 2,209 | 1,583 | 26 | 509 | 0 | 91 |
| 286 | Bowdoin C. | 2,186 | 1,402 | 0 | 442 | 342 | 0 |
| 287 | U. New England | 2,154 | 978 | 364 | 0 | 0 | 812 |
| 288 | Fairfield U. | 2,148 | 182 | 40 | 136 | 1,790 | 0 |
| 289 | Eastern WA U. | 2,136 | 384 | 1,391 | 0 | 125 | 236 |
| 290 | Middle TN State U. | 2,135 | 1,011 | 102 | 86 | 813 | 123 |
| 291 | Chicago State U. | 2,124 | 1,993 | 0 | 0 | 131 | 0 |
| 292 | Union C. (Schenectady, NY) | 2,086 | 647 | 203 | 790 | 431 | 15 |
| 293 | Winston-Salem State U. | 2,086 i | 2,086 i | 0 i | 0 i | 0 i | 0 i |
| 294 | Calvin C. | 2,063 | 600 | 98 | 129 | 1,152 | 84 |

Appendix E: Science and Engineering R&D Expenditures at all Universities and Colleges Without a Medical School, Ranked by all R&D Expenditures, by Source of Funds: FY 2007

(Dollars in Thousands)

| Rank | Institution | All R&D expenditures | Federal government | State and local government | Industry | Institution funds | All other sources |
|------|---------------------------|----------------------|--------------------|----------------------------|----------|-------------------|-------------------|
| 295 | TX Woman's U. | 2,047 | 755 | 591 | 11 | 521 | 169 |
| 296 | Lawrence Technological U. | 2,001 | 1,546 | 257 | 198 | 0 | 0 |
| 297 | Franklin & Marshall C. | 1,993 | 909 | 219 | 0 | 586 | 279 |
| 298 | Bowie State U. | 1,960 | 1,960 | 0 | 0 | 0 | 0 |
| 299 | U. Richmond | 1,958 | 1,328 | 0 | 538 | 85 | 7 |
| 300 | U. Hartford | 1,923 | 1,059 | 368 | 125 | 288 | 83 |

e = estimated; data were not provided by institution; prior-year data were used or current-year estimates were reported. i = imputed.

NOTES: The source for medical schools is the list of accredited M.D.-granting U.S. medical schools approved by the Association of American Medical Colleges. Tied institutions are ranked alphabetically. Table shows top 300 institutions.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix F: Total and Federally Financed R&D Expenditures in the Computer Sciences at Universities and Colleges, Ranked by FY 2007 Total for the First 100 Institutions: FY 2004–07

| | | (Dollars in Thousands) | | | | | | | |
|------|---|------------------------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|
| Rank | Institution | Total | | | | Federally financed | | | |
| | | 2004 | 2005 | 2006 | 2007 | 2004 | 2005 | 2006 | 2007 |
| | All institutions | 1,404,139 | 1,405,693 | 1,437,863 | 1,416,852 | 1,025,138 | 1,022,274 | 1,017,103 | 1,013,649 |
| 1 | Carnegie Mellon U. | 100,324 | 106,527 | 117,865 | 99,279 | 90,589 | 97,313 | 109,615 | 89,678 |
| 2 | U. Southern CA | 85,367 | 88,861 | 93,573 | 78,502 | 80,199 | 82,915 | 86,580 | 72,227 |
| 3 | Johns Hopkins U., The ^a | 73,123 | 69,653 | 70,268 | 76,125 | 72,265 | 68,146 | 69,254 | 75,277 |
| 4 | U. IL Urbana-Champaign | 113,320 | 104,792 | 81,675 | 73,848 | 75,934 | 78,081 | 55,422 | 50,005 |
| 5 | U. CA, San Diego | 85,259 | 65,271 | 64,466 | 55,791 | 65,816 | 44,146 | 43,245 | 36,886 |
| 6 | GA Institute of Technology all campuses | 54,756 | 54,788 | 47,560 | 52,455 | 39,462 | 39,080 | 30,541 | 32,105 |
| 7 | MA Institute of Technology | 44,543 | 44,693 | 49,500 | 45,762 | 28,050 | 30,628 | 33,158 | 30,102 |
| 8 | PA State U. all campuses | 31,575 | 28,576 | 32,371 | 41,862 | 25,968 | 21,739 | 24,196 | 31,582 |
| 9 | U. TX Austin | 29,259 | 39,405 | 41,897 | 37,688 | 25,778 | 31,461 | 33,842 | 34,545 |
| 10 | U. HI Manoa | 18,143 | 18,922 | 21,252 | 34,176 | 18,110 | 18,767 | 21,057 | 33,735 |
| 11 | U. MD College Park | 27,990 | 29,641 | 37,605 | 33,720 | 16,293 | 17,715 | 21,554 | 19,385 |
| 12 | OH State U. all campuses | 23,397 | 35,998 | 33,693 | 29,255 | 6,523 | 12,778 | 14,854 | 12,349 |
| 13 | Cornell U. all campuses | 27,124 | 27,601 | 28,081 | 23,304 | 15,722 | 16,403 | 16,418 | 14,468 |
| 14 | U. Chicago | 8,478 | 10,879 | 18,144 | 22,037 | 8,403 | 10,841 | 17,490 | 21,334 |
| 15 | OR Health & Science U. | 17,805 | 18,630 | 16,702 | 20,850 | 16,007 | 16,063 | 13,687 | 17,324 |
| 16 | Stanford U. | 18,579 | 19,610 | 21,922 | 19,959 | 16,413 | 17,397 | 18,647 | 17,432 |
| 17 | U. MA Amherst | 16,312 | 18,160 | 17,404 | 17,660 | 10,495 | 9,841 | 8,523 | 9,084 |
| 18 | U. UT | 17,098 | 16,457 | 15,020 | 16,273 | 10,704 | 9,973 | 11,171 | 9,948 |
| 19 | U. CA, Los Angeles | 16,433 | 15,734 | 15,992 | 16,005 | 12,717 | 11,740 | 12,510 | 11,858 |
| 20 | U. MN all campuses | 13,655 | 13,987 | 16,060 | 15,951 | 10,269 | 9,501 | 10,190 | 9,704 |
| 21 | U. WI Madison | 13,457 | 14,454 | 14,624 | 14,827 | 10,607 | 11,791 | 11,600 | 10,830 |
| 22 | U. IL Chicago | 9,144 | 12,999 | 12,594 | 13,067 | 5,875 | 6,344 | 4,786 | 4,503 |
| 23 | U. CA, Santa Barbara | 11,893 | 10,537 | 10,671 | 11,821 | 8,887 | 8,664 | 8,345 | 8,470 |
| 24 | U. NC Chapel Hill | 8,555 | 11,214 | 11,764 | 11,422 | 5,927 | 8,378 | 9,454 | 8,944 |
| 25 | IN U. all campuses | 12,596 | 8,370 | 12,397 | 10,921 | 6,955 | 4,749 | 6,545 | 4,799 |
| 26 | U. CA, Irvine | 12,234 | 11,506 | 11,699 | 10,787 | 6,495 | 6,728 | 6,505 | 6,630 |
| 27 | U. AL Huntsville, The | 8,420 | 8,079 | 8,615 | 10,742 | 7,249 | 6,840 | 7,335 | 7,790 |
| 28 | VA Polytechnic Institute and State U. | 14,858 | 9,005 | 10,032 | 10,662 | 2,601 | 3,003 | 3,691 | 3,610 |
| 29 | Purdue U. all campuses | 16,642 | 9,523 | 8,232 | 10,597 | 6,536 | 5,449 | 4,732 | 6,233 |
| 30 | CA Institute of Technology | 12,177 | 12,199 | 9,136 | 10,492 | 12,177 | 12,157 | 8,904 | 9,552 |
| 31 | AZ State U. | 5,228 | 5,877 | 10,409 | 10,076 | 2,970 | 3,149 | 3,782 | 4,350 |
| 32 | Brown U. | 7,038 | 7,568 | 8,839 | 9,841 | 4,636 | 4,683 | 5,313 | 5,622 |
| 33 | Princeton U. | 8,226 | 9,199 | 9,779 | 9,771 | 4,706 | 5,629 | 6,644 | 6,404 |
| 34 | U. LA Lafayette | 5,091 | 7,967 | 6,037 | 9,496 | 543 | 402 | 552 | 1,006 |
| 35 | Columbia U. in the City of NY | 9,443 | 9,613 | 9,174 | 9,331 | 8,879 | 8,476 | 8,085 | 8,114 |
| 36 | FL State U. | 8,087 | 11,675 | 8,565 | 9,206 | 4,838 | 4,892 | 4,523 | 5,156 |
| 37 | MS State U. | 10,168 | 7,313 | 8,824 | 8,664 | 4,377 | 4,000 | 5,688 | 5,789 |
| 38 | U. TN all campuses | 12,736 | 9,386 | 9,256 | 8,662 | 6,930 | 4,911 | 6,564 | 6,098 |
| 39 | SUNY Buffalo all campuses | 8,933 | 9,214 | 9,657 | 8,522 | 5,104 | 4,881 | 5,128 | 3,726 |
| 40 | U. NE all campuses | 6,300 | 7,726 | 7,460 | 8,512 | 3,801 | 4,784 | 4,357 | 5,040 |
| 41 | U. CO all campuses | 7,289 | 7,295 | 7,641 | 8,497 | 6,475 | 6,485 | 6,612 | 6,775 |
| 42 | Drexel U. | 1,396 | 2,027 | 6,763 | 8,034 | 1,056 | 1,684 | 5,040 | 6,190 |
| 43 | U. AL, The | 2,743 | 4,018 | 6,467 | 7,682 | 1,024 | 1,910 | 3,685 | 6,130 |
| 44 | Naval Postgraduate School | 12,667 i | 5,170 | 3,573 | 7,600 | 11,717 i | 4,913 | 3,543 | 7,482 |
| 45 | Syracuse U. all campuses | 6,037 | 8,247 | 3,439 | 7,587 | 3,723 | 4,559 | 2,798 | 3,878 |
| 46 | TX A&M U. | 7,204 | 8,070 | 6,574 | 7,560 | 3,658 | 3,924 | 3,840 | 4,025 |

Appendix F: Total and Federally Financed R&D Expenditures in the Computer Sciences at Universities and Colleges, Ranked by FY 2007 Total for the First 100 Institutions: FY 2004–07

(Dollars in Thousands)

| Rank | Institution | Total | | | | Federally financed | | | |
|------|---------------------------------------|--------|--------|--------|---------|--------------------|-------|-------|---------|
| | | 2004 | 2005 | 2006 | 2007 | 2004 | 2005 | 2006 | 2007 |
| 47 | Rice U. | 9,202 | 8,490 | 9,732 | 7,383 | 8,126 | 7,928 | 8,690 | 6,461 |
| 48 | Rutgers, The State U. NJ all campuses | 8,378 | 7,600 | 8,814 | 7,329 | 2,946 | 3,412 | 4,732 | 3,721 |
| 49 | U. PA | 8,120 | 8,203 | 7,166 | 7,202 | 6,096 | 5,739 | 5,227 | 5,602 |
| 50 | U. TX Dallas | 3,023 | 8,340 | 6,631 | 7,020 | 1,761 | 3,478 | 2,613 | 2,753 |
| 51 | Washington U. St. Louis | 5,432 | 7,154 | 7,262 | 6,993 | 3,897 | 3,491 | 3,600 | 3,683 |
| 52 | Wright State U. all campuses | 5,096 | 4,524 | 6,499 | 6,990 | 2,339 | 1,592 | 1,480 | 1,237 |
| 53 | U. MI all campuses | 9,840 | 5,888 | 7,190 | 6,946 | 4,041 | 4,231 | 4,707 | 4,828 |
| 54 | George Mason U. | 4,418 | 5,977 | 5,791 | 6,829 | 4,161 | 5,874 | 4,484 | 6,061 |
| 55 | U. CA, Davis | 3,575 | 4,921 | 7,795 | 6,743 | 2,264 | 3,662 | 4,135 | 4,218 |
| 56 | U. VA all campuses | 7,236 | 6,940 | 6,151 | 6,466 | 6,472 | 6,180 | 5,643 | 5,896 |
| 57 | SUNY Stony Brook all campuses | 6,101 | 4,695 | 8,366 | 6,423 | 3,852 | 3,242 | 3,103 | 3,704 |
| 58 | U. AK Fairbanks all campuses | 12,616 | 10,245 | 6,216 | 6,176 i | 10,354 | 8,674 | 4,432 | 4,488 i |
| 59 | U. Houston | 4,453 | 5,893 | 5,441 | 6,066 | 2,444 | 2,761 | 2,695 | 3,942 |
| 60 | NJ Institute of Technology | 3,924 | 3,757 | 4,944 | 6,045 | 1,041 | 940 | 1,782 | 2,053 |
| 61 | Rockefeller U. | 4,270 | 4,459 | 4,968 | 5,942 | 40 | 0 | 0 | 0 |
| 62 | FL International U. | 3,750 | 4,525 | 4,201 | 5,788 | 2,828 | 3,030 | 3,132 | 4,155 |
| 63 | U. NC Charlotte | 3,316 | 4,051 | 4,154 | 5,753 | 3,027 | 2,106 | 1,868 | 2,380 |
| 64 | New School, The | 1,269 | 2,994 | 5,026 | 5,692 | 460 | 2,536 | 4,547 | 5,690 |
| 65 | NY U. | 7,993 | 6,461 | 5,175 | 5,483 | 6,342 | 5,664 | 4,156 | 4,090 |
| 66 | Dartmouth C. | 4,195 | 3,862 | 4,821 | 5,243 | 2,727 | 2,480 | 3,071 | 3,718 |
| 67 | IA State U. | 5,721 | 5,818 | 7,508 | 5,115 | 2,010 | 2,350 | 3,223 | 3,131 |
| 68 | NC State U. | 4,412 | 4,428 | 4,907 | 5,072 | 3,234 | 3,543 | 3,888 | 3,445 |
| 69 | U. Pittsburgh all campuses | 3,237 | 4,013 | 4,688 | 4,608 | 2,828 | 3,084 | 3,743 | 3,883 |
| 70 | Jackson State U. | 3,180 | 3,698 | 2,939 | 4,409 | 2,895 | 3,140 | 2,364 | 3,703 |
| 71 | U. FL | 3,250 | 4,498 | 5,479 | 4,108 | 2,818 | 2,985 | 3,655 | 2,876 |
| 72 | Duke U. | 4,696 | 3,678 | 3,927 | 3,786 | 4,276 | 3,380 | 3,122 | 2,861 |
| 73 | Clemson U. | 2,078 | 2,260 | 10,226 | 3,730 | 703 | 710 | 540 | 545 |
| 74 | U. AZ | 5,585 | 7,904 | 5,971 | 3,687 | 4,516 | 5,640 | 3,545 | 2,384 |
| 75 | U. MD Baltimore County | 5,080 | 588 | 1,345 | 3,684 | 3,147 | 489 | 1,015 | 2,848 |
| 76 | Yale U. | 5,307 | 4,766 | 4,940 | 3,621 | 4,193 | 3,857 | 4,059 | 3,145 |
| 77 | Rensselaer Polytechnic Institute | 1,938 | 2,314 | 3,079 | 3,606 | 1,246 | 1,929 | 2,490 | 2,996 |
| 78 | U. Memphis, The | 1,769 | 1,566 | 2,977 | 3,561 | 0 | 0 | 759 | 953 |
| 79 | LA State U. all campuses | 3,163 | 2,939 | 2,895 | 3,548 | 557 | 976 | 1,144 | 1,419 |
| 80 | U. NM main campus | 3,404 | 3,889 | 3,798 | 3,525 | 3,189 | 3,496 | 3,484 | 3,265 |
| 81 | MI State U. | 4,292 | 4,062 | 3,921 | 3,477 | 2,307 | 2,022 | 2,151 | 1,716 |
| 82 | U. TX San Antonio | 2,091 | 3,299 | 3,189 | 3,466 | 1,955 | 3,171 | 2,985 | 3,185 |
| 83 | Villanova U. | 305 i | 345 i | 385 i | 3,457 | 218 i | 250 i | 280 i | 3,438 |
| 84 | OR State U. | 2,309 | 2,687 | 3,664 | 3,128 | 1,851 | 2,386 | 3,387 | 2,794 |
| 85 | U. CA, Santa Cruz | 2,296 | 1,890 | 2,285 | 3,054 | 1,589 | 1,376 | 1,494 | 1,252 |
| 86 | U. GA | 2,957 | 3,045 | 3,406 | 3,029 | 635 | 684 | 763 | 779 |
| 87 | U. Tulsa | 3,694 | 3,439 | 3,369 | 2,956 | 3,525 | 3,270 | 2,997 | 2,825 |
| 88 | U. KY all campuses | 4,153 | 3,801 | 3,354 | 2,942 | 2,573 | 2,102 | 1,688 | 1,397 |
| 89 | U. OR | 3,719 | 2,730 | 3,341 | 2,829 | 3,592 | 2,576 | 3,105 | 2,576 |
| 90 | U. ME | 1,553 | 1,977 | 1,677 | 2,753 | 518 | 256 | 166 | 101 |
| 91 | U. CA, Riverside | 2,982 | 2,778 | 2,532 | 2,681 | 2,401 | 1,641 | 1,340 | 1,621 |
| 92 | SUNY Binghamton | 940 | 1,046 | 1,320 | 2,662 | 316 | 383 | 482 | 1,201 |

Appendix F: Total and Federally Financed R&D Expenditures in the Computer Sciences at Universities and Colleges, Ranked by FY 2007 Total for the First 100 Institutions: FY 2004–07

(Dollars in Thousands)

| Rank | Institution | Total | | | | Federally financed | | | |
|------|-------------------------------|---------|-------|-------|-------|--------------------|-------|-------|-------|
| | | 2004 | 2005 | 2006 | 2007 | 2004 | 2005 | 2006 | 2007 |
| 93 | U. CT all campuses | 2,939 | 3,326 | 3,662 | 2,592 | 2,057 | 2,427 | 1,616 | 1,645 |
| 94 | Northeastern U. | 2,053 | 2,456 | 2,089 | 2,551 | 1,428 | 1,546 | 1,196 | 1,639 |
| 95 | U. of Notre Dame | 2,307 | 2,797 | 3,346 | 2,466 | 2,170 | 2,700 | 3,172 | 2,368 |
| 96 | Polytechnic U. | 1,951 | 2,525 | 2,409 | 2,410 | 1,078 | 1,900 | 1,150 | 1,892 |
| 97 | Portland State U. | 1,544 e | 2,587 | 3,519 | 2,407 | 1,132 e | 2,011 | 2,790 | 1,930 |
| 98 | U. Rochester | 3,560 | 3,152 | 2,714 | 2,405 | 3,266 | 2,911 | 2,259 | 1,947 |
| 99 | U. DE | 2,034 | 1,792 | 1,790 | 2,360 | 1,699 | 1,510 | 1,564 | 1,862 |
| 100 | U. CA Office of the President | 2,164 | 2,174 | 2,243 | 2,294 | 0 | 0 | 0 | 0 |

e = estimated; data were not provided by institution; prior-year data were used or current-year estimates were reported. i = imputed. ne = not eligible; institution did not meet the criteria for inclusion.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$73,477 in total and \$72,985 in federally financed R&D expenditures in the computer sciences in FY 2007.

NOTES: Institutions reporting zero expenditures in the ranked total for FY 2007 are not included in this table. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix G. Total and Federally Financed R&D Expenditures in Engineering at Universities and Colleges, Ranked by FY 2007 total for the First 100 Institutions: FY 2004–07

(Dollars in Thousands)

| Rank | Institution | Total | | | | Federally financed | | | |
|------|---|-----------|-----------|-----------|-----------|--------------------|-----------|-----------|-----------|
| | | 2004 | 2005 | 2006 | 2007 | 2004 | 2005 | 2006 | 2007 |
| | All institutions | 6,314,921 | 6,744,620 | 7,091,999 | 7,516,890 | 3,908,367 | 4,130,905 | 4,305,069 | 4,461,928 |
| 1 | Johns Hopkins U., The ^a | 417,139 | 430,954 | 467,230 | 535,222 | 410,730 | 418,846 | 444,407 | 518,939 |
| 2 | GA Institute of Technology all campuses | 275,551 | 285,572 | 294,466 | 309,986 | 159,978 | 167,523 | 180,755 | 180,240 |
| 3 | PA State U. all campuses | 209,900 | 221,800 | 235,614 | 235,341 | 137,769 | 142,985 | 149,236 | 150,402 |
| 4 | MA Institute of Technology | 200,773 | 206,567 | 220,043 | 216,475 | 144,287 | 149,267 | 164,846 | 159,443 |
| 5 | TX A&M U. | 155,464 | 147,173 | 161,735 | 164,434 | 45,221 | 53,371 | 56,189 | 52,215 |
| 6 | U. MI all campuses | 163,062 | 154,398 | 151,656 | 161,738 | 115,461 | 109,615 | 106,816 | 115,360 |
| 7 | OH State U. all campuses | 110,958 | 131,921 | 134,920 | 160,353 | 48,279 | 49,554 | 44,879 | 46,179 |
| 8 | U. TX Austin | 119,301 | 140,263 | 152,094 | 155,968 | 77,183 | 79,927 | 93,513 | 95,189 |
| 9 | Purdue U. all campuses | 124,849 | 121,148 | 118,109 | 153,503 | 43,453 | 45,171 | 47,901 | 57,411 |
| 10 | U. CA, Berkeley | 151,395 | 152,283 | 147,875 | 152,752 | 70,876 | 65,576 | 56,280 | 53,721 |
| 11 | VA Polytechnic Institute and State U. | 101,767 | 112,951 | 127,349 | 146,402 | 39,074 | 47,963 | 50,769 | 54,422 |
| 12 | Stanford U. | 147,216 | 155,844 | 148,688 | 142,796 | 118,487 | 122,807 | 115,675 | 106,318 |
| 13 | SUNY Albany | 56,484 | 86,371 | 102,548 | 125,065 | 1,133 | 1,571 | 2,412 | 2,668 |
| 14 | U. IL Urbana-Champaign | 120,032 | 125,457 | 125,371 | 124,954 | 69,698 | 76,794 | 71,447 | 73,746 |
| 15 | Clemson U. | 63,864 | 78,417 | 81,309 | 111,828 | 32,098 | 29,959 | 30,347 | 29,777 |
| 16 | U. Rochester | 60,464 | 82,903 | 99,801 | 97,183 | 51,870 | 71,224 | 85,329 | 81,962 |
| 17 | U. FL | 67,195 | 80,555 | 92,963 | 94,295 | 43,388 | 40,621 | 46,049 | 44,468 |
| 18 | U. WI Madison | 94,860 | 92,982 | 92,933 | 93,286 | 61,122 | 59,727 | 59,398 | 56,200 |
| 19 | NC State U. | 80,231 | 81,772 | 96,066 | 91,114 | 34,368 | 34,210 | 45,609 | 40,967 |
| 20 | U. CA, San Diego | 71,132 | 72,963 | 83,480 | 87,877 | 39,227 | 38,580 | 36,983 | 37,232 |
| 21 | U. MD College Park | 82,766 | 88,338 | 88,321 | 87,869 | 49,146 | 56,512 | 54,277 | 54,231 |
| 22 | AZ State U. | 55,648 | 50,515 | 71,479 | 85,658 | 25,921 | 28,693 | 32,424 | 31,214 |
| 23 | U. CA, Santa Barbara | 58,810 | 73,812 | 76,923 | 83,778 | 36,130 | 48,922 | 48,695 | 48,914 |
| 24 | NM State U. main campus | 50,582 | 73,977 | 99,689 | 81,705 | 48,757 | 59,959 | 73,156 | 64,294 |
| 25 | U. WA | 70,034 | 71,696 | 75,361 | 81,085 | 59,124 | 60,275 | 59,319 | 60,997 |
| 26 | Cornell U. all campuses | 69,046 | 75,275 | 77,191 | 77,677 | 41,448 | 45,734 | 47,959 | 48,755 |
| 27 | U. Dayton | 62,763 | 65,671 | 65,789 | 70,309 | 56,043 | 57,837 | 54,635 | 57,400 |
| 28 | Northwestern U. | 55,297 | 62,017 | 64,791 | 66,841 | 39,490 | 43,150 | 44,630 | 43,746 |
| 29 | U. CA, Davis | 50,454 | 56,758 | 59,204 | 65,634 | 20,784 | 23,597 | 22,036 | 24,857 |
| 30 | U. MN all campuses | 52,923 | 51,168 | 55,130 | 63,524 | 29,101 | 25,979 | 26,797 | 31,190 |
| 31 | UT State U. | 77,996 | 54,754 | 55,850 | 59,820 | 73,611 | 51,039 | 51,990 | 52,907 |
| 32 | U. AZ | 53,542 | 56,001 | 80,160 | 58,235 | 31,230 | 26,512 | 26,188 | 24,279 |
| 33 | Carnegie Mellon U. | 55,992 | 54,469 | 56,824 | 56,929 | 46,239 | 44,801 | 44,793 | 45,295 |
| 34 | MS State U. | 55,133 | 41,012 | 47,812 | 56,428 | 26,384 | 25,040 | 30,992 | 38,912 |
| 35 | SUNY Buffalo all campuses | 34,394 | 39,663 | 47,833 | 55,548 | 21,143 | 23,985 | 23,497 | 26,526 |
| 36 | NM Institute of Mining and Technology | 18,023 | 26,299 | 45,194 | 54,510 | 6,435 | 14,345 | 30,084 | 43,690 |
| 37 | U. CA, Los Angeles | 58,147 | 55,335 | 52,088 | 52,600 | 39,648 | 32,944 | 29,380 | 27,739 |
| 38 | IA State U. | 48,298 | 48,153 | 51,726 | 52,354 | 24,710 | 25,002 | 26,903 | 25,501 |
| 39 | Princeton U. | 52,126 | 57,952 | 55,548 | 52,077 | 32,973 | 35,543 | 35,084 | 33,883 |
| 40 | U. Southern CA | 54,854 | 53,863 | 49,447 | 51,100 | 38,444 | 37,387 | 33,722 | 31,819 |
| 41 | NJ Institute of Technology | 42,288 | 40,508 | 39,941 | 50,986 | 18,685 | 21,265 | 19,505 | 23,650 |
| 42 | U. TN all campuses | 41,228 | 49,943 | 48,400 | 50,101 | 17,489 | 21,385 | 26,807 | 27,704 |
| 43 | Rensselaer Polytechnic Institute | 41,931 | 46,969 | 48,242 | 50,061 | 25,602 | 27,801 | 27,750 | 28,455 |
| 44 | U. KY all campuses | 43,706 | 44,346 | 44,236 | 46,912 | 17,861 | 18,548 | 19,908 | 21,032 |
| 45 | CA Institute of Technology | 39,480 | 41,459 | 36,864 | 46,334 | 36,936 | 38,735 | 34,531 | 38,220 |

**Appendix G. Total and Federally Financed R&D Expenditures in Engineering at Universities and Colleges,
Ranked by FY 2007 total for the First 100 Institutions: FY 2004–07**

(Dollars in Thousands)

| Rank | Institution | Total | | | | Federally financed | | | |
|------|--|--------|--------|--------|--------|--------------------|--------|--------|--------|
| | | 2004 | 2005 | 2006 | 2007 | 2004 | 2005 | 2006 | 2007 |
| 46 | U. DE | 36,213 | 37,008 | 39,573 | 43,038 | 27,706 | 27,724 | 31,145 | 34,066 |
| 47 | U. CO all campuses | 35,329 | 35,436 | 36,721 | 42,758 | 28,482 | 27,713 | 29,544 | 31,985 |
| 48 | U. MA Amherst | 23,045 | 25,838 | 40,106 | 42,730 | 8,553 | 9,992 | 17,557 | 17,723 |
| 49 | LA State U. all campuses | 43,376 | 41,303 | 40,026 | 42,437 | 12,723 | 9,180 | 10,630 | 11,344 |
| 50 | Columbia U. in the City of NY | 25,160 | 30,452 | 37,522 | 41,069 | 20,732 | 24,662 | 30,308 | 32,606 |
| 51 | Duke U. | 28,131 | 33,932 | 35,192 | 39,903 | 21,202 | 21,449 | 23,808 | 27,665 |
| 52 | Auburn U. all campuses | 30,387 | 33,685 | 32,797 | 38,587 | 16,544 | 17,668 | 18,192 | 25,799 |
| 53 | Case Western Reserve U. | 40,268 | 42,557 | 40,322 | 37,685 | 25,953 | 22,390 | 25,617 | 25,844 |
| 54 | Vanderbilt U. | 30,986 | 33,207 | 33,424 | 37,124 | 26,132 | 26,736 | 26,887 | 29,865 |
| 55 | U. IA | 32,742 | 31,707 | 34,071 | 36,823 | 13,595 | 12,734 | 13,539 | 17,505 |
| 56 | Drexel U. | 34,660 | 39,569 | 36,733 | 36,660 | 23,693 | 26,609 | 24,716 | 25,009 |
| 57 | SUNY Stony Brook all campuses | 24,882 | 22,114 | 23,488 | 36,611 | 10,431 | 11,206 | 10,343 | 10,663 |
| 58 | U. CA, Santa Cruz | 16,877 | 28,366 | 32,173 | 35,536 | 13,278 | 23,424 | 27,235 | 27,906 |
| 59 | U. Cincinnati all campuses | 26,815 | 26,177 | 26,983 | 35,473 | 13,457 | 13,554 | 12,023 | 16,182 |
| 60 | U. VA all campuses | 34,347 | 34,472 | 35,682 | 35,289 | 24,822 | 27,108 | 29,835 | 29,676 |
| 61 | Wichita State U. | 23,450 | 28,691 | 21,884 | 35,218 | 7,925 | 7,137 | 9,296 | 9,295 |
| 62 | U. NE all campuses | 28,109 | 30,675 | 33,702 | 34,785 | 8,217 | 12,237 | 15,769 | 16,105 |
| 63 | U. AL Huntsville, The | 21,335 | 26,672 | 28,136 | 34,710 | 17,703 | 21,398 | 21,756 | 23,873 |
| 64 | U. South FL | 29,892 | 32,717 | 35,778 | 34,351 | 15,891 | 17,026 | 17,460 | 17,262 |
| 65 | U. CA, Irvine | 28,764 | 33,921 | 35,222 | 33,953 | 13,277 | 14,385 | 14,037 | 13,518 |
| 66 | MI Technological U. | 22,512 | 24,151 | 25,626 | 33,149 | 11,722 | 11,134 | 10,697 | 17,070 |
| 67 | U. UT | 27,831 | 28,886 | 33,209 | 32,890 | 14,945 | 16,713 | 20,441 | 19,283 |
| 68 | MI State U. | 24,928 | 26,366 | 28,519 | 32,816 | 8,908 | 9,945 | 11,287 | 12,666 |
| 69 | FL State U. | 28,942 | 28,956 | 32,761 | 32,704 | 23,049 | 23,583 | 26,979 | 26,896 |
| 70 | U. PA | 25,949 | 27,645 | 32,779 | 31,213 | 17,408 | 17,784 | 20,982 | 20,842 |
| 71 | U. ND all campuses | 22,444 | 21,320 | 27,784 | 31,074 | 15,191 | 13,871 | 17,074 | 20,257 |
| 72 | U. Central FL | 20,256 | 27,224 | 28,886 | 29,071 | 9,809 | 9,456 | 10,955 | 13,370 |
| 73 | Rutgers, The State U. NJ all campuses | 33,838 | 30,604 | 25,245 | 29,011 | 15,125 | 11,756 | 10,479 | 12,967 |
| 74 | WV U. | 28,632 | 26,933 | 25,023 | 28,128 | 18,799 | 18,371 | 17,309 | 17,899 |
| 75 | Rice U. | 17,287 | 17,969 | 22,197 | 28,054 | 13,053 | 14,593 | 16,751 | 22,087 |
| 76 | CO State U. | 21,824 | 24,975 | 25,088 | 27,282 | 14,821 | 14,615 | 17,753 | 19,049 |
| 77 | U. CA, Riverside | 14,082 | 25,713 | 28,721 | 26,716 | 3,353 | 14,951 | 18,279 | 16,795 |
| 78 | Woods Hole Oceanographic Institution | 17,539 | 21,044 | 21,630 | 26,511 | 16,817 | 20,208 | 20,572 | 21,581 |
| 79 | Boston U. | 23,212 | 25,074 | 24,972 | 26,454 | 21,292 | 23,350 | 22,783 | 23,802 |
| 80 | U. MO-Columbia | 20,880 | 22,220 | 15,872 | 25,937 | 6,607 | 6,220 | 7,690 | 9,134 |
| 81 | Lehigh U. | 21,109 | 26,183 | 24,017 | 25,934 | 12,145 | 12,849 | 10,806 | 14,244 |
| 82 | Northeastern U. | 16,137 | 22,529 | 26,894 | 25,833 | 10,259 | 13,775 | 16,776 | 13,714 |
| 83 | U. SC all campuses | 25,786 | 26,308 | 25,085 | 25,084 | 16,066 | 14,545 | 16,498 | 16,453 |
| 84 | Old Dominion U. | 22,681 | 26,428 | 23,991 | 24,343 | 14,270 | 17,191 | 16,591 | 13,636 |
| 85 | U. MO-Rolla | 28,122 | 28,728 | 27,932 | 24,220 | 13,694 | 15,685 | 16,009 | 13,972 |
| 86 | OR State U. | 19,869 | 21,768 | 23,907 | 22,802 | 13,788 | 14,898 | 16,314 | 14,373 |
| 87 | U. NH | 20,920 | 20,983 | 22,967 | 22,783 | 12,768 | 13,436 | 14,648 | 13,836 |
| 88 | WA State U. | 24,556 | 25,876 | 24,591 | 22,757 | 13,445 | 14,341 | 13,476 | 11,143 |
| 89 | Harvard U. | 16,093 | 21,191 | 22,851 | 21,587 | 14,949 | 19,287 | 19,811 | 17,812 |
| 90 | U. AR main campus | 14,543 | 21,418 | 21,676 | 21,388 | 6,562 | 8,658 | 8,004 | 8,418 |
| 91 | U. Pittsburgh all campuses | 17,850 | 20,254 | 21,254 | 20,606 | 13,209 | 15,454 | 14,809 | 14,365 |
| 92 | FL International U. | 4,374 | 5,278 | 17,700 | 20,496 | 3,298 | 3,533 | 14,167 | 14,761 |
| 93 | U. IL Chicago | 18,671 | 18,567 | 19,609 | 20,246 | 9,326 | 10,149 | 10,340 | 10,747 |

Appendix G. Total and Federally Financed R&D Expenditures in Engineering at Universities and Colleges, Ranked by FY 2007 total for the First 100 Institutions: FY 2004–07

(Dollars in Thousands)

| Rank | Institution | Total | | | | Federally financed | | | |
|------|---------------------------------|-----------|---------|--------|----------|--------------------|---------|--------|----------|
| | | 2004 | 2005 | 2006 | 2007 | 2004 | 2005 | 2006 | 2007 |
| 94 | U. OK all campuses | 15,759 | 17,259 | 19,442 | 20,141 | 6,550 | 6,493 | 7,594 | 7,584 |
| 95 | U. TX Arlington | 11,118 | 19,612 | 17,957 | 19,629 | 5,603 | 11,521 | 11,153 | 10,998 |
| 96 | KS State U. | 17,826 | 17,634 | 18,837 | 19,450 | 8,129 | 8,370 | 8,244 | 8,080 |
| 97 | Dartmouth C. | 22,193 | 20,176 | 20,807 | 19,429 | 16,692 | 14,494 | 14,937 | 12,793 |
| 98 | U. TX Dallas | 8,367 | 12,243 | 15,026 | 19,349 | 1,544 | 1,805 | 3,740 | 3,829 |
| 99 | Brown U. | 19,384 | 20,654 | 21,030 | 19,277 | 12,958 | 13,718 | 12,545 | 11,238 |
| 100 | U. AK Fairbanks all campuses | 14,275 | 13,438 | 19,193 | 19,159 i | 7,306 | 9,646 | 14,979 | 15,170 i |
| | All other surveyed institutions | 893,266 0 | 968,267 | 951093 | 967980 | 527,555 0 | 589,894 | 569998 | 585104 |

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

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$488,370 in total and \$477,647 in federally financed R&D expenditures in engineering in FY 2007.

NOTES: Institutions reporting zero expenditures in the ranked total for FY 2007 are not included in this table. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix H: R&D Expenditures in the Environmental Sciences at Universities and Colleges, Ranked by all FY 2007 Environmental Sciences for the First 100 Institutions: FY 2004–07 and by subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2004 | 2005 | 2006 | 2007 | | | | |
|------|---------------------------------------|-----------|-----------|-----------|----------------------------|----------------------|----------------|--------------|-----------------------------|
| | | | | | All environmental sciences | Atmospheric sciences | Earth sciences | Oceanography | Environmental sciences, nec |
| | All institutions | 2,353,444 | 2,553,767 | 2,601,229 | 2,725,120 | 491,958 | 909,627 | 996,203 | 327,332 |
| 1 | U. CA, San Diego | 122,387 | 125,519 | 127,469 | 132,814 | 7,360 | 33,144 | 91,806 | 504 |
| 2 | TX A&M U. | 66,724 | 89,551 | 69,531 | 112,571 | 6,300 | 5,415 | 88,535 | 12,321 |
| 3 | Woods Hole Oceanographic Institution | 96,548 | 96,473 | 100,258 | 110,899 | 0 | 0 | 110,899 | 0 |
| 4 | CO State U. | 71,409 | 82,240 | 84,894 | 94,391 | 32,072 | 62,319 | 0 | 0 |
| 5 | U. WA | 78,845 | 84,864 | 92,110 | 91,765 | 20,936 | 6,792 | 54,463 | 9,574 |
| 6 | U. CO all campuses | 86,142 | 106,955 | 90,831 | 90,889 | 43,445 | 44,938 | 6 | 2,500 |
| 7 | U. AK Fairbanks all campuses | 67,891 | 75,857 | 80,804 | 80,102 i | 49,310 i | 9,417 i | 21,375 i | 0 i |
| 8 | U. WI Madison | 54,127 | 72,681 | 82,589 | 77,397 | 61,100 | 6,140 | 3,258 | 6,899 |
| 9 | U. HI Manoa | 54,891 | 60,485 | 60,612 | 65,677 | 2,675 | 14,242 | 46,455 | 2,305 |
| 10 | U. NH | 45,307 | 48,313 | 55,726 | 55,684 | 14,119 | 16,038 | 25,527 | 0 |
| 11 | PA State U. all campuses | 41,057 | 44,968 | 52,793 | 55,506 | 14,781 | 32,985 | 7,740 | 0 |
| 12 | Columbia U. in the City of NY | 54,163 | 60,939 | 57,799 | 55,503 | 8,200 | 509 | 42,779 | 4,015 |
| 13 | U. Miami | 44,320 | 48,091 | 49,485 | 49,346 | 25,864 | 0 | 20,244 | 3,238 |
| 14 | U. TX Austin | 30,915 | 38,858 | 37,600 | 43,269 | 15 | 33,633 | 7,684 | 1,937 |
| 15 | Johns Hopkins U., The ^a | 38,585 | 42,281 | 40,256 | 42,422 | 8,259 i | 3,180 i | 13,170 i | 17,813 i |
| 16 | U. MD Ctr. for Environmental Science | 39,631 | 41,022 | 40,146 | 40,720 | 0 | 4,754 | 35,966 | 0 |
| 17 | OR State U. | 37,912 | 41,170 | 40,829 | 39,634 | 1,874 | 1,995 | 12,325 | 23,440 |
| 18 | U. IL Urbana-Champaign | 41,152 | 38,638 | 41,592 | 38,715 | 2,841 | 35,129 | 308 | 437 |
| 19 | Desert Research Institute | 26,318 | 29,248 | 35,776 | 38,402 | 14,207 | 24,195 | 0 | 0 |
| 20 | C. of William and Mary all campuses | 32,640 | 31,777 | 34,649 | 34,262 | 0 | 752 | 33,304 | 206 |
| 21 | U. SC all campuses | 20,720 | 20,960 | 32,413 | 33,752 | 0 | 7,237 | 8,512 | 18,003 |
| 22 | LA State U. all campuses | 30,827 | 33,792 | 33,023 | 33,732 | 0 | 7,452 | 20,805 | 5,475 |
| 23 | U. OK all campuses | 29,639 | 32,729 | 33,264 | 33,058 | 23,309 | 9,749 | 0 | 0 |
| 24 | U. South FL | 28,375 | 34,191 | 32,230 | 29,032 | 1,465 | 2,975 | 23,342 | 1,250 |
| 25 | Rutgers, The State U. NJ all campuses | 28,359 | 29,835 | 28,649 | 28,785 | 38 | 1,845 | 14,975 | 11,927 |
| 26 | U. CA, Davis | 26,891 | 26,354 | 26,234 | 28,464 | 1,586 | 4,055 | 5,187 | 17,636 |
| 27 | U. CA, Santa Barbara | 26,527 | 27,685 | 29,108 | 28,111 | 0 | 4,379 | 23,587 | 145 |
| 28 | Harvard U. | 15,690 | 25,250 | 26,616 | 27,733 | 5,182 | 3,523 | 126 | 18,902 |
| 29 | U. MD Baltimore County | 17,943 | 15,900 | 22,118 | 27,373 | 0 | 27,373 | 0 | 0 |
| 30 | U. RI | 25,824 | 23,764 | 26,121 | 26,520 | 0 | 2,093 | 23,802 | 625 |
| 31 | MA Institute of Technology | 28,648 | 27,444 | 27,267 | 26,227 | 6,286 | 9,289 | 7,910 | 2,742 |
| 32 | SUNY Stony Brook all campuses | 21,961 | 22,078 | 22,512 | 24,042 | 0 | 8,172 | 15,870 | 0 |
| 33 | Stanford U. | 17,147 | 25,124 | 19,803 | 23,208 | 0 | 13,625 | 5,622 | 3,961 |
| 34 | FL State U. | 21,459 | 23,976 | 25,531 | 22,816 | 9,490 | 8,328 | 4,998 | 0 |
| 35 | U. CA, Santa Cruz | 18,414 | 18,801 | 20,173 | 22,427 | 0 | 4,428 | 15,870 | 2,129 |
| 36 | U. NC Chapel Hill | 23,761 | 23,272 | 22,258 | 22,030 | 0 | 15,326 | 6,704 | 0 |
| 37 | U. ME | 22,830 | 20,311 | 20,470 | 20,872 | 0 | 7,915 | 12,944 | 13 |
| 38 | U. NV, Las Vegas | 17,432 i | 15,133 | 18,069 | 18,846 | 0 | 18,846 | 0 | 0 |
| 39 | U. Southern CA | 18,687 | 20,274 | 18,225 | 18,778 | 0 | 14,860 | 3,766 | 152 |
| 40 | Princeton U. | 17,067 | 17,771 | 17,909 | 18,373 | 4,514 | 4,141 | 0 | 9,718 |
| 41 | U. CA Office of the President | 7,639 | 11,877 | 14,439 | 16,990 | 0 | 0 | 0 | 16,990 |
| 42 | Naval Postgraduate School | 10,426 i | 10,585 | 14,604 | 16,684 | 8,736 | 0 | 7,948 | 0 |

Appendix H: R&D Expenditures in the Environmental Sciences at Universities and Colleges, Ranked by all FY 2007 Environmental Sciences for the First 100 Institutions: FY 2004–07 and by subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2004 | 2005 | 2006 | 2007 | | | | |
|------|---|---------|--------|--------|----------------------------|----------------------|----------------|--------------|-----------------------------|
| | | | | | All environmental sciences | Atmospheric sciences | Earth sciences | Oceanography | Environmental sciences, nec |
| 43 | San Jose State U. | 11,858 | 14,693 | 17,949 | 16,678 | 346 | 523 | 15,750 | 59 |
| 44 | U. Central FL | 13,747 | 14,866 | 14,513 | 16,494 | 16,494 | 0 | 0 | 0 |
| 45 | CA Institute of Technology | 13,136 | 15,739 | 16,357 | 16,044 | 0 | 16,044 | 0 | 0 |
| 46 | Hampton U. | 24,587 | 87 | 16,791 | 15,945 | 15,723 | 0 | 222 | 0 |
| 47 | GA Institute of Technology all campuses | 15,046 | 14,359 | 16,422 | 15,847 | 11,401 | 4,051 | 126 | 269 |
| 48 | U. Southern MS | 13,336 | 13,806 | 14,362 | 15,147 | 0 | 438 | 14,709 | 0 |
| 49 | U. CA, Riverside | 11,823 | 13,010 | 13,679 | 15,074 | 1,211 | 4,916 | 0 | 8,947 |
| 50 | Duke U. | 11,566 | 12,523 | 13,530 | 14,772 | 0 | 2,620 | 3,893 | 8,259 |
| 51 | NC State U. | 15,594 | 15,976 | 13,223 | 14,700 | 0 | 43 | 3,520 | 11,137 |
| 52 | U. MD College Park | 11,158 | 11,841 | 13,893 | 14,422 | 3,493 | 10,929 | 0 | 0 |
| 53 | U. KS all campuses | 14,438 | 12,224 | 15,204 | 14,235 | 0 | 14,228 | 7 | 0 |
| 54 | U. MD Biotechnology Institute | 10,652 | 11,297 | 12,285 | 14,058 | 0 | 0 | 14,058 | 0 |
| 55 | U. MN all campuses | 11,602 | 11,494 | 14,474 | 13,953 | 0 | 6,387 | 2,706 | 4,860 |
| 56 | AZ State U. | 11,197 | 11,476 | 12,277 | 13,553 | 0 | 13,553 | 0 | 0 |
| 57 | U. GA | 12,891 | 13,694 | 14,521 | 13,491 | 0 | 4,347 | 9,144 | 0 |
| 58 | U. AZ | 11,971 | 11,666 | 11,388 | 13,265 | 2,759 | 10,506 | 0 | 0 |
| 59 | MI Technological U. | 6,820 | 8,399 | 8,238 | 12,428 | 0 | 1,870 | 0 | 10,558 |
| 60 | U. DE | 12,226 | 12,229 | 12,532 | 12,388 | 0 | 871 | 11,517 | 0 |
| 61 | U. MI all campuses | 8,166 | 9,828 | 11,285 | 11,897 | 0 | 11,897 | 0 | 0 |
| 62 | U. AL Huntsville, The | 6,796 | 7,759 | 8,898 | 11,470 | 11,470 | 0 | 0 | 0 |
| 63 | U. WY | 8,076 e | 10,393 | 11,328 | 11,411 | 8,394 | 3,017 | 0 | 0 |
| 64 | U. ND all campuses | 7,147 | 6,510 | 8,745 | 11,128 | 4,199 | 6,459 | 0 | 470 |
| 65 | U. NV, Reno | 8,072 | 9,576 | 10,074 | 10,760 | 0 | 9,772 | 0 | 988 |
| 66 | U. CA, Berkeley | 9,093 | 9,425 | 9,996 | 10,574 | 35 | 10,528 | 0 | 11 |
| 67 | UT State U. | 9,007 | 6,648 | 8,968 | 10,172 | 4,141 | 6,031 | 0 | 0 |
| 68 | U. MA Dartmouth | 8,345 | 9,528 | 9,565 | 10,116 | 0 | 0 | 10,116 | 0 |
| 69 | U. FL | 7,879 | 9,486 | 10,281 | 10,113 | 0 | 5,383 | 4,427 | 303 |
| 70 | U. CA, Los Angeles | 15,396 | 14,038 | 11,098 | 10,083 | 4,333 | 3,464 | 0 | 2,286 |
| 71 | U. NC Wilmington | 5,468 | 8,027 | 7,479 | 10,052 | 0 | 412 | 9,640 | 0 |
| 72 | OH State U. all campuses | 11,398 | 10,399 | 9,336 | 9,896 | 0 | 9,896 | 0 | 0 |
| 73 | George Mason U. | 9,951 | 9,321 | 12,601 | 9,522 | 2,443 | 7,079 | 0 | 0 |
| 74 | MS State U. | 4,815 | 4,659 | 5,017 | 9,150 | 497 | 6,030 | 2,472 | 151 |
| 75 | U. CT all campuses | 8,412 | 9,004 | 8,869 | 8,486 | 0 | 2 | 8,484 | 0 |
| 76 | U. WI Milwaukee | 5,207 | 7,001 | 7,466 | 8,209 | 0 | 630 | 6,506 | 1,073 |
| 77 | Boston C. | 514 e | 6,444 | 7,432 | 8,114 | 0 | 857 | 0 | 7,257 |
| 78 | U. UT | 5,761 | 8,810 | 8,129 | 7,912 | 2,389 | 5,523 | 0 | 0 |
| 79 | VA Polytechnic Institute and State U. | 10,127 | 10,332 | 5,876 | 7,910 | 0 | 7,544 | 0 | 366 |
| 80 | Brown U. | 6,235 | 6,604 | 7,998 | 7,535 | 0 | 6,859 | 0 | 676 |
| 81 | U. MS all campuses | 0 | 0 | 317 | 7,129 | 0 | 2,665 | 4,464 | 0 |
| 82 | IA State U. | 5,768 | 6,429 | 6,422 | 7,051 | 0 | 7,051 | 0 | 0 |
| 83 | WV U. | 7,219 | 7,117 | 7,374 | 6,894 | 0 | 6,894 | 0 | 0 |
| 84 | San Francisco State U. | 2,849 i | 5,388 | 7,607 | 6,892 | 0 | 162 | 6,164 | 566 |
| 85 | CA State U. Monterey Bay | 2,373 | 2,786 | 3,372 | 6,482 | 30 | 2,899 | 1,027 | 2,526 |
| 86 | Cornell U. all campuses | 5,222 | 6,006 | 6,383 | 6,457 | 0 | 5,663 | 421 | 373 |
| 87 | U. Chicago | 4,902 | 5,155 | 4,848 | 6,414 | 0 | 6,414 | 0 | 0 |

Appendix H: R&D Expenditures in the Environmental Sciences at Universities and Colleges, Ranked by all FY 2007 Environmental Sciences for the First 100 Institutions: FY 2004–07 and by subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2004 | 2005 | 2006 | 2007 | | | | |
|------|---------------------------------|-----------|---------|---------|----------------------------|----------------------|----------------|--------------|-----------------------------|
| | | | | | All environmental sciences | Atmospheric sciences | Earth sciences | Oceanography | Environmental sciences, nec |
| 88 | TX Tech U. | 9,682 | 7,423 | 6,454 | 6,331 | 0 | 989 | 0 | 5,342 |
| 89 | TX A&M U. Corpus Christi | 3,035 | 3,950 | 5,511 | 5,996 | 57 | 319 | 4,606 | 1,014 |
| 90 | Purdue U. all campuses | 4,624 | 5,757 | 6,210 | 5,547 | 2,736 | 1,368 | 0 | 1,443 |
| 91 | Washington U. St. Louis | 4,893 | 5,541 | 4,927 | 5,526 | 0 | 5,526 | 0 | 0 |
| 92 | U. CA, Irvine | 6,045 | 5,034 | 5,689 | 5,492 | 0 | 0 | 0 | 5,492 |
| 93 | U. NM main campus | 3,988 | 4,486 | 4,453 | 5,411 | 724 | 4,675 | 0 | 12 |
| 94 | U. TX El Paso | 2,984 | 2,876 | 3,484 | 5,370 | 582 | 3,287 | 0 | 1,501 |
| 95 | U. PR Mayaguez Campus | 4,599 | 5,011 | 4,681 | 5,199 | 0 | 670 | 4,529 | 0 |
| 96 | Old Dominion U. | 3,826 | 4,223 | 4,731 | 5,094 | 0 | 0 | 5,094 | 0 |
| 97 | FL International U. | 16,191 | 19,537 | 5,364 | 5,032 | 4,869 | 39 | 0 | 124 |
| 98 | U. NE all campuses | 5,004 | 4,095 | 4,470 | 5,002 | 600 | 4,359 | 0 | 43 |
| 99 | U. Memphis, The | 4,700 | 8,800 | 4,902 | 4,835 | 0 | 4,835 | 0 | 0 |
| 100 | Boston U. | 3,890 | 4,411 | 4,857 | 4,774 | 0 | 2,212 | 0 | 2,562 |
| | All other surveyed institutions | 254,907 # | 279,535 | 260,309 | 253,367 | 19,068 | 145,703 | 34,789 | 53,807 |

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

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$22,547 in total R&D expenditures in the environmental sciences in FY 2007.

NOTES: Institutions reporting zero expenditures in the ranked total for FY 2007 are not included in this table. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix I. R&D Expenditures in the Life Sciences at Universities and Colleges, Ranked by all FY 2007 Life Sciences for the First 150 Institutions: FY 2004–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2004 | 2005 | 2006 | 2007 | | | | |
|------|---|------------|------------|------------|-------------------|-----------------------|---------------------|------------------|--------------------|
| | | | | | All life sciences | Agricultural sciences | Biological sciences | Medical sciences | Life sciences, nec |
| | All institutions | 25,949,029 | 27,603,367 | 28,802,466 | 29,763,889 | 2,901,631 | 9,217,644 | 16,514,708 | 1,129,906 |
| 1 | U. CA, San Francisco | 698,712 | 728,403 | 770,485 | 820,239 | 0 | 28,606 | 791,633 | 0 |
| 2 | Johns Hopkins U., The ^a | 619,835 | 674,083 | 702,207 | 692,380 | 0 | 192,686 | 470,397 | 29,297 |
| 3 | Duke U. | 427,955 | 528,719 | 553,834 | 669,354 | 0 | 106,088 | 559,803 | 3,463 |
| 4 | U. CA, Los Angeles | 562,755 | 585,436 | 609,514 | 612,248 | 0 | 20,469 | 591,779 | 0 |
| 5 | U. WI Madison | 473,733 | 488,831 | 508,034 | 541,332 | 42,913 | 185,569 | 307,521 | 5,329 |
| 6 | U. PA | 480,121 | 528,225 | 546,624 | 525,729 | 1,014 | 175,535 | 333,479 | 15,701 |
| 7 | Washington U. St. Louis | 443,901 | 477,021 | 490,846 | 515,165 | 0 | 194,937 | 315,077 | 5,151 |
| 8 | U. WA | 481,620 | 485,173 | 541,524 | 513,821 | 13,479 | 85,218 | 405,409 | 9,715 |
| 9 | U. Pittsburgh all campuses | 396,405 | 449,147 | 458,627 | 489,305 | 0 | 17,612 | 459,260 | 12,433 |
| 10 | U. MI all campuses | 441,349 | 492,195 | 481,245 | 480,044 | 9,222 | 118,489 | 275,750 | 76,583 |
| 11 | U. MN all campuses | 382,932 | 403,919 | 434,861 | 455,889 | 72,977 | 81,490 | 291,585 | 9,837 |
| 12 | U. CA, San Diego | 359,714 | 381,402 | 404,236 | 446,301 | 34 | 38,380 | 406,734 | 1,153 |
| 13 | U. CA, Davis | 381,707 | 404,872 | 425,934 | 441,417 | 125,185 | 137,106 | 179,126 | 0 |
| 14 | Baylor C. of Medicine | 476,075 | 458,694 | 462,375 | 438,280 | 0 | 218,881 | 219,399 | 0 |
| 15 | U. TX M. D. Anderson Cancer Ctr. | 317,612 | 344,804 | 402,469 | 434,713 | 0 | 157,664 | 277,049 | 0 |
| 16 | U. FL | 311,513 | 370,708 | 390,097 | 418,136 | 144,699 | 108,994 | 142,676 | 21,767 |
| 17 | Cornell U. all campuses | 356,441 | 376,860 | 411,148 | 409,577 | 85,636 | 86,088 | 237,853 | 0 |
| 18 | Stanford U. | 373,952 | 392,129 | 389,093 | 407,985 | 0 | 21,662 | 386,323 | 0 |
| 19 | OH State U. all campuses | 288,853 | 340,909 | 373,349 | 397,652 | 59,270 | 96,934 | 235,043 | 6,405 |
| 20 | Yale U. | 366,999 | 374,599 | 402,060 | 397,064 | 2,662 | 129,724 | 264,678 | 0 |
| 21 | Columbia U. in the City of NY | 322,159 | 363,922 | 367,877 | 380,740 | 0 | 135,089 | 241,740 | 3,911 |
| 22 | U. NC Chapel Hill | 321,080 | 339,452 | 349,179 | 371,745 | 0 | 180,232 | 167,194 | 24,319 |
| 23 | Emory U. | 298,183 | 319,795 | 330,039 | 362,271 | 0 | 153,488 | 204,846 | 3,937 |
| 24 | Scripps Research Institute, The | 307,910 | 330,170 | 367,375 | 360,511 | 0 | 360,511 | 0 | 0 |
| 25 | U. MD Baltimore | 317,293 | 304,396 | 405,260 | 358,851 | 0 | 53,828 | 287,081 | 17,942 |
| 26 | U. TX Southwestern Medical Ctr. Dallas | 314,403 | 320,800 | 333,237 | 341,090 | 0 | 145,683 | 194,997 | 410 |
| 27 | U. AL Birmingham, The | 288,286 | 297,702 | 312,118 | 333,758 | 0 | 88,108 | 243,376 | 2,274 |
| 28 | U. Cincinnati all campuses | 234,726 | 244,581 | 251,055 | 322,426 | 0 | 91,109 | 220,755 | 10,562 |
| 29 | U. Southern CA | 233,541 | 249,108 | 256,515 | 321,959 | 0 | 16,999 | 294,385 | 10,575 |
| 30 | Vanderbilt U. | 250,014 | 275,664 | 303,452 | 320,632 | 0 | 130,808 | 179,049 | 10,775 |
| 31 | Case Western Reserve U. | 179,087 | 268,303 | 312,695 | 316,777 | 0 | 73,070 | 234,282 | 9,425 |
| 32 | Northwestern U. | 250,795 | 270,379 | 300,157 | 316,703 | 0 | 89,299 | 216,044 | 11,360 |
| 33 | Harvard U. | 351,469 | 324,112 | 312,303 | 314,166 | 0 | 106,007 | 208,078 | 81 |
| 34 | U. CO all campuses | 272,329 | 282,598 | 287,983 | 294,574 | 25 | 60,264 | 221,115 | 13,170 |
| 35 | U. IA | 247,550 | 265,701 | 274,029 | 284,969 | 0 | 59,204 | 186,605 | 39,160 |
| 36 | U. AZ | 255,588 | 278,726 | 253,309 | 275,212 | 70,941 | 88,319 | 114,639 | 1,313 |
| 37 | Mt. Sinai School of Medicine | 212,786 | 225,293 | 273,216 | 269,451 | 0 | 79,439 | 190,012 | 0 |
| 38 | U. IL Chicago | 232,069 | 239,554 | 257,615 | 268,553 | 0 | 72,521 | 183,983 | 12,049 |
| 39 | U. Rochester | 218,269 | 231,559 | 234,547 | 246,393 | 0 | 58,446 | 182,101 | 5,846 |
| 40 | OR Health & Science U. | 204,065 | 226,827 | 236,976 | 244,734 | 0 | 101,710 | 129,121 | 13,903 |
| 41 | LA State U. all campuses | 223,668 | 229,138 | 224,621 | 242,931 | 71,264 | 110,766 | 59,734 | 1,167 |
| 42 | U. KY all campuses | 206,585 | 214,451 | 230,681 | 240,818 | 55,315 | 68,073 | 110,246 | 7,184 |
| 43 | NY U. | 209,064 | 223,974 | 229,797 | 237,400 | 0 | 88,914 | 133,903 | 14,583 |
| 44 | U. of Medicine and Dentistry NJ | 209,134 | 239,778 | 245,771 | 236,834 | 0 | 92,477 | 144,357 | 0 |
| 45 | U. Chicago | 198,802 | 214,274 | 216,635 | 232,868 | 0 | 80,394 | 149,173 | 3,301 |

Appendix I. R&D Expenditures in the Life Sciences at Universities and Colleges, Ranked by all FY 2007 Life Sciences for the First 150 Institutions: FY 2004–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2004 | 2005 | 2006 | 2007 | | | | |
|------|---------------------------------------|---------|---------|---------|-------------------|-----------------------|---------------------|------------------|--------------------|
| | | | | | All life sciences | Agricultural sciences | Biological sciences | Medical sciences | Life sciences, nec |
| 46 | U. GA | 218,663 | 222,793 | 224,426 | 231,955 | 98,200 | 93,005 | 36,435 | 4,315 |
| 47 | U. NE all campuses | 202,657 | 232,085 | 221,599 | 220,180 | 56,917 | 102,465 | 53,251 | 7,547 |
| 48 | MI State U. | 203,707 | 205,932 | 222,066 | 219,429 | 86,662 | 101,268 | 27,754 | 3,745 |
| 49 | Rockefeller U. | 177,963 | 185,329 | 198,779 | 216,284 | 0 | 205,475 | 10,809 | 0 |
| 50 | SUNY Buffalo all campuses | 185,181 | 191,492 | 212,496 | 213,681 | 0 | 56,996 | 148,332 | 8,353 |
| 51 | U. CA, Irvine | 171,927 | 180,436 | 194,827 | 207,120 | 0 | 106,557 | 100,563 | 0 |
| 52 | PA State U. all campuses | 198,726 | 198,841 | 200,986 | 202,986 | 76,713 | 42,988 | 83,285 | 0 |
| 53 | IN U. all campuses | 233,402 | 208,902 | 227,786 | 202,703 | 0 | 77,022 | 118,478 | 7,203 |
| 54 | Yeshiva U. | 183,253 | 193,104 | 189,416 | 192,199 | 0 | 0 | 192,199 | 0 |
| 55 | MA Institute of Technology | 130,170 | 165,968 | 172,631 | 191,916 | 0 | 167,642 | 16,533 | 7,741 |
| 56 | U. TX Health Science Ctr. Houston | 147,328 | 152,631 | 175,154 | 191,724 | 0 | 22,983 | 96,945 | 71,796 |
| 57 | TX A&M U. | 167,704 | 171,899 | 189,069 | 188,462 | 85,810 | 40,690 | 61,962 | 0 |
| 58 | U. South FL | 169,407 | 172,849 | 193,977 | 188,046 | 0 | 14,959 | 172,891 | 196 |
| 59 | Wayne State U. | 182,077 | 178,254 | 177,619 | 187,060 | 0 | 42,918 | 132,442 | 11,700 |
| 60 | Medical U. SC | 163,179 | 177,965 | 175,914 | 184,470 | 0 | 62,519 | 69,722 | 52,229 |
| 61 | Purdue U. all campuses | 163,164 | 165,984 | 175,631 | 182,894 | 106,595 | 42,430 | 24,189 | 9,680 |
| 62 | Wake Forest U. | 130,677 | 181,685 | 178,074 | 181,642 | 0 | 782 | 180,860 | 0 |
| 63 | U. TX Medical Branch | 164,172 | 171,114 | 177,365 | 181,249 | 0 | 81,943 | 99,306 | 0 |
| 64 | U. CA, Berkeley | 178,073 | 183,129 | 180,737 | 174,792 | 65,749 | 54,635 | 54,408 | 0 |
| 65 | U. MO-Columbia | 165,113 | 166,138 | 169,710 | 169,206 | 53,669 | 53,736 | 54,821 | 6,980 |
| 66 | NC State U. | 145,675 | 145,877 | 162,953 | 168,872 | 78,860 | 81,256 | 0 | 8,756 |
| 67 | VA Polytechnic Institute and State U. | 115,882 | 129,454 | 150,604 | 167,765 | 91,752 | 57,746 | 14,141 | 4,126 |
| 68 | U. UT | 154,617 | 163,694 | 165,066 | 164,893 | 0 | 44,014 | 95,170 | 25,709 |
| 69 | U. CT all campuses | 150,176 | 156,803 | 154,635 | 161,722 | 9,435 | 67,521 | 80,925 | 3,841 |
| 70 | U. TX Health Science Ctr. San Antonio | 137,039 | 142,375 | 150,040 | 160,282 | 0 | 55,568 | 101,584 | 3,130 |
| 71 | U. VA all campuses | 155,682 | 162,677 | 168,222 | 159,765 | 0 | 56,905 | 101,489 | 1,371 |
| 72 | Boston U. | 164,576 | 168,421 | 169,662 | 158,473 | 0 | 7,592 | 149,182 | 1,699 |
| 73 | Medical C. WI | 139,235 | 143,540 | 147,140 | 158,171 | 0 | 45,620 | 112,551 | 0 |
| 74 | Rutgers, The State U. NJ all campuses | 144,974 | 153,739 | 154,884 | 157,977 | 39,080 | 76,808 | 22,972 | 19,117 |
| 75 | U. MA Worcester | 169,090 | 176,349 | 156,452 | 157,469 | 0 | 56,562 | 82,470 | 18,437 |
| 76 | U. KS all campuses | 128,426 | 135,960 | 137,286 | 146,357 | 834 | 84,259 | 38,514 | 22,750 |
| 77 | U. Miami | 131,424 | 143,165 | 147,260 | 146,063 | 0 | 25,738 | 119,667 | 658 |
| 78 | Dartmouth C. | 120,511 | 129,639 | 140,264 | 140,106 | 0 | 7,325 | 132,781 | 0 |
| 79 | U. TN all campuses | 131,621 | 143,820 | 141,455 | 140,018 | 40,024 | 50,692 | 47,071 | 2,231 |
| 80 | U. IL Urbana-Champaign | 131,495 | 134,291 | 128,733 | 138,193 | 57,552 | 64,368 | 6,412 | 9,861 |
| 81 | WA State U. | 109,290 | 110,356 | 124,270 | 129,984 | 60,532 | 57,728 | 6,164 | 5,560 |
| 82 | Tulane U. | 107,440 | 122,618 | 101,539 | 122,855 | 0 | 31,020 | 25,558 | 66,277 |
| 83 | U. Louisville | 92,381 | 105,077 | 108,833 | 120,424 | 32 | 17,106 | 92,030 | 11,256 |
| 84 | Georgetown U. | 111,732 | 110,052 | 105,029 | 120,423 | 0 | 13,916 | 99,706 | 6,801 |
| 85 | CO State U. | 96,374 | 101,279 | 110,143 | 117,891 | 31,585 | 25,071 | 60,311 | 924 |
| 86 | VA Commonwealth U. | 113,794 | 125,944 | 130,067 | 111,746 | 0 | 44,232 | 59,967 | 7,547 |
| 87 | IA State U. | 103,733 | 106,565 | 111,494 | 111,538 | 54,882 | 39,020 | 12,199 | 5,437 |
| 88 | OR State U. | 100,349 | 103,729 | 108,074 | 108,754 | 60,671 | 42,113 | 4,634 | 1,336 |
| 89 | U. AR for Medical Sciences | 74,063 | 90,987 | 107,871 | 108,551 | 0 | 42,334 | 62,454 | 3,763 |
| 90 | SUNY Stony Brook all campuses | 116,965 | 118,250 | 97,924 | 107,738 | 0 | 53,799 | 53,795 | 144 |

Appendix I. R&D Expenditures in the Life Sciences at Universities and Colleges, Ranked by all FY 2007 Life Sciences for the First 150 Institutions: FY 2004–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2004 | 2005 | 2006 | 2007 | | | | |
|------|--|----------|---------|---------|-------------------|-----------------------|---------------------|------------------|--------------------|
| | | | | | All life sciences | Agricultural sciences | Biological sciences | Medical sciences | Life sciences, nec |
| 91 | Thomas Jefferson U. | 112,078 | 107,388 | 106,986 | 107,288 | 0 | 49,720 | 55,675 | 1,893 |
| 92 | MS State U. | 94,584 | 97,315 | 98,183 | 105,564 | 92,083 | 4,415 | 5,225 | 3,841 |
| 93 | U. NM main campus | 90,392 | 108,297 | 109,570 | 104,285 | 17 | 32,132 | 68,147 | 3,989 |
| 94 | Tufts U. | 101,374 | 102,078 | 101,279 | 104,040 | 49 | 81,748 | 22,169 | 74 |
| 95 | SUNY Albany | 90,232 | 102,721 | 96,729 | 102,740 | 0 | 97,165 | 5,084 | 491 |
| 96 | U. OK all campuses | 87,944 | 97,497 | 101,346 | 100,945 | 0 | 40,696 | 56,387 | 3,862 |
| 97 | U. VT | 99,972 | 102,016 | 107,137 | 98,031 | 9,252 | 31,469 | 46,529 | 10,781 |
| 98 | U. HI Manoa | 99,014 | 84,326 | 83,980 | 90,518 | 17,993 | 7,424 | 57,078 | 8,023 |
| 99 | WV U. | 61,925 | 71,207 | 79,957 | 85,132 | 22,479 | 16,527 | 41,862 | 4,264 |
| 100 | Rush U. | 86,802 | 81,032 | 81,159 | 82,539 | 0 | 19,366 | 61,052 | 2,121 |
| 101 | KS State U. | 78,673 | 80,444 | 79,617 | 81,631 | 52,359 | 28,229 | 1,043 | 0 |
| 102 | Brown U. | 68,879 | 71,997 | 82,681 | 79,473 | 0 | 35,240 | 17,026 | 27,207 |
| 103 | U. MS all campuses | 52,366 | 64,436 | 64,905 | 77,154 | 0 | 9,851 | 42,897 | 24,406 |
| 104 | TX A&M U. System Health Science Ctr. | 61,405 | 70,696 | 74,132 | 76,983 | 478 | 221 | 76,284 | 0 |
| 105 | Auburn U. all campuses | 79,811 | 80,632 | 80,290 | 75,450 | 54,826 | 16,383 | 2,119 | 2,122 |
| 106 | MT State U. Bozeman | 58,661 | 70,876 | 71,686 | 69,880 | 53,630 | 14,501 | 946 | 803 |
| 107 | U. CA, Riverside | 58,891 | 66,421 | 64,407 | 68,274 | 11,896 | 53,697 | 2,681 | 0 |
| 108 | U. MD College Park | 58,758 | 61,801 | 60,333 | 66,733 | 43,584 | 15,576 | 0 | 7,573 |
| 109 | Uniformed Services U. of the Health Sciences | 89,850 | 78,608 | 63,175 | 64,988 | 0 | 8,234 | 56,754 | 0 |
| 110 | Temple U. | 53,739 | 56,742 | 56,304 | 63,124 | 581 | 20,393 | 34,944 | 7,206 |
| 111 | OK State U. all campuses | 58,529 | 59,077 | 60,369 | 62,334 | 34,038 | 24,073 | 4,029 | 194 |
| 112 | Medical C. GA | 58,808 | 67,278 | 61,174 | 60,001 | 0 | 43,819 | 15,015 | 1,167 |
| 113 | U. AR main campus | 56,053 | 56,408 | 59,420 | 59,797 | 55,378 | 3,030 | 0 | 1,389 |
| 114 | ND State U. all campuses | 56,857 | 56,939 | 58,219 | 58,444 | 46,401 | 4,608 | 7,435 | 0 |
| 115 | Clemson U. | 49,788 | 49,709 | 52,287 | 57,090 | 32,694 | 20,763 | 2,027 | 1,606 |
| 116 | AZ State U. | 29,588 | 45,181 | 46,523 | 53,252 | 879 | 43,875 | 0 | 8,498 |
| 117 | U. ID | 55,187 | 53,851 | 55,712 | 52,689 | 31,538 | 16,796 | 4,355 | 0 |
| 118 | U. CA Office of the President | 56,382 | 59,470 | 54,580 | 52,342 | 4,867 | 3,673 | 43,802 | 0 |
| 119 | Charles R. Drew U. of Medicine and Science | 51,994 | 43,231 | 47,188 | 52,118 | 0 | 0 | 52,118 | 0 |
| 120 | St. Louis U. all campuses | 39,869 e | 45,844 | 46,044 | 51,432 | 0 | 907 | 39,240 | 11,285 |
| 121 | U. MA Amherst | 34,791 | 37,850 | 42,796 | 50,796 | 20,795 | 22,757 | 5,401 | 1,843 |
| 122 | U. TX Austin | 44,309 | 48,211 | 48,983 | 50,210 | 198 | 31,596 | 17,679 | 737 |
| 123 | George Washington U. | 42,195 | 44,412 | 44,856 | 49,146 | 0 | 14,971 | 34,175 | 0 |
| 124 | U. MD Biotechnology Institute | 37,073 | 44,838 | 47,012 | 47,699 | 15,067 | 26,586 | 0 | 6,046 |
| 125 | CA Institute of Technology | 44,270 | 44,305 | 44,259 | 47,522 | 0 | 47,522 | 0 | 0 |
| 126 | Drexel U. | 35,854 | 41,882 | 48,341 | 46,819 | 0 | 24,025 | 21,335 | 1,459 |
| 127 | U. NV, Reno | 48,236 | 52,114 | 47,284 | 45,392 | 16,813 | 21,313 | 7,256 | 10 |
| 128 | UT State U. | 45,921 | 47,663 | 51,247 | 44,797 | 31,572 | 9,330 | 3,846 | 49 |
| 129 | U. SC all campuses | 38,926 | 39,742 | 40,297 | 41,304 | 0 | 10,571 | 30,733 | 0 |
| 130 | Southern IL U. Carbondale | 32,716 | 36,055 | 40,662 | 41,002 | 8,925 | 8,560 | 22,832 | 685 |
| 131 | SUNY Upstate Medical U. | 32,090 | 34,931 | 37,181 | 39,699 | 0 | 10,497 | 29,202 | 0 |
| 132 | U. WY | 27,752 e | 33,885 | 51,003 | 38,911 | 18,540 | 15,161 | 5,210 | 0 |
| 133 | U. PR Medical Sciences Campus | 34,092 | 35,809 | 38,424 | 38,863 | 0 | 0 | 38,863 | 0 |
| 134 | Princeton U. | 38,198 | 41,607 | 38,653 | 38,002 | 0 | 38,002 | 0 | 0 |

Appendix I. R&D Expenditures in the Life Sciences at Universities and Colleges, Ranked by all FY 2007 Life Sciences for the First 150 Institutions: FY 2004–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2004 | 2005 | 2006 | 2007 | | | | |
|------|-----------------------------------|-------------|-----------|-----------|-------------------|-----------------------|---------------------|------------------|--------------------|
| | | | | | All life sciences | Agricultural sciences | Biological sciences | Medical sciences | Life sciences, nec |
| 135 | U. MT-Missoula, The | 33,350 | 36,797 | 35,129 | 37,807 | 9,805 | 15,189 | 11,263 | 1,550 |
| 136 | NM State U. main campus | 25,766 | 29,198 | 39,624 | 37,046 | 32,711 | 3,999 | 0 | 336 |
| 137 | U. ME | 31,107 | 26,774 | 37,181 | 35,016 | 18,256 | 13,609 | 37 | 3,114 |
| 138 | NY Medical C. | 33,521 | 32,460 | 34,397 | 34,365 | 0 | 26,117 | 8,248 | 0 |
| 139 | Loyola U. Chicago | 34,145 | 36,593 | 35,999 | 33,473 | 0 | 10,783 | 21,185 | 1,505 |
| 140 | U. AK Fairbanks all campuses | 29,193 | 29,679 | 33,673 | 33,230 i | 14,592 i | 18,638 i | 0 i | 0 i |
| 141 | Meharry Medical C. | 27,507 | 29,105 | 32,878 | 33,218 | 0 | 28,572 | 2,691 | 1,955 |
| 142 | Eastern VA Medical School | 33,798 | 33,721 | 33,013 | 31,453 | 0 | 5,761 | 25,492 | 200 |
| 143 | SD State U. | 25,363 | 26,556 | 27,454 | 31,401 | 22,227 | 3,953 | 533 | 4,688 |
| 144 | FL State U. | 32,559 | 29,859 | 30,403 | 30,293 | 0 | 18,658 | 7,412 | 4,223 |
| 145 | SUNY Health Science Ctr. Brooklyn | 30,207 i | 29,732 | 31,064 | 29,809 | 0 | 10,621 | 19,188 | 0 |
| 146 | Wright State U. all campuses | 21,437 | 25,393 | 30,574 | 29,416 | 0 | 2,386 | 26,430 | 600 |
| 147 | U. DE | 25,244 | 26,600 | 28,596 | 29,165 | 17,998 | 6,884 | 0 | 4,283 |
| 148 | U. Toledo | 4,173 | 6,399 | 7,285 | 28,700 | 3,272 | 16,354 | 8,325 | 749 |
| 149 | U. LA Lafayette | 35,099 | 24,391 | 26,583 | 28,555 | 257 | 3,379 | 22,926 | 1,993 |
| 150 | Howard U. | 27,232 | 29,602 | 25,284 | 28,407 | 0 | 16,140 | 12,013 | 254 |
| | All other surveyed institutions | 1,180,374 # | 1,276,109 | 1,323,793 | 1,351,077 | 195,391 | 684,963 | 346,188 | 124,535 |

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

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$25,677 in total R&D expenditures in the life sciences in FY 2007.

NOTES: Institutions reporting zero expenditures in the ranked total for FY 2007 are not included in this table. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix J. Total and Federally Financed R&D Expenditures in the Mathematical Sciences at Universities and Colleges, Ranked by FY 2007 total for the First 100 Institutions: FY 2004–07

(Dollars in Thousands)

| Rank | Institution | Total | | | | Federally financed | | | |
|------|---|---------------------|---------|---------|---------|--------------------|---------|---------|---------|
| | | 2004 | 2005 | 2006 | 2007 | 2004 | 2005 | 2006 | 2007 |
| | All institutions | 448,502 | 494,539 | 532,877 | 571,579 | 317,889 | 346,294 | 374,933 | 408,082 |
| 1 | George Washington U. | 25,499 | 33,307 | 40,151 | 51,672 | 24,328 | 31,516 | 38,015 | 48,846 |
| 2 | Johns Hopkins U., The ^a | 28,727 | 27,874 | 27,163 | 29,396 | 28,345 | 25,946 | 26,529 | 29,012 |
| 3 | U. TX Austin | 14,454 | 18,672 | 21,715 | 26,799 | 10,608 | 11,698 | 12,471 | 19,660 |
| 4 | U. TX M. D. Anderson Cancer Ctr. | 14,950 | 17,543 | 21,675 | 22,426 | 4,799 | 4,963 | 5,553 | 5,396 |
| 5 | NC State U. | 14,649 | 15,818 | 14,924 | 16,733 | 6,874 | 8,033 | 8,457 | 8,525 |
| 6 | OH State U. all campuses | 6,827 | 7,884 | 13,362 | 12,547 | 4,543 | 5,132 | 8,201 | 7,559 |
| 7 | Rutgers, The State U. NJ all campuses | 9,787 | 9,747 | 10,389 | 11,313 | 5,335 | 5,078 | 5,184 | 5,892 |
| 8 | PA State U. all campuses | 8,348 | 15,718 | 10,571 | 10,950 | 5,466 | 11,081 | 7,005 | 7,515 |
| 9 | NY U. | 7,208 | 7,829 | 7,699 | 9,750 | 6,603 | 7,662 | 6,783 | 8,967 |
| 10 | Brown U. | 6,520 | 7,351 | 8,335 | 9,247 | 3,666 | 4,033 | 4,442 | 5,372 |
| 11 | U. MN all campuses | 5,963 | 7,137 | 7,901 | 8,577 | 4,159 | 4,993 | 5,517 | 6,024 |
| 12 | IA State U. | 8,754 | 10,322 | 8,588 | 8,443 | 3,725 | 5,239 | 4,577 | 3,995 |
| 13 | GA Institute of Technology all campuses | 6,250 | 6,038 | 6,196 | 8,371 | 2,234 | 2,612 | 2,478 | 2,769 |
| 14 | U. Southern CA | 4,157 | 5,530 | 7,306 | 8,217 | 3,065 | 4,386 | 5,419 | 6,733 |
| 15 | AZ State U. | 1,827 | 3,578 | 5,958 | 8,053 | 1,467 | 3,113 | 3,998 | 5,352 |
| 16 | TX A&M U. | 9,180 | 9,323 | 9,786 | 7,697 | 7,696 | 7,560 | 8,223 | 6,166 |
| 17 | Stanford U. | 5,614 | 6,630 | 7,627 | 7,531 | 5,088 | 5,996 | 7,068 | 7,056 |
| 18 | U. CA, Berkeley | 6,731 | 7,129 | 7,373 | 6,960 | 5,676 | 5,417 | 5,763 | 4,978 |
| 19 | Duke U. | 1,841 | 5,395 | 6,687 | 6,869 | 1,606 | 4,505 | 5,553 | 5,910 |
| 20 | U. MD College Park | 5,330 | 5,228 | 5,856 | 6,626 | 2,417 | 3,095 | 3,593 | 5,162 |
| 21 | SUNY Stony Brook all campuses | 5,467 | 5,781 | 6,871 | 6,364 | 3,297 | 3,015 | 3,002 | 3,057 |
| 22 | U. KY all campuses | 4,496 | 5,884 | 6,711 | 6,252 | 3,657 | 4,736 | 5,476 | 5,959 |
| 23 | U. WI Madison | 4,803 | 5,578 | 6,033 | 6,054 | 3,043 | 3,891 | 4,238 | 4,262 |
| 24 | MI State U. | 3,492 | 4,305 | 4,757 | 5,913 | 2,753 | 3,145 | 3,310 | 3,918 |
| 25 | U. FL | 3,915 | 4,790 | 4,933 | 5,660 | 2,919 | 3,521 | 3,205 | 3,551 |
| 26 | U. GA | 6,033 | 5,692 | 5,990 | 5,657 | 1,312 | 1,184 | 1,160 | 994 |
| 27 | Boston C. | 12,409 ^e | 4,641 | 5,822 | 5,578 | 8,840 ^e | 546 | 600 | 501 |
| 28 | U. CA, Los Angeles | 5,818 | 5,990 | 6,604 | 5,439 | 4,148 | 4,899 | 5,018 | 4,199 |
| 29 | U. MI all campuses | 4,053 | 4,674 | 5,220 | 5,374 | 2,950 | 3,379 | 3,975 | 4,434 |
| 30 | Princeton U. | 4,072 | 4,142 | 4,596 | 5,324 | 2,556 | 2,571 | 3,226 | 3,970 |
| 31 | U. WA | 4,198 | 4,253 | 5,522 | 5,134 | 3,868 | 3,994 | 5,148 | 4,671 |
| 32 | Naval Postgraduate School | 3,111 ⁱ | 4,268 | 4,323 | 4,960 | 2,935 ⁱ | 3,643 | 4,228 | 4,931 |
| 33 | MA Institute of Technology | 5,036 | 4,268 | 4,372 | 4,898 | 3,772 | 3,451 | 3,946 | 4,314 |
| 34 | Purdue U. all campuses | 4,467 | 4,330 | 4,360 | 4,872 | 3,244 | 3,097 | 3,232 | 3,415 |
| 35 | U. NE all campuses | 2,781 | 3,885 | 4,411 | 4,611 | 895 | 1,353 | 1,575 | 1,355 |
| 36 | U. Chicago | 4,726 | 4,836 | 3,889 | 4,187 | 4,382 | 4,609 | 3,698 | 3,849 |
| 37 | NJ Institute of Technology | 2,506 | 3,182 | 3,287 | 4,006 | 1,130 | 1,587 | 1,779 | 2,051 |
| 38 | U. IL Urbana-Champaign | 3,951 | 3,770 | 3,462 | 3,950 | 2,584 | 2,395 | 2,658 | 2,801 |
| 39 | U. CA, Davis | 2,648 | 3,142 | 3,827 | 3,814 | 2,139 | 2,608 | 3,122 | 3,055 |
| 40 | U. CA, San Diego | 3,355 | 3,841 | 3,715 | 3,764 | 2,463 | 2,773 | 2,538 | 2,528 |
| 41 | CA State U. Dominguez Hills | 1,437 | 1,413 | 1,199 | 3,704 | 962 | 626 | 752 | 3,151 |
| 42 | Cornell U. all campuses | 3,713 | 4,015 | 3,744 | 3,674 | 2,589 | 3,072 | 2,964 | 3,016 |
| 43 | Carnegie Mellon U. | 3,195 | 3,472 | 2,633 | 3,654 | 2,966 | 3,205 | 2,442 | 3,325 |
| 44 | Rice U. | 3,619 | 3,591 | 3,956 | 3,502 | 3,514 | 3,278 | 3,389 | 2,999 |
| 45 | Harvard U. | 2,223 | 2,366 | 2,895 | 3,431 | 2,223 | 2,366 | 2,895 | 3,332 |
| 46 | Clemson U. | 1,698 | 1,871 | 2,818 | 3,214 | 500 | 500 | 963 | 1,005 |
| 47 | George Mason U. | 4,038 | 1,145 | 6,133 | 3,209 | 3,862 | 1,014 | 4,791 | 2,903 |
| 48 | U. AZ | 5,060 | 4,852 | 5,576 | 3,137 | 3,821 | 3,691 | 4,531 | 2,233 |

Appendix J. Total and Federally Financed R&D Expenditures in the Mathematical Sciences at Universities and Colleges, Ranked by FY 2007 total for the First 100 Institutions: FY 2004–07

(Dollars in Thousands)

| Rank | Institution | Total | | | | Federally financed | | | |
|------|---------------------------------------|-------|-------|-------|-------|--------------------|-------|-------|-------|
| | | 2004 | 2005 | 2006 | 2007 | 2004 | 2005 | 2006 | 2007 |
| 49 | CO State U. | 3,012 | 2,949 | 3,991 | 3,093 | 2,565 | 1,867 | 3,272 | 2,627 |
| 50 | U. CA, Irvine | 2,265 | 3,077 | 3,315 | 3,087 | 1,713 | 1,974 | 2,075 | 2,133 |
| 51 | Rensselaer Polytechnic Institute | 1,901 | 2,668 | 3,036 | 3,017 | 1,690 | 2,339 | 2,656 | 2,483 |
| 52 | Western MI U. | 2,396 | 2,404 | 2,416 | 2,997 | 1,827 | 1,673 | 1,946 | 2,269 |
| 53 | U. MA Amherst | 2,362 | 2,519 | 2,981 | 2,869 | 1,584 | 1,490 | 1,972 | 1,921 |
| 54 | Northwestern U. | 1,460 | 2,655 | 2,082 | 2,837 | 1,237 | 2,263 | 1,767 | 2,383 |
| 55 | LA State U. all campuses | 1,684 | 1,823 | 2,301 | 2,823 | 398 | 677 | 949 | 1,395 |
| 56 | Rockefeller U. | 2,977 | 2,287 | 2,777 | 2,812 | 1,506 | 1,205 | 1,407 | 1,847 |
| 57 | U. AL Birmingham, The | 503 | 579 | 537 | 2,764 | 382 | 557 | 529 | 2,762 |
| 58 | U. SC all campuses | 2,301 | 2,132 | 2,688 | 2,752 | 1,311 | 1,339 | 2,029 | 2,027 |
| 59 | VA Polytechnic Institute and State U. | 2,332 | 2,705 | 2,222 | 2,749 | 1,409 | 1,731 | 1,276 | 1,323 |
| 60 | U. PA | 2,948 | 3,485 | 3,642 | 2,717 | 2,642 | 3,153 | 3,124 | 2,296 |
| 61 | SUNY Buffalo all campuses | 1,932 | 1,315 | 1,792 | 2,695 | 902 | 528 | 868 | 1,977 |
| 62 | U. NC Chapel Hill | 1,726 | 2,762 | 2,276 | 2,658 | 1,405 | 1,668 | 1,702 | 2,079 |
| 63 | OR State U. | 1,412 | 1,650 | 2,374 | 2,531 | 1,280 | 1,538 | 2,250 | 2,224 |
| 64 | U. IL Chicago | 4,669 | 3,606 | 2,478 | 2,365 | 3,240 | 2,198 | 1,698 | 1,679 |
| 65 | U. UT | 1,543 | 1,592 | 1,476 | 2,316 | 1,254 | 1,303 | 1,317 | 2,201 |
| 66 | U. CO all campuses | 2,862 | 2,348 | 2,261 | 2,296 | 2,307 | 1,878 | 1,985 | 2,061 |
| 67 | U. Pittsburgh all campuses | 1,753 | 1,892 | 2,295 | 2,190 | 1,612 | 1,658 | 2,071 | 1,952 |
| 68 | U. MO-Columbia | 1,233 | 1,547 | 1,705 | 2,176 | 834 | 1,112 | 1,404 | 1,810 |
| 69 | CA Institute of Technology | 921 | 1,426 | 2,165 | 2,027 | 921 | 1,426 | 2,165 | 1,971 |
| 70 | IN U. all campuses | 3,771 | 2,685 | 3,490 | 1,997 | 2,275 | 2,440 | 2,422 | 1,707 |
| 71 | U. Houston | 1,064 | 2,147 | 2,340 | 1,917 | 780 | 1,298 | 1,263 | 1,198 |
| 72 | FL State U. | 2,388 | 2,577 | 2,350 | 1,905 | 1,256 | 1,664 | 1,618 | 1,245 |
| 73 | U. IA | 2,612 | 2,860 | 2,177 | 1,839 | 2,045 | 2,199 | 1,730 | 1,340 |
| 74 | VA Commonwealth U. | 78 | 517 | 1,010 | 1,789 | 66 | 435 | 838 | 1,520 |
| 75 | MI Technological U. | 773 | 777 | 1,523 | 1,740 | 132 | 233 | 463 | 467 |
| 76 | MS State U. | 1,457 | 1,492 | 1,545 | 1,720 | 294 | 418 | 420 | 583 |
| 77 | Columbia U. in the City of NY | 1,133 | 1,509 | 1,676 | 1,718 | 1,133 | 1,509 | 1,676 | 1,718 |
| 78 | U. MD Baltimore County | 819 | 1,035 | 1,611 | 1,698 | 729 | 903 | 1,306 | 824 |
| 79 | Boston U. | 1,909 | 1,964 | 1,964 | 1,561 | 1,723 | 1,737 | 1,634 | 1,286 |
| 80 | Tulane U. | 2,036 | 2,302 | 1,572 | 1,560 | 1,622 | 1,792 | 1,319 | 1,318 |
| 81 | Old Dominion U. | 755 | 1,576 | 1,265 | 1,454 | 535 | 375 | 505 | 589 |
| 82 | San Jose State U. | 1,122 | 1,169 | 1,429 | 1,447 | 133 | 117 | 269 | 268 |
| 83 | Vanderbilt U. | 962 | 1,237 | 1,186 | 1,401 | 892 | 1,124 | 1,035 | 1,261 |
| 84 | Air Force Institute of Technology | 452 | 450 | 574 | 1,389 | 190 | 182 | 248 | 620 |
| 85 | U. of Notre Dame | 1,270 | 1,373 | 1,452 | 1,331 | 1,172 | 1,260 | 1,319 | 1,174 |
| 86 | U. NM main campus | 1,487 | 1,439 | 1,257 | 1,311 | 1,389 | 1,328 | 1,168 | 1,148 |
| 87 | U. AR Little Rock | 49 | 705 | 1,254 | 1,300 | 0 | 493 | 207 | 210 |
| 88 | Morgan State U. | 2,140 | 1,897 | 2,313 | 1,280 | 2,140 | 1,897 | 2,313 | 1,280 |
| 89 | U. DE | 789 | 590 | 1,151 | 1,279 | 652 | 460 | 873 | 1,089 |
| 90 | Worcester Polytechnic Institute | 595 | 1,258 | 1,136 | 1,237 | 394 | 1,117 | 987 | 1,014 |
| 91 | San Diego State U. | 1,167 | 712 | 1,052 | 1,217 | 501 | 40 | 399 | 421 |
| 92 | Rowan U. | 724 | 1,027 | 1,451 | 1,208 | 543 | 548 | 1,267 | 1,001 |
| 93 | Yale U. | 1,049 | 1,612 | 1,343 | 1,207 | 969 | 1,086 | 877 | 1,015 |
| 94 | U. NC Asheville | 0 | 0 | 7 | 1,161 | 0 | 0 | 7 | 635 |
| 95 | U. CA, Santa Barbara | 1,232 | 1,193 | 1,153 | 1,145 | 545 | 731 | 842 | 960 |
| 96 | Jackson State U. | 1,234 | 1,330 | 1,565 | 1,142 | 1,123 | 1,130 | 1,259 | 959 |
| 97 | U. MA Dartmouth | 833 | 945 | 1,136 | 1,088 | 674 | 945 | 972 | 746 |

Appendix J. Total and Federally Financed R&D Expenditures in the Mathematical Sciences at Universities and Colleges, Ranked by FY 2007 total for the First 100 Institutions: FY 2004–07

(Dollars in Thousands)

| Rank | Institution | Total | | | | Federally financed | | | |
|------|---------------------------------|--------|--------|--------|--------|--------------------|--------|--------|--------|
| | | 2004 | 2005 | 2006 | 2007 | 2004 | 2005 | 2006 | 2007 |
| 98 | Emory U. | 497 | 487 | 604 | 1,075 | 482 | 483 | 594 | 753 |
| 99 | CA State U. Northridge | 270 | 244 | 1,085 | 1,074 | 229 | 210 | 1,000 | 1,054 |
| 100 | U. MT-Missoula, The | 851 | 879 | 1,195 | 1,044 | 764 | 750 | 1,130 | 983 |
| | All other surveyed institutions | 59,856 | 65,100 | 60,280 | 64,061 | 39,464 | 43,606 | 41,821 | 43,608 |

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

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$28,024 in total and \$27,754 in federally financed R&D expenditures in the mathematical sciences in FY 2007.

NOTES: Institutions reporting zero expenditures in the ranked total for FY 2007 are not included in this table. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix K. R&D Expenditures in the Physical Sciences at Universities and Colleges, Ranked by all FY 2007 Physical Sciences for the First 100 Institutions: FY 2004–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2004 | 2005 | 2006 | 2007 | | | | Physical sciences, nec |
|------|---|-----------|-----------|-----------|-----------------------|-----------|-----------|-----------|------------------------|
| | | | | | All physical sciences | Astronomy | Chemistry | Physics | |
| | All institutions | 3,547,023 | 3,702,233 | 3,811,540 | 3,842,391 | 462,805 | 1,447,351 | 1,613,462 | 318,773 |
| 1 | CA Institute of Technology | 139,631 | 143,657 | 148,686 | 162,934 | 9,390 | 35,420 | 118,124 | 0 |
| 2 | U. AZ | 124,566 | 147,092 | 148,625 | 152,825 | 130,941 | 14,094 | 7,790 | 0 |
| 3 | Johns Hopkins U., The ^a | 148,780 | 146,097 | 140,183 | 129,480 | 39,204 | 16,376 | 62,034 | 11,866 |
| 4 | MA Institute of Technology | 104,868 | 104,485 | 98,367 | 99,257 | 20,166 | 20,620 | 52,922 | 5,549 |
| 5 | U. CA, Berkeley | 97,862 | 120,957 | 106,207 | 96,153 | 12,089 | 28,283 | 53,592 | 2,189 |
| 6 | U. TX Austin | 75,345 | 83,371 | 85,380 | 87,693 | 12,363 | 21,782 | 50,360 | 3,188 |
| 7 | Cornell U. all campuses | 86,225 | 84,833 | 89,517 | 86,822 | 14,867 | 18,380 | 43,964 | 9,611 |
| 8 | U. MD College Park | 54,976 | 60,544 | 60,990 | 65,454 | 16,076 | 10,274 | 38,744 | 360 |
| 9 | U. CO all campuses | 57,472 | 58,784 | 63,594 | 65,229 | 21,328 | 17,672 | 20,219 | 6,010 |
| 10 | Stanford U. | 89,041 | 94,093 | 73,010 | 64,642 | 0 | 17,056 | 9,797 | 37,789 |
| 11 | U. CA, Los Angeles | 59,270 | 53,851 | 59,431 | 64,325 | 0 | 22,325 | 41,031 | 969 |
| 12 | SUNY Albany | 30,653 | 45,404 | 52,626 | 64,005 | 0 | 1,792 | 614 | 61,599 |
| 13 | MI State U. | 52,277 | 54,666 | 55,319 | 60,293 | 0 | 14,443 | 45,850 | 0 |
| 14 | FL State U. | 50,839 | 47,794 | 53,752 | 58,626 | 0 | 8,671 | 49,937 | 18 |
| 15 | PA State U. all campuses | 59,831 | 61,961 | 64,166 | 56,783 | 8,826 | 18,796 | 29,161 | 0 |
| 16 | U. IL Urbana-Champaign | 50,152 | 52,413 | 56,693 | 56,747 | 3,204 | 27,981 | 25,562 | 0 |
| 17 | U. WI Madison | 51,853 | 52,715 | 55,697 | 56,304 | 5,692 | 17,122 | 25,660 | 7,830 |
| 18 | Harvard U. | 41,824 | 47,993 | 57,415 | 52,487 | 4,705 | 29,029 | 15,888 | 2,865 |
| 19 | U. CA, San Diego | 45,849 | 51,400 | 49,841 | 51,646 | 0 | 22,599 | 26,644 | 2,403 |
| 20 | U. Chicago | 45,684 | 46,785 | 49,120 | 46,682 | 15,178 | 14,187 | 11,080 | 6,237 |
| 21 | U. CA, Santa Cruz | 37,630 | 37,919 | 37,970 | 41,950 | 25,393 | 7,607 | 8,950 | 0 |
| 22 | U. HI Manoa | 22,653 | 29,343 | 40,300 | 40,124 | 32,455 | 1,860 | 5,305 | 504 |
| 23 | TX A&M U. | 36,942 | 37,523 | 38,430 | 39,200 | 0 | 23,651 | 13,233 | 2,316 |
| 24 | U. MI all campuses | 38,783 | 39,648 | 40,860 | 38,241 | 3,172 | 15,939 | 14,961 | 4,169 |
| 25 | U. Central FL | 27,738 | 26,498 | 34,009 | 38,035 | 0 | 2,724 | 26,297 | 9,014 |
| 26 | Rutgers, The State U. NJ all campuses | 32,900 | 37,725 | 39,420 | 37,734 | 0 | 21,128 | 16,606 | 0 |
| 27 | Princeton U. | 31,297 | 33,237 | 28,357 | 36,754 | 5,248 | 13,313 | 18,193 | 0 |
| 28 | GA Institute of Technology all campuses | 26,380 | 29,469 | 35,570 | 36,562 | 0 | 23,356 | 13,193 | 13 |
| 29 | U. CA, Santa Barbara | 25,236 | 25,153 | 30,624 | 35,468 | 0 | 4,419 | 14,612 | 16,437 |
| 30 | U. WA | 34,917 | 33,582 | 33,803 | 34,067 | 3,227 | 17,843 | 12,997 | 0 |
| 31 | SUNY Stony Brook all campuses | 29,737 | 30,384 | 43,463 | 33,050 | 1,972 | 14,383 | 16,695 | 0 |
| 32 | U. CA, Irvine | 22,364 | 27,105 | 31,837 | 33,047 | 0 | 17,129 | 15,918 | 0 |
| 33 | IN U. all campuses | 51,497 | 36,476 | 46,233 | 32,124 | 671 | 11,336 | 20,114 | 3 |
| 34 | U. FL | 33,960 | 34,350 | 33,892 | 30,751 | 3,263 | 13,417 | 13,329 | 742 |
| 35 | Columbia U. in the City of NY | 36,884 | 47,824 | 34,271 | 30,645 | 6,600 | 7,236 | 3,253 | 13,556 |
| 36 | U. PA | 27,360 | 32,380 | 33,236 | 29,279 | 0 | 13,998 | 15,281 | 0 |
| 37 | Purdue U. all campuses | 19,563 | 20,632 | 22,292 | 29,026 | 0 | 19,605 | 9,109 | 312 |
| 38 | Northwestern U. | 27,063 | 26,828 | 25,473 | 28,268 | 0 | 20,435 | 6,392 | 1,441 |
| 39 | OH State U. all campuses | 31,277 | 31,788 | 27,687 | 27,428 | 2,765 | 11,168 | 13,191 | 304 |
| 40 | Boston U. | 24,437 | 21,402 | 24,799 | 26,115 | 1,217 | 4,163 | 6,459 | 14,276 |
| 41 | U. NC Chapel Hill | 21,524 | 23,398 | 26,032 | 25,471 | 0 | 20,166 | 5,305 | 0 |
| 42 | U. MN all campuses | 25,803 | 26,914 | 28,001 | 24,961 | 2,366 | 11,677 | 10,918 | 0 |
| 43 | LA State U. all campuses | 20,325 | 28,230 | 24,391 | 24,687 | 0 | 15,848 | 8,758 | 81 |
| 44 | U. CA, Davis | 24,424 | 21,533 | 24,141 | 23,445 | 0 | 9,054 | 5,939 | 8,452 |
| 45 | U. CA, San Francisco | 29,609 | 26,041 | 25,664 | 22,601 | 0 | 22,601 | 0 | 0 |

Appendix K. R&D Expenditures in the Physical Sciences at Universities and Colleges, Ranked by all FY 2007 Physical Sciences for the First 100 Institutions: FY 2004–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2004 | 2005 | 2006 | 2007 | | | | |
|------|---------------------------------------|--------|---------|--------|-----------------------|-----------|-----------|---------|------------------------|
| | | | | | All physical sciences | Astronomy | Chemistry | Physics | Physical sciences, nec |
| 46 | NM Institute of Mining and Technology | 2,390 | 3,486 i | 21,777 | 21,482 | 10,110 | 1,744 | 1,434 | 8,194 |
| 47 | Yale U. | 20,136 | 20,533 | 21,867 | 20,967 | 1,280 | 8,015 | 11,672 | 0 |
| 48 | U. IA | 16,081 | 17,611 | 18,338 | 20,462 | 1,289 | 7,570 | 11,603 | 0 |
| 49 | U. of Notre Dame | 19,271 | 16,528 | 19,026 | 19,978 | 0 | 10,071 | 9,907 | 0 |
| 50 | U. UT | 18,872 | 20,030 | 20,635 | 19,963 | 0 | 14,312 | 5,651 | 0 |
| 51 | U. CA Office of the President | 17,713 | 18,260 | 19,053 | 19,775 | 17,278 | 0 | 2,497 | 0 |
| 52 | Duke U. | 17,878 | 18,250 | 17,594 | 18,842 | 0 | 7,435 | 11,407 | 0 |
| 53 | NC State U. | 20,885 | 26,469 | 19,363 | 18,833 | 0 | 7,887 | 10,946 | 0 |
| 54 | VA Polytechnic Institute and State U. | 14,460 | 14,786 | 14,150 | 18,638 | 0 | 13,685 | 4,820 | 133 |
| 55 | U. SC all campuses | 15,838 | 14,032 | 17,956 | 18,316 | 0 | 13,008 | 4,507 | 801 |
| 56 | U. Pittsburgh all campuses | 20,164 | 21,731 | 19,109 | 17,550 | 1,061 | 11,793 | 4,386 | 310 |
| 57 | Vanderbilt U. | 12,777 | 15,092 | 20,719 | 17,330 | 0 | 7,695 | 9,635 | 0 |
| 58 | Emory U. | 8,774 | 9,985 | 10,627 | 17,198 | 0 | 15,700 | 1,498 | 0 |
| 59 | Rice U. | 17,436 | 18,690 | 16,089 | 16,908 | 239 | 5,999 | 10,670 | 0 |
| 60 | U. MS all campuses | 17,555 | 18,720 | 18,884 | 16,873 | 0 | 647 | 16,223 | 3 |
| 61 | WA State U. | 15,268 | 15,624 | 16,213 | 16,592 | 35 | 6,832 | 9,592 | 133 |
| 62 | Catholic U. America, The | 18,820 | 16,332 | 14,026 | 16,309 | 0 | 887 | 6,255 | 9,167 |
| 63 | AZ State U. | 21,447 | 23,607 | 19,051 | 16,249 | 508 | 11,300 | 4,382 | 59 |
| 64 | SUNY Buffalo all campuses | 16,751 | 13,792 | 14,339 | 16,134 | 0 | 13,148 | 2,919 | 67 |
| 65 | Wayne State U. | 15,325 | 14,320 | 13,411 | 15,975 | 0 | 9,490 | 3,938 | 2,547 |
| 66 | U. TN all campuses | 13,636 | 17,985 | 15,961 | 15,842 | 0 | 5,462 | 10,380 | 0 |
| 67 | U. VA all campuses | 17,037 | 17,076 | 15,556 | 15,795 | 3,438 | 6,229 | 6,128 | 0 |
| 68 | U. GA | 12,733 | 13,444 | 16,439 | 15,685 | 0 | 9,502 | 6,183 | 0 |
| 69 | Northeastern U. | 14,081 | 15,512 | 13,189 | 15,576 | 0 | 8,003 | 7,573 | 0 |
| 70 | U. NM main campus | 8,069 | 11,242 | 16,955 | 15,551 | 40 | 2,622 | 8,160 | 4,729 |
| 71 | U. NE all campuses | 13,548 | 13,797 | 15,446 | 15,332 | 0 | 6,142 | 9,190 | 0 |
| 72 | NM State U. main campus | 9,456 | 12,453 | 12,313 | 15,265 | 5,388 | 7,931 | 1,769 | 177 |
| 73 | U. DE | 16,837 | 17,308 | 14,558 | 15,157 | 70 | 7,216 | 2,207 | 5,664 |
| 74 | ND State U. all campuses | 14,277 | 13,116 | 14,355 | 14,989 | 0 | 4,779 | 188 | 10,022 |
| 75 | MT State U. Bozeman | 13,947 | 14,252 | 15,117 | 14,810 | 0 | 6,563 | 8,247 | 0 |
| 76 | Washington U. St. Louis | 13,905 | 14,731 | 16,880 | 14,540 | 0 | 7,785 | 6,755 | 0 |
| 77 | Brown U. | 12,924 | 13,359 | 13,546 | 14,204 | 0 | 6,140 | 8,064 | 0 |
| 78 | U. Southern CA | 11,984 | 11,070 | 9,336 | 13,972 | 284 | 10,520 | 2,229 | 939 |
| 79 | NJ Institute of Technology | 8,139 | 9,659 | 10,274 | 13,941 | 0 | 5,375 | 8,566 | 0 |
| 80 | U. Akron all campuses | 10,685 | 11,114 | 11,987 | 13,464 | 0 | 13,169 | 295 | 0 |
| 81 | U. AR main campus | 10,107 | 12,096 | 10,322 | 13,241 | 27 | 6,298 | 6,916 | 0 |
| 82 | U. Southern MS | 8,320 | 9,968 | 9,907 | 13,153 | 0 | 11,840 | 1,313 | 0 |
| 83 | U. OR | 8,280 | 7,423 | 10,360 | 13,089 | 0 | 5,126 | 7,963 | 0 |
| 84 | U. MA Amherst | 32,108 | 30,336 | 17,557 | 12,809 | 3,622 | 4,976 | 3,920 | 291 |
| 85 | Rensselaer Polytechnic Institute | 6,132 | 7,350 | 9,094 | 12,568 | 0 | 5,378 | 7,190 | 0 |
| 86 | U. IL Chicago | 13,534 | 13,219 | 12,700 | 12,008 | 0 | 6,536 | 5,472 | 0 |
| 87 | Clemson U. | 10,835 | 11,416 | 10,376 | 11,975 | 0 | 6,792 | 5,183 | 0 |
| 88 | U. OK all campuses | 13,057 | 13,417 | 12,177 | 11,742 | 0 | 6,661 | 5,081 | 0 |
| 89 | CO State U. | 10,230 | 11,405 | 11,904 | 11,710 | 0 | 8,671 | 2,840 | 199 |
| 90 | U. NV, Reno | 7,786 | 10,393 | 13,952 | 11,640 | 13 | 3,030 | 8,470 | 127 |
| 91 | NY U. | 7,725 | 12,650 | 13,765 | 11,625 | 0 | 6,050 | 5,575 | 0 |

Appendix K. R&D Expenditures in the Physical Sciences at Universities and Colleges, Ranked by all FY 2007 Physical Sciences for the First 100 Institutions: FY 2004–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2004 | 2005 | 2006 | 2007 | | | | |
|------|----------------------------------|-----------|---------|---------|-----------------------|-----------|-----------|---------|------------------------|
| | | | | | All physical sciences | Astronomy | Chemistry | Physics | Physical sciences, nec |
| 92 | U. PR Rio Piedras Campus | 3,426 | 7,338 | 11,238 | 11,436 | 0 | 11,056 | 380 | 0 |
| 93 | U. Rochester | 11,320 | 11,271 | 12,137 | 11,315 | 0 | 4,140 | 7,175 | 0 |
| 94 | IA State U. | 10,306 | 11,302 | 11,010 | 11,026 | 0 | 5,933 | 5,093 | 0 |
| 95 | Carnegie Mellon U. | 17,471 | 11,743 | 12,034 | 10,367 | 6 | 4,515 | 5,669 | 177 |
| 96 | U. TX M. D. Anderson Cancer Ctr. | 8,465 | 9,041 | 10,790 | 10,149 | 0 | 10,149 | 0 | 0 |
| 97 | Kent State U. all campuses | 4,726 | 4,844 | 5,124 | 9,826 | 0 | 2,234 | 2,814 | 4,778 |
| 98 | CUNY The City C. | 9,541 | 10,557 | 10,204 | 9,701 | 0 | 3,097 | 6,604 | 0 |
| 99 | U. AL Huntsville, The | 9,831 | 8,733 | 10,891 | 9,368 | 0 | 4,080 | 5,288 | 0 |
| 100 | U. KS all campuses | 7,817 | 11,198 | 11,660 | 9,131 | 205 | 5,851 | 3,075 | 0 |
| | All other surveyed institutions | 609,606 # | 608,260 | 640,825 | 648,595 | 15,534 | 329,324 | 263,584 | 40,153 |

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

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$101,317 in total R&D expenditures in the physical sciences in FY 2007.

NOTES: Institutions reporting zero expenditures in the ranked total for FY 2007 are not included in this table. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix L: Total and Federally Financed R&D Expenditures in Psychology at Universities and Colleges, Ranked by FY 2007 total for the First 100 Institutions: FY 2004–07

(Dollars in Thousands)

| Rank | Institution | Total | | | | Federally financed | | | |
|------|--|---------|---------|---------|---------|--------------------|---------|---------|---------|
| | | 2004 | 2005 | 2006 | 2007 | 2004 | 2005 | 2006 | 2007 |
| | All institutions | 782,530 | 825,651 | 875,264 | 863,358 | 586,837 | 610,541 | 629,037 | 599,882 |
| 1 | PA State U. all campuses | 18,626 | 22,721 | 22,776 | 22,594 | 11,985 | 11,847 | 14,108 | 15,596 |
| 2 | U. TX M. D. Anderson Cancer Ctr. | 7,966 | 7,851 | 13,636 | 19,741 | 4,984 | 5,226 | 6,637 | 7,791 |
| 3 | NY U. | 14,903 | 14,938 | 14,589 | 17,450 | 12,179 | 12,256 | 12,334 | 14,505 |
| 4 | FL State U. | 8,574 | 12,923 | 15,108 | 16,759 | 4,880 | 9,238 | 9,042 | 10,492 |
| 5 | U. Houston | 5,618 | 13,249 | 9,998 | 15,948 | 4,632 | 6,632 | 6,318 | 8,343 |
| 6 | U. CT all campuses | 12,908 | 15,152 | 14,625 | 15,848 | 10,223 | 12,123 | 11,849 | 11,876 |
| 7 | U. CO all campuses | 9,908 | 11,799 | 14,041 | 15,229 | 8,629 | 10,561 | 12,433 | 12,462 |
| 8 | U. GA | 14,005 | 13,020 | 13,617 | 14,958 | 8,130 | 7,883 | 6,921 | 7,817 |
| 9 | U. Rochester | 14,732 | 13,884 | 14,556 | 14,115 | 10,461 | 10,609 | 11,469 | 10,159 |
| 10 | U. MN all campuses | 12,752 | 13,090 | 13,165 | 13,508 | 8,830 | 8,835 | 8,192 | 7,925 |
| 11 | U. FL | 8,952 | 11,890 | 12,103 | 13,071 | 7,871 | 8,200 | 7,214 | 7,161 |
| 12 | U. IL Urbana-Champaign | 14,265 | 12,594 | 13,511 | 12,723 | 8,754 | 8,235 | 9,115 | 8,102 |
| 13 | U. NE all campuses | 9,650 | 9,691 | 11,663 | 12,718 | 5,539 | 5,346 | 6,688 | 8,408 |
| 14 | Rutgers, The State U. NJ all campuses | 11,378 | 10,773 | 12,717 | 12,573 | 5,318 | 4,643 | 4,063 | 3,824 |
| 15 | IN U. all campuses | 12,234 | 11,152 | 15,732 | 11,803 | 8,089 | 8,968 | 9,415 | 7,704 |
| 16 | U. CA, Los Angeles | 11,982 | 12,773 | 11,546 | 11,718 | 8,990 | 9,845 | 9,035 | 8,913 |
| 17 | AZ State U. | 8,694 | 9,565 | 10,821 | 11,263 | 6,872 | 7,959 | 8,907 | 9,289 |
| 18 | San Diego State U. | 9,020 | 8,776 | 9,268 | 11,055 | 5,347 | 4,850 | 4,952 | 5,473 |
| 19 | U. SC all campuses | 6,162 | 6,246 | 12,118 | 10,922 | 4,685 | 4,324 | 9,411 | 8,623 |
| 20 | Vanderbilt U. | 9,639 | 9,694 | 10,606 | 10,647 | 7,655 | 7,701 | 8,087 | 8,225 |
| 21 | U. MI all campuses | 10,823 | 11,970 | 12,474 | 10,301 | 9,649 | 10,208 | 10,451 | 7,250 |
| 22 | U. CA, Berkeley | 11,531 | 8,805 | 9,501 | 10,268 | 7,944 | 5,551 | 5,758 | 6,087 |
| 23 | U. WA | 8,863 | 9,733 | 10,936 | 9,933 | 8,359 | 8,876 | 9,929 | 8,688 |
| 24 | U. WI Madison | 29,329 | 29,796 | 30,618 | 9,769 | 22,945 | 24,461 | 24,208 | 7,305 |
| 25 | Princeton U. | 9,863 | 8,871 | 8,854 | 9,292 | 7,519 | 7,199 | 6,898 | 7,320 |
| 26 | Temple U. | 10,338 | 12,586 | 10,992 | 9,223 | 6,738 | 8,251 | 6,543 | 6,165 |
| 27 | SUNY Buffalo all campuses | 4,749 | 5,489 | 6,291 | 9,216 | 2,510 | 2,911 | 2,946 | 4,691 |
| 28 | U. TX Austin | 7,560 | 8,693 | 9,093 | 9,108 | 6,931 | 7,900 | 8,141 | 8,255 |
| 29 | Boston U. | 6,622 | 7,439 | 7,687 | 9,058 | 6,601 | 7,298 | 7,478 | 8,845 |
| 30 | U. NM main campus | 5,665 | 10,304 | 10,470 | 8,782 | 4,631 | 8,818 | 8,810 | 7,220 |
| 31 | SUNY Stony Brook all campuses | 3,472 | 5,302 | 7,475 | 8,664 | 2,682 | 4,271 | 4,085 | 4,107 |
| 32 | U. Memphis, The | 11,065 | 11,658 | 11,815 | 8,491 | 5,756 | 6,634 | 5,850 | 3,612 |
| 33 | U. IA | 5,477 | 6,971 | 8,392 | 8,102 | 5,056 | 6,103 | 7,097 | 6,863 |
| 34 | U. KY all campuses | 5,099 | 6,294 | 7,870 | 8,026 | 3,768 | 5,253 | 6,441 | 7,087 |
| 35 | Stanford U. | 8,602 | 7,603 | 6,701 | 7,983 | 6,864 | 6,438 | 5,713 | 6,953 |
| 36 | San Jose State U. | 9,056 | 9,787 | 8,471 | 7,910 | 9,056 | 9,787 | 8,471 | 7,879 |
| 37 | U. OR | 8,135 | 6,914 | 7,854 | 7,896 | 7,496 | 5,971 | 7,104 | 7,088 |
| 38 | U. CA, San Diego | 7,369 | 6,993 | 7,886 | 7,799 | 5,889 | 5,384 | 5,628 | 5,828 |
| 39 | U. Miami | 10,194 | 9,538 | 8,316 | 7,751 | 9,737 | 8,974 | 7,936 | 7,461 |
| 40 | Carnegie Mellon U. | 7,637 | 5,237 | 5,454 | 7,501 | 6,850 | 4,648 | 5,153 | 6,615 |
| 41 | Harvard U. | 8,245 | 7,525 | 7,660 | 7,329 | 7,769 | 7,096 | 7,318 | 6,880 |
| 42 | U. MO-Columbia | 7,273 | 7,647 | 7,246 | 6,832 | 4,941 | 5,234 | 4,912 | 4,578 |
| 43 | U. Southern CA | 4,615 | 4,028 | 5,341 | 6,824 | 3,379 | 3,099 | 4,054 | 5,344 |
| 44 | U. NC Chapel Hill | 6,065 | 5,999 | 5,581 | 6,813 | 5,359 | 4,703 | 4,704 | 5,671 |
| 45 | U. Pittsburgh all campuses | 7,488 | 8,237 | 7,775 | 6,538 | 6,997 | 7,233 | 6,831 | 5,823 |
| 46 | Uniformed Services U. of the Health Sciences | 149 | 86 | 4,541 | 6,319 | 107 | 66 | 2,850 | 3,156 |
| 47 | Johns Hopkins U., The ^a | 5,846 | 5,720 | 7,674 | 6,196 | 5,218 | 5,134 | 6,391 | 5,787 |

Appendix L: Total and Federally Financed R&D Expenditures in Psychology at Universities and Colleges, Ranked by FY 2007 total for the First 100 Institutions: FY 2004–07

(Dollars in Thousands)

| Rank | Institution | Total | | | | Federally financed | | | |
|------|---|--------|--------|--------|-------|--------------------|-------|-------|-------|
| | | 2004 | 2005 | 2006 | 2007 | 2004 | 2005 | 2006 | 2007 |
| 48 | U. PA | 5,122 | 6,080 | 6,267 | 6,173 | 4,889 | 5,537 | 5,535 | 5,104 |
| 49 | U. Chicago | 6,346 | 6,623 | 7,304 | 6,081 | 5,926 | 6,570 | 7,212 | 6,033 |
| 50 | CUNY Hunter C. | 6,133 | 6,977 | 5,556 | 6,066 | 4,617 | 5,055 | 4,290 | 4,703 |
| 51 | U. VA all campuses | 7,287 | 6,802 | 6,880 | 5,949 | 6,430 | 5,991 | 6,229 | 5,475 |
| 52 | Yale U. | 8,249 | 6,873 | 7,847 | 5,935 | 5,666 | 4,610 | 4,640 | 3,583 |
| 53 | U. IL Chicago | 6,626 | 6,671 | 6,562 | 5,926 | 4,154 | 4,481 | 4,177 | 2,920 |
| 54 | OH State U. all campuses | 6,752 | 6,947 | 5,971 | 5,835 | 5,020 | 4,992 | 4,492 | 4,289 |
| 55 | U. CA, Santa Barbara | 3,089 | 3,266 | 3,760 | 5,692 | 2,560 | 2,767 | 3,170 | 3,965 |
| 56 | U. AZ | 4,136 | 4,903 | 7,329 | 5,645 | 2,960 | 3,398 | 3,470 | 3,332 |
| 57 | U. MA Amherst | 5,077 | 5,475 | 5,977 | 5,560 | 3,442 | 3,304 | 3,511 | 3,111 |
| 58 | GA Institute of Technology all campuses | 3,236 | 5,018 | 5,382 | 5,447 | 1,833 | 1,979 | 2,473 | 2,426 |
| 59 | Syracuse U. all campuses | 3,155 | 4,023 | 4,644 | 5,403 | 3,135 | 3,975 | 4,555 | 5,071 |
| 60 | Washington U. St. Louis | 4,475 | 6,356 | 5,948 | 5,367 | 3,030 | 4,780 | 4,369 | 4,118 |
| 61 | MI State U. | 6,472 | 6,861 | 6,818 | 5,114 | 3,832 | 3,456 | 3,773 | 3,304 |
| 62 | Cornell U. all campuses | 5,388 | 6,464 | 5,875 | 4,994 | 2,462 | 2,670 | 2,939 | 2,360 |
| 63 | Wayne State U. | 3,533 | 4,705 | 4,713 | 4,880 | 2,214 | 3,753 | 2,922 | 3,470 |
| 64 | Tufts U. | 4,042 | 4,677 | 4,966 | 4,839 | 2,104 | 2,936 | 2,682 | 2,106 |
| 65 | U. South FL | 3,164 | 7,255 | 7,631 | 4,816 | 2,327 | 4,515 | 4,496 | 2,457 |
| 66 | GA State U. | 11,634 | 11,182 | 11,747 | 4,772 | 8,793 | 8,570 | 7,902 | 2,793 |
| 67 | U. Louisville | 3,163 | 3,808 | 4,348 | 4,729 | 2,512 | 3,088 | 3,690 | 4,095 |
| 68 | MS State U. | 2,099 | 4,993 | 7,805 | 4,478 | 1,142 | 3,288 | 6,105 | 2,355 |
| 69 | CA State U. San Bernardino | 1,245 | 1,892 | 687 | 4,454 | 0 | 20 | 392 | 498 |
| 70 | SUNY Binghamton | 3,890 | 3,503 | 4,404 | 4,401 | 2,599 | 2,385 | 2,680 | 3,097 |
| 71 | U. MD College Park | 4,798 | 4,844 | 4,310 | 4,399 | 4,634 | 4,566 | 4,019 | 4,050 |
| 72 | Teachers C. Columbia U. | 3,983 | 4,072 | 4,032 | 4,352 | 3,149 | 3,250 | 3,734 | 3,816 |
| 73 | U. CA, Irvine | 3,508 | 3,960 | 4,380 | 4,279 | 2,122 | 2,145 | 2,487 | 2,108 |
| 74 | Dartmouth C. | 6,070 | 5,594 | 7,967 | 4,138 | 3,907 | 3,601 | 5,501 | 2,639 |
| 75 | U. MA Boston | 1,268 | 1,374 | 1,758 | 4,132 | 992 | 916 | 1,106 | 1,898 |
| 76 | Columbia U. in the City of NY | 3,865 | 4,183 | 3,053 | 3,973 | 3,756 | 4,113 | 2,870 | 3,743 |
| 77 | U. of Notre Dame | 3,932 | 4,029 | 4,756 | 3,854 | 3,615 | 3,922 | 4,639 | 3,790 |
| 78 | VA Polytechnic Institute and State U. | 2,813 | 2,307 | 2,276 | 3,840 | 2,014 | 1,454 | 1,196 | 2,034 |
| 79 | Northwestern U. | 4,098 | 3,755 | 3,733 | 3,820 | 3,312 | 2,896 | 2,890 | 2,503 |
| 80 | CA State U. Northridge | 2,113 | 2,422 | 911 | 3,814 | 817 | 920 | 788 | 651 |
| 81 | Purdue U. all campuses | 5,494 | 6,198 | 4,585 | 3,736 | 3,748 | 4,416 | 3,534 | 3,034 |
| 82 | NM State U. main campus | 1,026 | 909 | 2,622 | 3,495 | 912 | 770 | 2,126 | 3,050 |
| 83 | U. DE | 3,328 | 3,817 | 3,729 | 3,366 | 2,853 | 3,098 | 2,876 | 2,426 |
| 84 | Brandeis U. | 3,208 | 2,765 | 2,972 | 3,345 | 2,709 | 2,472 | 2,610 | 2,911 |
| 85 | VA Commonwealth U. | 4,875 | 5,126 | 4,161 | 3,209 | 3,041 | 3,617 | 2,983 | 2,429 |
| 86 | U. AL Birmingham, The | 7,514 | 8,414 | 6,173 | 3,199 | 6,920 | 8,374 | 6,071 | 3,027 |
| 87 | UT State U. | 3,925 | 3,384 | 3,637 | 3,157 | 2,379 | 1,746 | 2,275 | 2,153 |
| 88 | Gallaudet U. | 1,355 | 1,495 | 1,476 | 3,003 | 1,355 | 1,495 | 1,476 | 3,003 |
| 89 | TX A&M U. | 2,621 | 2,940 | 2,984 | 2,931 | 1,820 | 2,054 | 2,058 | 1,682 |
| 90 | U. CA, Davis | 1,625 | 2,000 | 1,745 | 2,849 | 797 | 996 | 847 | 1,243 |
| 91 | Duke U. | 1,939 | 2,527 | 3,004 | 2,847 | 1,209 | 1,514 | 1,941 | 1,795 |
| 92 | U. TX Dallas | 461 | 545 | 3,698 | 2,833 | 67 | 402 | 3,153 | 2,390 |
| 93 | George Mason U. | 2,751 | 2,809 | 3,410 | 2,825 | 1,610 | 2,054 | 2,069 | 2,012 |
| 94 | Kent State U. all campuses | 1,584 | 1,766 | 1,548 | 2,822 | 1,236 | 1,189 | 1,255 | 1,822 |
| 95 | CO State U. | 3,784 | 4,812 | 3,330 | 2,723 | 3,119 | 3,856 | 2,954 | 2,370 |
| 96 | U. OK all campuses | 1,293 | 1,746 | 2,161 | 2,690 | 821 | 1,192 | 1,166 | 2,110 |

Appendix L: Total and Federally Financed R&D Expenditures in Psychology at Universities and Colleges, Ranked by FY 2007 total for the First 100 Institutions: FY 2004–07

(Dollars in Thousands)

| Rank | Institution | Total | | | | Federally financed | | | |
|------|---------------------------------|-----------|-----------|-----------|-----------|--------------------|----------|----------|--------|
| | | 2004 | 2005 | 2006 | 2007 | 2004 | 2005 | 2006 | 2007 |
| 97 | U. LA Lafayette | 344 | 259 | 1,632 | 2,681 | 40 | 17 | 402 | 1,210 |
| 98 | Wichita State U. | 1,094 | 290 | 2,622 | 2,535 | 718 | 135 | 1,699 | 1,700 |
| 99 | U. CA, Riverside | 1,950 | 2,123 | 1,834 | 2,517 | 1,770 | 1,905 | 1,581 | 2,318 |
| 100 | U. Denver | 2,296 | 2,251 | 2,124 | 2,501 | 2,050 | 2,032 | 1,937 | 2,321 |
| | All other surveyed institutions | 136,204 # | 130,575 # | 131,056 # | 134,370 # | 102,894 # | 94,522 # | 91,200 # | 91,733 |

e = estimated; data were not provided by institution; prior-year data were used or current-year estimates were reported. i = imputed. ne = not eligible; institution did not meet the criteria for inclusion.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$0 in both total and federally financed R&D expenditures in psychology in FY 2007.

NOTES: Institutions reporting zero expenditures in the ranked total for FY 2007 are not included in this table. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix M. R&D Expenditures in the Social Sciences at Universities and Colleges, Ranked by all FY 2007 Social Sciences for the First 100 Institutions: FY 2004–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2004 | 2005 | 2006 | 2007 | | | | Social sciences, nec |
|------|---|-----------|-----------|-----------|---------------------|-----------|--------------------|-----------|----------------------|
| | | | | | All social sciences | Economics | Political sciences | Sociology | |
| | All institutions | 1,675,804 | 1,684,816 | 1,702,092 | 1,781,410 | 349,468 | 337,445 | 393,404 | 701,093 |
| 1 | U. MI all campuses | 92,602 | 89,909 | 89,913 | 93,719 | 15,750 | 16,426 | 16,779 | 44,764 |
| 2 | U. MD College Park | 79,872 | 76,411 | 82,936 | 80,537 | 5,388 | 13,671 | 2,757 | 58,721 |
| 3 | U. CA, Berkeley | 49,840 | 48,971 | 49,930 | 54,474 | 18,716 | 6,457 | 8,366 | 20,935 |
| 4 | OH State U. all campuses | 32,793 | 33,921 | 40,519 | 46,746 | 19,479 | 3,637 | 7,980 | 15,650 |
| 5 | U. WI Madison | 41,686 | 40,905 | 41,254 | 41,626 | 6,941 | 3,818 | 11,912 | 18,955 |
| 6 | U. GA | 39,138 | 38,593 | 37,944 | 39,957 | 15,009 | 5,110 | 3,124 | 16,714 |
| 7 | U. NC Chapel Hill | 34,016 | 34,936 | 26,700 | 37,092 | 66 | 28 | 14,306 | 22,692 |
| 8 | U. CA, Los Angeles | 36,461 | 34,141 | 35,661 | 36,093 | 1,031 | 242 | 4,811 | 30,009 |
| 9 | U. PA | 38,184 | 36,185 | 30,809 | 33,059 | 2,653 | 12,443 | 6,482 | 11,481 |
| 10 | MI State U. | 27,952 | 28,063 | 34,646 | 31,722 | 12,256 | 3,752 | 3,023 | 12,691 |
| 11 | Cornell U. all campuses | 22,395 | 25,750 | 26,863 | 29,431 | 7,608 | 3,164 | 3,678 | 14,981 |
| 12 | U. MN all campuses | 20,640 | 21,164 | 25,285 | 27,786 | 10,057 | 4,618 | 9,843 | 3,268 |
| 13 | U. TX Austin | 18,156 | 29,057 | 27,880 | 26,486 | 405 | 3,239 | 6,876 | 15,966 |
| 14 | PA State U. all campuses | 25,994 | 24,648 | 24,533 | 25,606 | 1,624 | 6,310 | 17,672 | 0 |
| 15 | Duke U. | 26,865 | 25,728 | 23,312 | 25,470 | 2,621 | 15,003 | 5,485 | 2,361 |
| 16 | Rutgers, The State U. NJ all campuses | 25,450 | 27,271 | 26,160 | 25,226 | 820 | 5,343 | 6,161 | 12,902 |
| 17 | IN U. all campuses | 32,037 | 24,596 | 31,397 | 23,789 | 2,487 | 10,132 | 4,329 | 6,841 |
| 18 | Harvard U. | 17,914 | 18,364 | 22,645 | 23,554 | 4,979 | 10,542 | 590 | 7,443 |
| 19 | George Mason U. | 9,402 | 10,151 | 7,122 | 22,201 | 1,581 | 17,144 | 767 | 2,709 |
| 20 | U. CA, Davis | 17,683 | 22,262 | 21,085 | 22,074 | 5,089 | 2,912 | 1,608 | 12,465 |
| 21 | U. IL Urbana-Champaign | 27,373 | 22,623 | 21,107 | 21,043 | 7,460 | 1,074 | 974 | 11,535 |
| 22 | AZ State U. | 10,878 | 13,222 | 19,957 | 20,536 | 2,064 | 2,560 | 7,255 | 8,657 |
| 23 | WA State U. | 11,317 | 17,735 | 15,948 | 20,259 | 9,388 | 1,305 | 3,135 | 6,431 |
| 24 | U. AZ | 18,212 | 19,038 | 23,450 | 19,747 | 4,569 | 235 | 10,637 | 4,306 |
| 25 | U. WA | 34,519 | 16,232 | 17,564 | 19,216 | 9 | 10,722 | 4,930 | 3,555 |
| 26 | Purdue U. all campuses | 16,783 | 17,806 | 18,354 | 19,163 | 9,824 | 389 | 3,744 | 5,206 |
| 27 | Princeton U. | 27,524 | 29,601 | 24,469 | 19,139 | 1,436 | 16,055 | 962 | 686 |
| 28 | GA Institute of Technology all campuses | 11,010 | 10,090 | 13,089 | 18,880 | 13,502 | 3,062 | 23 | 2,293 |
| 29 | Columbia U. in the City of NY | 10,196 | 11,229 | 14,344 | 17,554 | 1,839 | 1,435 | 14,280 | 0 |
| 30 | Brandeis U. | 12,757 | 14,264 | 16,249 | 17,356 | 183 | 135 | 14,385 | 2,653 |
| 31 | IA State U. | 17,597 | 16,384 | 18,430 | 17,234 | 3,347 | 325 | 13,446 | 116 |
| 32 | FL State U. | 15,029 | 14,626 | 16,481 | 17,037 | 608 | 7,725 | 3,323 | 5,381 |
| 33 | U. FL | 10,482 | 14,457 | 15,743 | 16,701 | 8,983 | 190 | 1,384 | 6,144 |
| 34 | U. NE all campuses | 14,287 | 14,916 | 15,450 | 15,582 | 5,351 | 2,962 | 3,546 | 3,723 |
| 35 | U. Southern ME | 8,853 | 11,038 | 13,221 | 13,897 | 2,556 | 8,306 | 0 | 3,035 |
| 36 | NY U. | 9,118 | 8,864 | 10,832 | 13,881 | 1,611 | 6,879 | 5,391 | 0 |
| 37 | Stanford U. | 10,895 | 13,864 | 12,352 | 13,407 | 1,307 | 30 | 912 | 11,158 |
| 38 | NC State U. | 7,265 | 7,299 | 10,406 | 12,644 | 4,066 | 66 | 4,741 | 3,771 |
| 39 | U. MO-Columbia | 14,648 | 12,346 | 10,657 | 12,635 | 7,948 | 4 | 417 | 4,266 |
| 40 | GA State U. | 10,447 | 10,750 | 10,421 | 12,571 | 8,066 | 812 | 737 | 2,956 |
| 41 | Clemson U. | 11,158 | 11,207 | 11,957 | 12,422 | 3,791 | 1,258 | 1,081 | 6,292 |
| 42 | ND State U. all campuses | 9,436 | 10,806 | 11,598 | 12,324 | 3,567 | 83 | 28 | 8,646 |
| 43 | TX A&M U. | 7,937 | 8,759 | 9,617 | 11,729 | 2,742 | 1,400 | 1,081 | 6,506 |
| 44 | U. CA, San Diego | 12,825 | 12,607 | 11,690 | 11,522 | 1,396 | 4,373 | 4,952 | 801 |
| 45 | Brown U. | 7,156 | 8,380 | 12,937 | 11,366 | 2,611 | 1,143 | 5,110 | 2,502 |

Appendix M. R&D Expenditures in the Social Sciences at Universities and Colleges, Ranked by all FY 2007 Social Sciences for the First 100 Institutions: FY 2004–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2004 | 2005 | 2006 | 2007 | | | | Social sciences, nec |
|------|---------------------------------------|---------|--------|--------|---------------------|-----------|--------------------|-----------|----------------------|
| | | | | | All social sciences | Economics | Political sciences | Sociology | |
| 46 | U. CA, Irvine | 9,303 | 10,979 | 10,248 | 10,551 | 282 | 4,779 | 1,143 | 4,347 |
| 47 | U. KS all campuses | 9,314 | 9,459 | 10,417 | 10,504 | 680 | 2,605 | 5,188 | 2,031 |
| 48 | U. IL Chicago | 15,037 | 11,748 | 11,004 | 10,471 | 196 | 71 | 3,018 | 7,186 |
| 49 | Northwestern U. | 9,450 | 9,292 | 7,936 | 9,610 | 1,356 | 5,683 | 879 | 1,692 |
| 50 | U. SC all campuses | 7,715 | 7,391 | 9,586 | 9,574 | 1,702 | 2,522 | 850 | 4,500 |
| 51 | U. South FL | 3,567 | 5,158 | 8,868 | 9,544 | 901 | 1,831 | 5,490 | 1,322 |
| 52 | U. TN all campuses | 11,006 | 10,980 | 11,440 | 9,187 | 5,549 | 15 | 2,577 | 1,046 |
| 53 | Boston C. | 5,610 e | 7,145 | 7,892 | 9,029 | 4,731 | 39 | 829 | 3,430 |
| 54 | U. Memphis, The | 9,193 | 9,820 | 8,642 | 8,999 | 3,997 | 382 | 2,585 | 2,035 |
| 55 | SUNY Albany | 13,158 | 13,335 | 10,975 | 8,755 | 4 | 758 | 4,207 | 3,786 |
| 56 | VA Polytechnic Institute and State U. | 6,501 | 8,399 | 8,278 | 8,376 | 2,248 | 1,283 | 1,398 | 3,447 |
| 57 | U. CA, Santa Barbara | 11,807 | 12,064 | 7,565 | 8,266 | 274 | 94 | 130 | 7,768 |
| 58 | Cleveland State U. | 6,387 | 5,227 | 5,623 | 8,092 | 3 | 3 | 18 | 8,068 |
| 59 | Carnegie Mellon U. | 11,799 | 10,569 | 8,656 | 8,051 | 1,707 | 2,050 | 528 | 3,766 |
| 60 | U. MA Boston | 8,630 | 10,236 | 10,114 | 7,956 | 729 | 1,020 | 273 | 5,934 |
| 61 | U. IA | 5,240 | 5,511 | 6,214 | 7,932 | 322 | 4,167 | 751 | 2,692 |
| 62 | VA Commonwealth U. | 1,290 | 1,654 | 1,705 | 7,761 | 122 | 7,548 | 0 | 91 |
| 63 | U. Southern CA | 11,347 | 10,037 | 7,715 | 7,716 | 2,045 | 863 | 2,040 | 2,768 |
| 64 | George Washington U. | 11,472 | 9,156 | 11,842 | 7,390 | 362 | 4,514 | 1,176 | 1,338 |
| 65 | Georgetown U. | 10,649 | 9,978 | 8,708 | 7,372 | 188 | 6,664 | 0 | 520 |
| 66 | U. KY all campuses | 7,889 | 6,939 | 7,870 | 7,244 | 3,612 | 1,453 | 341 | 1,838 |
| 67 | U. ME | 4,772 | 2,673 | 7,731 | 7,243 | 22 | 12 | 238 | 6,971 |
| 68 | Washington U. St. Louis | 4,049 | 4,999 | 5,985 | 7,216 | 89 | 597 | 6,427 | 103 |
| 69 | U. CO all campuses | 9,923 | 10,031 | 8,288 | 7,141 | 620 | 573 | 4,237 | 1,711 |
| 70 | MS State U. | 6,580 | 6,098 | 4,948 | 7,100 | 421 | 890 | 1,026 | 4,763 |
| 71 | U. NM main campus | 12,512 | 4,905 | 6,108 | 6,973 | 804 | 643 | 1,257 | 4,269 |
| 72 | U. OR | 4,192 | 4,366 | 5,037 | 6,941 | 1,234 | 2,988 | 215 | 2,504 |
| 73 | U. MD Baltimore County | 4,290 | 7,425 | 6,226 | 6,924 | 551 | 3,898 | 2,141 | 334 |
| 74 | LA State U. all campuses | 10,171 | 10,677 | 7,348 | 6,867 | 4,451 | 342 | 751 | 1,323 |
| 75 | TX Tech U. | 7,057 | 7,825 | 7,176 | 6,802 | 2,160 | 1,186 | 1,777 | 1,679 |
| 76 | U. DE | 6,313 | 6,394 | 6,567 | 6,490 | 1,288 | 0 | 3,566 | 1,636 |
| 77 | U. OK all campuses | 8,549 | 8,146 | 7,334 | 6,490 | 562 | 2,000 | 1,278 | 2,650 |
| 78 | U. TX M. D. Anderson Cancer Ctr. | 463 | 2,817 | 5,666 | 6,436 | 0 | 0 | 6,436 | 0 |
| 79 | MA Institute of Technology | 6,195 | 6,945 | 7,098 | 6,405 | 2,032 | 3,087 | 8 | 1,278 |
| 80 | U. HI Manoa | 7,407 | 5,698 | 6,740 | 6,354 | 22 | 4 | 332 | 5,996 |
| 81 | FL International U. | 13,846 | 16,708 | 4,600 | 6,313 | 77 | 1,843 | 254 | 4,139 |
| 82 | U. of the VI | 1,811 | 4,638 | 4,950 | 6,278 | 0 | 0 | 0 | 6,278 |
| 83 | Teachers C. Columbia U. | 3,641 | 4,059 | 4,320 | 6,223 | 4,044 | 0 | 0 | 2,179 |
| 84 | Portland State U. | 7,689 e | 10,590 | 6,488 | 6,201 | 313 | 338 | 897 | 4,653 |
| 85 | SUNY Buffalo all campuses | 4,566 | 3,978 | 3,374 | 5,945 | 1,191 | 331 | 363 | 4,060 |
| 86 | SUNY Binghamton | 3,990 | 5,554 | 5,129 | 5,925 | 329 | 722 | 4,211 | 663 |
| 87 | Auburn U. all campuses | 2,223 | 2,495 | 2,090 | 5,918 | 145 | 0 | 3,071 | 2,702 |
| 88 | San Diego State U. | 5,004 | 6,422 | 7,038 | 5,913 | 357 | 1,651 | 916 | 2,989 |
| 89 | U. NH | 4,299 | 4,367 | 4,846 | 5,903 | 1,081 | 26 | 3,741 | 1,055 |
| 90 | Case Western Reserve U. | 1,432 | 1,708 | 1,976 | 5,778 | 459 | 0 | 1,003 | 4,316 |
| 91 | Tufts U. | 5,956 | 8,419 | 4,472 | 5,764 | 104 | 4,517 | 6 | 1,137 |
| 92 | U. CT all campuses | 6,864 | 7,813 | 6,352 | 5,737 | 1,361 | 1,271 | 2,255 | 850 |

Appendix M. R&D Expenditures in the Social Sciences at Universities and Colleges, Ranked by all FY 2007 Social Sciences for the First 100 Institutions: FY 2004–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2004 | 2005 | 2006 | 2007 | | | | |
|------|---------------------------------|-----------|---------|---------|---------------------|-----------|--------------------|-----------|----------------------|
| | | | | | All social sciences | Economics | Political sciences | Sociology | Social sciences, nec |
| 93 | Wayne State U. | 6,425 | 5,923 | 6,028 | 5,584 | 37 | 25 | 413 | 5,109 |
| 94 | OK State U. all campuses | 7,519 | 6,140 | 5,260 | 5,475 | 3,052 | 172 | 542 | 1,709 |
| 95 | Vanderbilt U. | 5,330 | 3,375 | 4,137 | 5,248 | 183 | 4,766 | 50 | 249 |
| 96 | SUNY Stony Brook all campuses | 4,150 | 2,854 | 3,939 | 5,190 | 225 | 437 | 3,233 | 1,295 |
| 97 | U. of Notre Dame | 4,531 | 4,288 | 6,793 | 4,999 | 183 | 931 | 2,606 | 1,279 |
| 98 | Naval Postgraduate School | 11,962 i | 2,927 | 3,061 | 4,835 | 130 | 4,017 | 114 | 574 |
| 99 | U. WI Milwaukee | 7,284 | 6,247 | 6,071 | 4,814 | 565 | 16 | 533 | 3,700 |
| 100 | Northeastern U. | 2,665 | 3,325 | 3,496 | 4,790 | 1,038 | 1,331 | 399 | 2,022 |
| | All other surveyed institutions | 248,998 # | 259,741 | 251,205 | 246,322 | 46,544 | 33,968 | 62,664 | 103,146 |

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

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$213,000 in total R&D expenditures in the social sciences in FY 2007.

NOTES: Institutions reporting zero expenditures in the ranked total for FY 2007 are not included in this table. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2007 Non-S&E Fields in First 300 Institutions: FY 2005–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2007 Non-S&E Fields | | | | | | | | | | |
|------|-----------------------------|---------------------|-----------|--------------------|-------------------------|--|-----------|------------|--------|-------------|----------------------------|----------------------|
| | | 2005 | 2006 | All non-S&E fields | Business and management | Communication, journalism, and library science | Education | Humanities | Law | Social work | Visual and performing arts | Other non-S&E Fields |
| | All institutions | 1,748,738 | 1,882,541 | 2,036,966 | 265,429 | 86,684 | 900,845 | 241,625 | 72,362 | 93,194 | 44,369 | 332,348 |
| 1 | U. WI Madison | 77,623 | 72,892 | 71,547 | 19,609 | 2,997 | 26,431 | 18,251 | 1,341 | 400 | 194 | 2,324 |
| 2 | U. South FL | 17,391 | 18,863 | 64,508 | 8,319 | 6,332 | 38,290 | 1,555 | 0 | 7,797 | 1,865 | 350 |
| 3 | Purdue U. all campuses | 42,852 | 47,468 | 57,493 | 17,355 | 982 | 7,325 | 2,021 | 0 | 0 | 244 | 29,566 |
| 4 | U. TX Austin | 42,132 | 45,560 | 56,021 | 5,020 | 4,867 | 27,700 | 841 | 238 | 4,944 | 353 | 12,058 |
| 5 | U. FL | 33,487 | 34,258 | 43,121 | 2,058 | 1,830 | 3,852 | 1,250 | 212 | 31 | 447 | 33,441 |
| 6 | Harvard U. | 51,023 | 53,831 | 42,644 | 0 | 395 | 8,832 | 913 | 2,739 | 0 | 200 | 29,565 |
| 7 | OR State U. | 37,689 | 38,087 | 42,527 | 0 | 232 | 819 | 86 | 0 | 0 | 0 | 41,390 |
| 8 | U. MI all campuses | 34,817 | 37,041 | 39,723 | 9,005 | 555 | 19,522 | 2,159 | 1,999 | 5,644 | 698 | 141 |
| 9 | MI State U. | 28,072 | 30,748 | 34,759 | 3,596 | 2,265 | 20,690 | 1,589 | 0 | 345 | 161 | 6,113 |
| 10 | U. CA, Los Angeles | NA | 29,859 | 31,414 | 5,887 | 356 | 19,153 | 4,592 | 822 | 0 | 604 | 0 |
| 11 | Northwestern U. | 26,284 | 29,797 | 29,715 | 19,367 | 1,874 | 4,552 | 1,219 | 1,974 | 0 | 729 | 0 |
| 12 | U. WA | NA | 30,701 | 29,628 | 462 | 63 | 10,872 | 3,328 | 288 | 14,267 | 348 | 0 |
| 13 | U. Central FL | 18,997 | 14,883 | 29,545 | 9,875 | 0 | 16,761 | 815 | 29 | 0 | 93 | 1,972 |
| 14 | George Washington U. | 22,690 | 21,949 | 23,303 | 101 | 0 | 19,416 | 1,199 | 2,587 | 0 | 0 | 0 |
| 15 | MA Institute of Technology | 16,265 | 22,595 | 23,269 | 13,764 | 222 | 5,086 | 1,845 | 0 | 0 | 263 | 2,089 |
| 16 | Brown U. | 24,657 | 37,784 | 23,004 | 0 | 647 | 6,435 | 12,194 | 0 | 0 | 2,640 | 1,088 |
| 17 | U. CA, Santa Cruz | NA | 20,332 | 22,540 | 0 | 77 | 20,338 | 1,329 | 0 | 0 | 796 | 0 |
| 18 | NY U. | 33,816 | 19,858 | 21,861 | 2,236 | 2,180 | 8,741 | 673 | 1,400 | 630 | 322 | 5,679 |
| 19 | FL State U. | 35,110 | 24,224 | 21,745 | 1,832 | 834 | 15,500 | 776 | 1,135 | 864 | 804 | 0 |
| 20 | TX A&M U. | 14,527 | 15,832 | 21,743 | 4,392 | 148 | 15,947 | 1,125 | 130 | 0 | 1 | 0 |
| 21 | Old Dominion U. | 9,950 | 15,391 | 21,415 | 3,990 | 148 | 13,348 | 2,163 | 0 | 0 | 1,460 | 306 |
| 22 | U. Southern CA | 25,068 | 25,523 | 20,328 | 1,031 | 3,424 | 4,690 | 6,003 | 1,663 | 2,430 | 1,087 | 0 |
| 23 | U. PA | 22,404 | 20,391 | 19,858 | 2,070 | 3,145 | 11,778 | 604 | 322 | 1,939 | 0 | 0 |
| 24 | U. GA | 20,661 | 18,920 | 19,323 | 118 | 642 | 10,079 | 2,701 | 1,869 | 0 | 3,914 | 0 |
| 25 | U. IL Urbana-Champaign | 24,969 | 18,550 | 18,457 | 1,591 | 2,878 | 5,908 | 2,132 | 516 | 4,401 | 757 | 274 |
| 26 | U. CA, Berkeley | NA | 17,802 | 17,887 | 690 | 62 | 10,349 | 2,754 | 3,674 | 0 | 358 | 0 |
| 27 | Southern IL U. Edwardsville | 19,031 | 18,720 | 17,746 | 638 | 165 | 14,704 | 92 | 0 | 191 | 499 | 1,457 |
| 28 | U. KS all campuses | 18,180 | 18,821 | 17,406 | 265 | 141 | 14,841 | 1,185 | 30 | 568 | 228 | 148 |
| 29 | U. KY all campuses | 13,247 | 13,688 | 17,229 | 1,219 | 598 | 5,821 | 526 | 57 | 522 | 423 | 8,063 |
| 30 | OH State U. all campuses | 34,360 | 10,683 | 17,118 | 147 | 134 | 9,750 | 1,903 | 101 | 0 | 340 | 4,743 |
| 31 | FL International U. | 11,042 | 21,130 | 17,112 | 831 | 3,573 | 6,287 | 3,184 | 560 | 0 | 711 | 1,966 |
| 32 | VA Commonwealth U. | 15,696 | 18,492 | 16,744 | 140 | 119 | 13,793 | 482 | 0 | 461 | 134 | 1,615 |
| 33 | Vanderbilt U. | 6,708 | 12,133 | 16,601 | 81 | 2,284 | 13,214 | 580 | 432 | 0 | 9 | 1 |
| 34 | U. MO-Columbia | 13,616 | 15,930 | 15,775 | 342 | 2,223 | 4,300 | 391 | 30 | 380 | 21 | 8,088 |
| 35 | U. MN all campuses | 12,822 | 15,041 | 15,297 | 180 | 467 | 7,653 | 2,074 | 1,036 | 934 | 536 | 2,417 |
| 36 | Stanford U. | 13,147 | 13,067 | 14,986 | 1,670 | 1,106 | 11,516 | 388 | 97 | 0 | 0 | 209 |
| 37 | GA State U. | 11,389 | 11,934 | 14,513 | 3,086 | 159 | 5,488 | 768 | 929 | 1,963 | 201 | 1,919 |
| 38 | U. NE all campuses | 14,291 | 13,680 | 14,372 | 2,954 | 373 | 2,392 | 5,781 | 2,501 | 4 | 132 | 235 |
| 39 | Emory U. | 3,489 | 3,878 | 14,120 | 2,432 | 206 | 511 | 2,884 | 599 | 144 | 68 | 7,276 |
| 40 | AZ State U. | 10,503 | 9,441 | 13,702 | 1,082 | 313 | 5,249 | 2,799 | 71 | 1,424 | 85 | 2,679 |
| 41 | San Jose State U. | 15,738 | 14,580 | 13,015 | 1,785 | 5 | 2,369 | 259 | 0 | 1,403 | 182 | 7,012 |
| 42 | PA State U. all campuses | 12,147 | 12,452 | 12,987 | 6,454 | 1,126 | 3,172 | 1,219 | 265 | 0 | 751 | 0 |
| 43 | U. Memphis, The | 18,544 | 12,971 | 12,905 | 1,372 | 343 | 8,848 | 1,141 | 0 | 0 | 937 | 264 |
| 44 | U. AR main campus | 9,836 | 10,338 | 12,664 | 1,089 | 96 | 5,503 | 2,663 | 815 | 289 | 79 | 2,130 |
| 45 | U. CO all campuses | 6,174 | 6,812 | 12,556 | 1,659 | 286 | 5,953 | 91 | 80 | 1,565 | 19 | 2,903 |
| 46 | U. WI Milwaukee | 10,226 | 11,186 | 12,500 | 3,254 | 414 | 6,096 | 1,157 | 0 | 441 | 14 | 1,124 |

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2007 Non-S&E Fields in First 300 Institutions: FY 2005–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2007 Non-S&E Fields | | | | | | | | | | Other non-S&E Fields |
|------|---------------------------------------|---------------------|--------|--------------------|-------------------------|--|-----------|------------|-------|-------------|----------------------------|----------------------|
| | | 2005 | 2006 | All non-S&E fields | Business and management | Communication, journalism, and library science | Education | Humanities | Law | Social work | Visual and performing arts | |
| 47 | Johns Hopkins U., The ^a | 14,634 | 12,089 | 12,289 | 0 | 0 | 0 | 12,289 | 0 | 0 | 0 | 0 |
| 48 | U. Louisville | 11,595 | 12,373 | 12,208 | 595 | 135 | 2,487 | 248 | 203 | 977 | 58 | 7,505 |
| 49 | Rutgers, The State U. NJ all campuses | 14,072 | 12,825 | 12,030 | 437 | 1,540 | 7,091 | 596 | 6 | 598 | 66 | 1,696 |
| 50 | U. MD College Park | 23,813 | 14,745 | 11,936 | 1,192 | 1,103 | 7,231 | 2,254 | 0 | 0 | 156 | 0 |
| 51 | IN U. all campuses | 9,341 | 23,208 | 11,909 | 744 | 3,449 | 5,241 | 149 | 32 | 185 | 1,074 | 1,035 |
| 52 | U. CA, Riverside | NA | 10,783 | 11,903 | 37 | 0 | 6,121 | 3,541 | 0 | 0 | 63 | 2,141 |
| 53 | U. IA | 8,899 | 9,812 | 11,662 | 1,495 | 610 | 2,801 | 2,961 | 2,618 | 0 | 455 | 722 |
| 54 | U. MA Boston | 1,270 | 1,291 | 11,489 | 299 | 50 | 7,646 | 428 | 46 | 0 | 80 | 2,940 |
| 55 | LA State U. all campuses | 4,908 | 9,770 | 10,652 | 599 | 266 | 784 | 3,071 | 1,000 | 989 | 186 | 3,757 |
| 56 | U. OK all campuses | 8,773 | 7,630 | 10,629 | 103 | 545 | 5,170 | 947 | 0 | 0 | 0 | 3,864 |
| 57 | Princeton U. | 10,343 | 6,983 | 10,213 | 0 | 148 | 519 | 8,778 | 0 | 0 | 385 | 383 |
| 58 | U. West FL | 9,317 | 8,947 | 10,063 | 6,098 | 0 | 3,921 | 0 | 0 | 0 | 0 | 44 |
| 59 | C. of William and Mary all campuses | 7,721 | 8,788 | 10,040 | 542 | 0 | 8,524 | 103 | 803 | 0 | 15 | 53 |
| 60 | U. OR | 8,401 | 9,449 | 9,668 | 0 | 0 | 9,513 | 155 | 0 | 0 | 0 | 0 |
| 61 | Polytechnic U. | 9,550 | 9,850 | 9,550 | 0 | 0 | 9,025 | 525 | 0 | 0 | 0 | 0 |
| 62 | CA State U. Northridge | 12,499 | 9,650 | 9,454 | 856 | 28 | 7,158 | 170 | 0 | 685 | 0 | 557 |
| 63 | U. CA, Santa Barbara | NA | 5,428 | 9,300 | 3,933 | 123 | 3,431 | 1,145 | 9 | 0 | 659 | 0 |
| 64 | U. MS all campuses | 9,437 | 11,558 | 9,278 | 34 | 26 | 724 | 1,449 | 2,080 | 14 | 16 | 4,935 |
| 65 | U. CT all campuses | 3,210 | 10,090 | 9,095 | 1,328 | 1,312 | 2,153 | 966 | 11 | 3,051 | 274 | 0 |
| 66 | San Diego State U. | 9,712 | 9,621 | 8,876 | 2,881 | 527 | 1,624 | 2,465 | 0 | 478 | 597 | 304 |
| 67 | U. HI Hilo | 7,057 | 10,721 | 8,748 | 4 | 0 | 8,215 | 31 | 0 | 0 | 0 | 498 |
| 68 | Stevens Institute of Technology | 8,062 | 7,752 | 8,699 | 613 | 0 | 8,086 | 0 | 0 | 0 | 0 | 0 |
| 69 | Western MI U. | 7,283 | 7,465 | 8,597 | 17 | 181 | 7,527 | 428 | 0 | 3 | 4 | 437 |
| 70 | SUNY Buffalo all campuses | 8,063 | 6,848 | 8,580 | 536 | 136 | 4,442 | 302 | 69 | 504 | 6 | 2,585 |
| 71 | FL Gulf Coast U. | 8,982 | 9,200 | 8,326 | 664 | 1,949 | 5,187 | 0 | 0 | 7 | 0 | 519 |
| 72 | U. LA Lafayette | 7,519 | 8,119 | 8,128 | 2,730 | 560 | 2,482 | 1,932 | 0 | 15 | 396 | 13 |
| 73 | U. Cincinnati all campuses | 10,077 | 10,665 | 8,098 | 91 | 145 | 4,727 | 3,009 | 0 | 0 | 126 | 0 |
| 74 | MT State U. Bozeman | 8,723 | 9,106 | 7,834 | 82 | 142 | 1,743 | 25 | 0 | 863 | 9 | 4,970 |
| 75 | Eastern IL U. | NA | NA | 7,821 | 601 | 752 | 1,208 | 44 | 0 | 4,921 | 295 | 0 |
| 76 | CA State U. Dominguez Hills | 6,233 | 66 | 7,815 | 494 | 0 | 5,581 | 129 | 0 | 424 | 15 | 1,172 |
| 77 | CO State U. | 8,092 | 13,461 | 7,523 | 1,454 | 453 | 1,203 | 48 | 0 | 0 | 11 | 4,354 |
| 78 | U. TX El Paso | 11,160 | 10,721 | 7,445 | 22 | 2 | 5,972 | 452 | 0 | 0 | 3 | 994 |
| 79 | U. NC Greensboro | 11,173 | 7,665 | 7,444 | 0 | 29 | 7,121 | 119 | 0 | 0 | 89 | 86 |
| 80 | Central WA U. | 8,490 | 4,830 | 7,372 | 5 | 0 | 737 | 82 | 0 | 0 | 0 | 6,548 |
| 81 | Fordham U. | 1,785 | 6,492 | 7,360 | 1,218 | 0 | 1,895 | 1,782 | 2,335 | 130 | 0 | 0 |
| 82 | San Francisco State U. | 353 | 974 | 7,175 | 0 | 0 | 6,197 | 12 | 0 | 0 | 0 | 966 |
| 83 | Case Western Reserve U. | 884 | 5,450 | 6,973 | 0 | 0 | 0 | 6,973 | 0 | 0 | 0 | 0 |
| 84 | U. NC Chapel Hill | 6,951 | 4,719 | 6,929 | 1,467 | 1,892 | 2,578 | 821 | 0 | 0 | 171 | 0 |
| 85 | U. TN all campuses | 2,672 | 1,643 | 6,769 | 4,076 | 383 | 174 | 808 | 0 | 697 | 38 | 593 |
| 86 | Syracuse U. all campuses | 0 | 3,808 | 6,765 | 2,178 | 1,037 | 2,335 | 0 | 887 | 128 | 0 | 200 |
| 87 | Northeastern U. | 6,487 | 5,834 | 6,718 | 46 | 217 | 3,418 | 1,087 | 695 | 1,228 | 27 | 0 |
| 88 | U. CA, Irvine | NA | 6,028 | 6,624 | 1,090 | 0 | 1,028 | 4,309 | 0 | 0 | 197 | 0 |
| 89 | U. Pittsburgh all campuses | 4,010 | 5,024 | 6,428 | 309 | 0 | 5,838 | 211 | 66 | 0 | 4 | 0 |
| 90 | Fayetteville State U. | 7,688 | 0 | 6,381 | 0 | 63 | 5,806 | 0 | 44 | 149 | 243 | 76 |

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2007 Non-S&E Fields in First 300 Institutions: FY 2005–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2005 | 2006 | 2007 Non-S&E Fields | | | | | | | | Other non-S&E Fields |
|------|---------------------------------------|--------|-------|---------------------|-------------------------|--|-----------|------------|-------|-------------|----------------------------|----------------------|
| | | | | All non-S&E fields | Business and management | Communication, journalism, and library science | Education | Humanities | Law | Social work | Visual and performing arts | |
| 91 | U. AK Anchorage all campuses | 0 | 7,676 | 6,373 | 1,802 | 0 | 993 | 0 | 367 | 0 | 0 | 3,211 |
| 92 | U. NH | 7,598 | 6,835 | 6,235 | 1,316 | 0 | 4,357 | 423 | 0 | 123 | 0 | 16 |
| 93 | Wichita State U. | 20,456 | 6,061 | 5,994 | 794 | 1,136 | 3,984 | 30 | 0 | 20 | 30 | 0 |
| 94 | Eastern KY U. | 828 | 3,413 | 5,966 | 65 | 80 | 122 | 6 | 5,689 | 0 | 4 | 0 |
| 95 | U. VA all campuses | 5,098 | 4,624 | 5,713 | 19 | 76 | 3,316 | 1,027 | 1,031 | 0 | 0 | 244 |
| 96 | Western IL U. | 7,500 | 6,400 | 5,600 | 400 | 0 | 5,200 | 0 | 0 | 0 | 0 | 0 |
| 97 | Fairfield U. | 5,714 | 5,173 | 5,573 | 1,520 | 125 | 109 | 2,077 | 0 | 0 | 519 | 1,223 |
| 98 | CUNY Graduate Ctr. | 3,975 | 5,307 | 5,399 | 0 | 0 | 2,743 | 1,545 | 0 | 0 | 0 | 1,111 |
| 99 | Temple U. | 3,584 | 4,378 | 5,379 | 297 | 0 | 1,917 | 186 | 2,236 | 359 | 364 | 20 |
| 100 | Seton Hall U. | 6,713 | 4,151 | 5,350 | 148 | 0 | 4,250 | 21 | 915 | 0 | 11 | 5 |
| 101 | WV U. | 1,876 | 1,912 | 5,210 | 439 | 126 | 921 | 1,633 | 1 | 4 | 13 | 2,073 |
| 102 | Clemson U. | 5,135 | 5,100 | 5,199 | 170 | 0 | 3,326 | 282 | 0 | 0 | 5 | 1,416 |
| 103 | MS State U. | 4,787 | 6,202 | 5,064 | 726 | 233 | 2,106 | 708 | 0 | 0 | 152 | 1,139 |
| 104 | Tufts U. | 5,574 | 4,663 | 5,042 | 0 | 543 | 1,324 | 2,964 | 197 | 0 | 14 | 0 |
| 105 | U. MA Amherst | 6,610 | 4,912 | 4,972 | 332 | 0 | 4,057 | 516 | 37 | 0 | 30 | 0 |
| 106 | Gallaudet U. | 4,577 | 4,697 | 4,867 | 0 | 0 | 4,867 | 0 | 0 | 0 | 0 | 0 |
| 107 | U. Houston | 7,205 | 5,322 | 4,839 | 36 | 0 | 3,537 | 546 | 7 | 0 | 0 | 713 |
| 108 | Ball State U. | 2,880 | 4,553 | 4,830 | 790 | 1 | 3,177 | 307 | 0 | 0 | 0 | 555 |
| 109 | GA Southern U. | 3,223 | 4,520 | 4,811 | 254 | 2 | 4,321 | 30 | 0 | 204 | 0 | 0 |
| 110 | U. NC Charlotte | 4,265 | 4,193 | 4,809 | 30 | 15 | 3,494 | 765 | 0 | 0 | 0 | 505 |
| 111 | U. of Notre Dame | 4,300 | 3,584 | 4,805 | 509 | 222 | 0 | 1,371 | 49 | 0 | 5 | 2,649 |
| 112 | Northern IL U. | 3,548 | 4,421 | 4,773 | 2,454 | 24 | 180 | 64 | 97 | 13 | 14 | 1,927 |
| 113 | Northeastern IL U. | 5,036 | 5,270 | 4,772 | 0 | 5 | 3,552 | 0 | 0 | 1,175 | 40 | 0 |
| 114 | UT State U. | 2,599 | 4,265 | 4,719 | 3 | 1 | 3,748 | 967 | 0 | 0 | 0 | 0 |
| 115 | Boston U. | 4,678 | 6,017 | 4,620 | 969 | 0 | 353 | 862 | 0 | 1,865 | 0 | 571 |
| 116 | U. SC all campuses | 7,987 | 3,887 | 4,591 | 1,896 | 493 | 1,499 | 180 | 0 | 201 | 322 | 0 |
| 117 | U. North FL | 2,188 | 2,303 | 4,537 | 105 | 0 | 4,430 | 2 | 0 | 0 | 0 | 0 |
| 118 | U. Denver | 4,810 | 4,004 | 4,345 | 0 | 26 | 215 | 1 | 3,625 | 478 | 0 | 0 |
| 119 | U. NM main campus | 4,168 | 4,824 | 4,304 | 0 | 1,882 | 1,332 | 364 | 496 | 7 | 223 | 0 |
| 120 | U. MD Baltimore County | 638 | 2,487 | 4,233 | 7 | 0 | 494 | 2,153 | 0 | 0 | 1,436 | 143 |
| 121 | Portland State U. | 431 | 3,545 | 4,178 | 7 | 119 | 3,012 | 102 | 0 | 917 | 21 | 0 |
| 122 | Wellesley C. | 5,173 | 4,376 | 4,169 | 1,248 | 15 | 0 | 5 | 0 | 0 | 69 | 2,832 |
| 123 | U. MO-Kansas City | 3,502 | 1,556 | 4,074 | 993 | 22 | 43 | 139 | 0 | 250 | 144 | 2,483 |
| 124 | U. CA, Davis | NA | 3,094 | 4,004 | 152 | 4 | 1,270 | 237 | 46 | 0 | 2,294 | 1 |
| 125 | NM State U. main campus | 1,023 | 3,508 | 3,984 | 296 | 0 | 1,957 | 1,680 | 0 | 0 | 19 | 32 |
| 126 | CUNY Hunter C. | 4,051 | 4,731 | 3,977 | 0 | 45 | 1,856 | 656 | 0 | 1,190 | 230 | 0 |
| 127 | U. ME | 749 | 714 | 3,937 | 182 | 285 | 2,121 | 125 | 0 | 1,224 | 0 | 0 |
| 128 | St. Joseph's U. | 3,199 | 4,342 | 3,871 | 3,366 | 0 | 400 | 100 | 0 | 5 | 0 | 0 |
| 129 | Cornell U. all campuses | 2,007 | 1,790 | 3,855 | 535 | 2 | 1,495 | 833 | 245 | 0 | 3 | 742 |
| 130 | VA Polytechnic Institute and State U. | 2,525 | 3,596 | 3,845 | 657 | 80 | 391 | 66 | 0 | 0 | 1,272 | 1,379 |
| 131 | IA State U. | 6,303 | 5,587 | 3,844 | 1,076 | 0 | 2,543 | 219 | 0 | 0 | 2 | 4 |
| 132 | St. Cloud State U. | 3,610 | 3,648 | 3,805 | 111 | 416 | 2,462 | 390 | 0 | 399 | 3 | 24 |
| 133 | IL Institute of Technology | 2,583 | 2,008 | 3,785 | 136 | 19 | 206 | 264 | 1,431 | 0 | 0 | 1,729 |
| 134 | John Carroll U. | 3,474 | 3,568 | 3,769 | 0 | 0 | 3,769 | 0 | 0 | 0 | 0 | 0 |
| 135 | U. Rochester | 2,941 | 2,829 | 3,769 | 90 | 508 | 2,192 | 45 | 0 | 495 | 439 | 0 |
| 136 | U. AL Huntsville, The | 2,729 | 2,600 | 3,733 | 3,329 | 53 | 36 | 187 | 0 | 0 | 0 | 128 |

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2007 Non-S&E Fields in First 300 Institutions: FY 2005–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2007 Non-S&E Fields | | | | | | | | | | |
|------|---|---------------------|-------|--------------------|-------------------------|--|-----------|------------|-------|-------------|----------------------------|----------------------|
| | | 2005 | 2006 | All non-S&E fields | Business and management | Communication, journalism, and library science | Education | Humanities | Law | Social work | Visual and performing arts | Other non-S&E Fields |
| 137 | U. NV, Las Vegas | 1,221 | 1,587 | 3,687 | 187 | 0 | 594 | 117 | 0 | 281 | 0 | 2,508 |
| 138 | Southern Methodist U. | 2,600 | 3,348 | 3,604 | 92 | 0 | 2,398 | 150 | 899 | 0 | 0 | 65 |
| 139 | Naval Postgraduate School | 2,890 | 5,934 | 3,580 | 3,518 | 62 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140 | Wayne State U. | 4,669 | 4,303 | 3,552 | 423 | 64 | 1,038 | 433 | 46 | 537 | 137 | 874 |
| 141 | GA Institute of Technology all campuses | 1,681 | 4,061 | 3,547 | 0 | 183 | 0 | 333 | 0 | 0 | 0 | 3,031 |
| 142 | Claremont Graduate U. | 3,391 | 3,613 | 3,540 | 468 | 0 | 1,613 | 471 | 0 | 0 | 0 | 988 |
| 143 | Wabash C. | 3,263 | 3,423 | 3,518 | 14 | 0 | 0 | 3,504 | 0 | 0 | 0 | 0 |
| 144 | U. NV, Reno | 1,727 | 1,726 | 3,477 | 1,237 | 0 | 665 | 1,203 | 322 | 50 | 0 | 0 |
| 145 | Georgetown U. | 3,350 | 3,577 | 3,274 | 269 | 0 | 21 | 2,911 | 73 | 0 | 0 | 0 |
| 146 | WA State U. | 2,605 | 7,151 | 3,252 | 95 | 1,779 | 1,134 | 244 | 0 | 0 | 0 | 0 |
| 147 | Tulane U. | 4,940 | 4,431 | 3,214 | 2,574 | 0 | 43 | 230 | 254 | 0 | 0 | 113 |
| 148 | Kent State U. all campuses | 4,112 | 5,430 | 3,200 | 0 | 541 | 539 | 571 | 30 | 0 | 0 | 1,519 |
| 149 | Rochester Institute of Technology | 3,241 | 2,596 | 3,145 | 25 | 6 | 3,030 | 84 | 0 | 0 | 0 | 0 |
| 150 | Washington U. St. Louis | 3,796 | 3,659 | 3,071 | 426 | 0 | 2,478 | 167 | 0 | 0 | 0 | 0 |
| 151 | LA Tech U. | 2,780 | 2,819 | 3,024 | 2,155 | 17 | 81 | 313 | 0 | 0 | 458 | 0 |
| 152 | Brigham Young U. all campuses | 3,029 | 4,040 | 2,982 | 315 | 208 | 712 | 1,722 | 0 | 0 | 25 | 0 |
| 153 | KS State U. | 3,428 | 3,214 | 2,964 | 30 | 184 | 1,551 | 135 | 0 | 9 | 24 | 1,031 |
| 154 | U. CA, San Diego | NA | 2,391 | 2,927 | 85 | 80 | 729 | 380 | 0 | 0 | 938 | 715 |
| 155 | Southern OR U. | 2,286 | 2,323 | 2,917 | 144 | 1,408 | 1,343 | 5 | 0 | 0 | 7 | 10 |
| 156 | George Mason U. | 14,743 | 9,787 | 2,816 | 333 | 0 | 1,456 | 713 | 279 | 5 | 0 | 30 |
| 157 | CA State U. Fullerton | 3,348 | 3,371 | 2,804 | 1,625 | 20 | 797 | 71 | 0 | 240 | 30 | 21 |
| 158 | Rowan U. | 2,937 | 2,779 | 2,797 | 64 | 63 | 2,473 | 70 | 7 | 0 | 19 | 101 |
| 159 | IL State U. | 1,876 | 1,424 | 2,697 | 25 | 0 | 2,044 | 0 | 0 | 227 | 0 | 401 |
| 160 | U. Chicago | 2,847 | 3,256 | 2,673 | 696 | 0 | 0 | 114 | 0 | 1,589 | 0 | 274 |
| 161 | St. Louis U. all campuses | 0 | 115 | 2,656 | 97 | 637 | 1,072 | 355 | 258 | 147 | 7 | 83 |
| 162 | Yale U. | 1,188 | 2,005 | 2,647 | 0 | 0 | 0 | 1,009 | 1,638 | 0 | 0 | 0 |
| 163 | Eastern MI U. | 1,110 | 3,328 | 2,520 | 150 | 0 | 1,266 | 586 | 0 | 518 | 0 | 0 |
| 164 | Boston C. | 2,144 | 2,650 | 2,449 | 222 | 0 | 1,719 | 36 | 240 | 0 | 168 | 64 |
| 165 | TX State U. San Marcos | 1,635 | 2,462 | 2,430 | 21 | 0 | 448 | 102 | 699 | 0 | 0 | 1,160 |
| 166 | CA State U. San Bernardino | 10,307 | 2,394 | 2,411 | 813 | 52 | 0 | 0 | 417 | 159 | 851 | 119 |
| 167 | C. Charleston | 1,458 | 1,735 | 2,399 | 421 | 107 | 1,026 | 767 | 0 | 0 | 72 | 6 |
| 168 | U. IL Chicago | 4,189 | 5,004 | 2,394 | 431 | 96 | 1,436 | 383 | 0 | 0 | 48 | 0 |
| 169 | Duquesne U. | 2,076 | 2,170 | 2,325 | 1,262 | 1 | 420 | 66 | 335 | 0 | 241 | 0 |
| 170 | VA State U. | 177 | 2,031 | 2,325 | 0 | 0 | 947 | 0 | 0 | 0 | 0 | 1,378 |
| 171 | U. MO-St. Louis | 1,966 | 1,874 | 2,307 | 317 | 2 | 843 | 98 | 0 | 248 | 5 | 794 |
| 172 | Hofstra U. | NA | 2,281 | 2,263 | 0 | 0 | 2,223 | 38 | 0 | 0 | 0 | 2 |
| 173 | U. DE | 2,252 | 1,997 | 2,186 | 402 | 0 | 1,764 | 20 | 0 | 0 | 0 | 0 |
| 174 | U. Dayton | 2,733 | 2,990 | 2,161 | 140 | 4 | 1,906 | 36 | 0 | 0 | 75 | 0 |
| 175 | Southwestern OK State U. | ne | ne | 2,126 | 10 | 0 | 2,116 | 0 | 0 | 0 | 0 | 0 |
| 176 | Brandeis U. | 2,299 | 2,233 | 2,094 | 0 | 0 | 1,611 | 0 | 372 | 0 | 111 | 0 |
| 177 | CA State U. Los Angeles | 653 | 704 | 2,050 | 0 | 0 | 1,893 | 51 | 0 | 22 | 0 | 84 |
| 178 | Rice U. | 667 | 481 | 2,012 | 141 | 33 | 1,505 | 254 | 0 | 0 | 79 | 0 |
| 179 | U. Miami | 1,629 | 1,975 | 1,998 | 0 | 0 | 1,902 | 62 | 0 | 0 | 34 | 0 |
| 180 | U. TX-Pan American | 1,778 | 1,785 | 1,992 | 17 | 0 | 1,856 | 118 | 1 | 0 | 0 | 0 |
| 181 | Teachers C. Columbia U. | 2,627 | 1,702 | 1,976 | 0 | 0 | 1,976 | 0 | 0 | 0 | 0 | 0 |

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2007 Non-S&E Fields in First 300 Institutions: FY 2005–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2005 | 2006 | 2007 Non-S&E Fields | | | | | | | | Other non-S&E Fields |
|------|-------------------------------------|-------|-------|---------------------|-------------------------|--|-----------|------------|-------|-------------|----------------------------|----------------------|
| | | | | All non-S&E fields | Business and management | Communication, journalism, and library science | Education | Humanities | Law | Social work | Visual and performing arts | |
| 182 | Duke U. | 1,606 | 1,703 | 1,941 | 2 | 0 | 106 | 1,185 | 492 | 130 | 26 | 0 |
| 183 | U. of the Pacific | 1,146 | 2,048 | 1,937 | 240 | 290 | 487 | 58 | 672 | 53 | 137 | 0 |
| 184 | U. PR Mayaguez Campus | 1,300 | 1,257 | 1,925 | 79 | 0 | 1,827 | 19 | 0 | 0 | 0 | 0 |
| 185 | SUNY Binghamton | 150 | 331 | 1,920 | 207 | 0 | 1,625 | 88 | 0 | 0 | 0 | 0 |
| 186 | NM Highlands U. | 4,111 | 3,725 | 1,909 | 0 | 0 | 1,817 | 0 | 0 | 92 | 0 | 0 |
| 187 | U. Toledo | 651 | 2,252 | 1,894 | 398 | 18 | 1,323 | 8 | 0 | 54 | 93 | 0 |
| 188 | West Chester U. PA | 3,244 | 1,224 | 1,887 | 900 | 5 | 170 | 220 | 0 | 0 | 6 | 586 |
| 189 | Cleveland State U. | 6,531 | 1,580 | 1,871 | 174 | 38 | 1,050 | 503 | 42 | 45 | 19 | 0 |
| 190 | CA Institute of Technology | 0 | 85 | 1,855 | 0 | 0 | 0 | 1,855 | 0 | 0 | 0 | 0 |
| 191 | Dickinson C. | 1,452 | 841 | 1,844 | 0 | 2 | 0 | 1,802 | 0 | 0 | 28 | 12 |
| 192 | Baylor U. | 2,051 | 1,972 | 1,843 | 27 | 92 | 69 | 839 | 4 | 680 | 23 | 109 |
| 193 | U.S. Air Force Academy | 677 | 0 | 1,841 | 263 | 0 | 0 | 1,315 | 263 | 0 | 0 | 0 |
| 194 | Dillard U. | NA | ne | 1,838 | 0 | 4 | 5 | 0 | 0 | 0 | 0 | 1,829 |
| 195 | Shaw U. | 1,895 | 1,920 | 1,806 | 0 | 101 | 1,615 | 65 | 0 | 0 | 25 | 0 |
| 196 | Daemen C. | ne | ne | 1,788 | 0 | 7 | 1,761 | 0 | 0 | 0 | 0 | 20 |
| 197 | U. TX San Antonio | 1,177 | 2,058 | 1,779 | 368 | 0 | 1,294 | 91 | 0 | 0 | 26 | 0 |
| 198 | U. North TX | 4,182 | 3,466 | 1,774 | 271 | 497 | 751 | 170 | 0 | 0 | 85 | 0 |
| 199 | Lehigh U. | 2,177 | 1,577 | 1,770 | 1 | 0 | 1,614 | 0 | 14 | 0 | 0 | 141 |
| 200 | Clark U. | 1,930 | 2,045 | 1,741 | 0 | 0 | 1,741 | 0 | 0 | 0 | 0 | 0 |
| 201 | American U. | 129 | 1,433 | 1,735 | 0 | 41 | 26 | 0 | 1,668 | 0 | 0 | 0 |
| 202 | U. AZ | 1,665 | 2,239 | 1,697 | 0 | 29 | 697 | 760 | 2 | 0 | 209 | 0 |
| 203 | Loyola C. | 318 | NA | 1,696 | 0 | 0 | 564 | 0 | 0 | 0 | 0 | 1,132 |
| 204 | SUNY C. Plattsburgh | 3,931 | 3,681 | 1,687 | 83 | 21 | 1,424 | 0 | 0 | 64 | 0 | 95 |
| 205 | Western WA U. | 2,328 | 2,073 | 1,687 | 294 | 0 | 640 | 158 | 0 | 576 | 0 | 19 |
| 206 | Middlebury C. | NA | ne | 1,671 | 0 | 140 | 1,320 | 45 | 0 | 166 | 0 | 0 |
| 207 | Rose-Hulman Institute of Technology | 1,742 | 2,126 | 1,620 | 0 | 0 | 1,620 | 0 | 0 | 0 | 0 | 0 |
| 208 | TX Christian U. | 1,633 | 1,474 | 1,612 | 4 | 34 | 1,209 | 76 | 0 | 264 | 20 | 5 |
| 209 | MT Tech of the U. MT | 1,053 | 1,471 | 1,605 | 0 | 0 | 1,219 | 0 | 0 | 0 | 0 | 386 |
| 210 | Pace U. all campuses | 1,669 | 1,886 | 1,577 | 264 | 0 | 3 | 300 | 434 | 0 | 0 | 576 |
| 211 | Tuskegee U. | 1,202 | 1,331 | 1,576 | 0 | 0 | 1,576 | 0 | 0 | 0 | 0 | 0 |
| 212 | TX Tech U. | 1,375 | 1,338 | 1,561 | 0 | 0 | 1,445 | 5 | 66 | 0 | 45 | 0 |
| 213 | U. Hartford | 0 | 0 | 1,534 | 158 | 0 | 388 | 9 | 0 | 700 | 279 | 0 |
| 214 | U. Tulsa | 900 | 851 | 1,483 | 88 | 11 | 236 | 627 | 520 | 0 | 1 | 0 |
| 215 | U. Southern MS | 885 | 1,682 | 1,460 | 140 | 26 | 1,186 | 0 | 0 | 108 | 0 | 0 |
| 216 | Amherst C. | 885 | 1,321 | 1,458 | 0 | 16 | 0 | 568 | 0 | 610 | 245 | 19 |
| 217 | CUNY Baruch C. | 1,795 | 1,735 | 1,454 | 0 | 0 | 19 | 149 | 0 | 0 | 2 | 1,284 |
| 218 | Drexel U. | 5,274 | 988 | 1,435 | 72 | 346 | 406 | 45 | 0 | 0 | 53 | 513 |
| 219 | NC State U. | NA | 0 | 1,365 | 485 | 0 | 726 | 154 | 0 | 0 | 0 | 0 |
| 220 | Chapman U. | 0 | 1,235 | 1,358 | 3 | 0 | 1,260 | 0 | 95 | 0 | 0 | 0 |
| 221 | Drake U. | 1,244 | 1,146 | 1,347 | 33 | 0 | 767 | 149 | 392 | 0 | 6 | 0 |
| 222 | MI Technological U. | 1,149 | 1,119 | 1,346 | 216 | 13 | 171 | 807 | 0 | 0 | 115 | 24 |
| 223 | U. AL Birmingham, The | 1,304 | 1,405 | 1,320 | 776 | 0 | 544 | 0 | 0 | 0 | 0 | 0 |
| 224 | U. MA Lowell | 1,893 | 1,748 | 1,293 | 113 | 0 | 237 | 0 | 222 | 0 | 5 | 716 |
| 225 | Lewis and Clark C. | 510 | 884 | 1,267 | 0 | 6 | 236 | 66 | 947 | 0 | 12 | 0 |
| 226 | TX A&M U. Corpus Christi | 2,080 | 173 | 1,245 | 12 | 0 | 955 | 34 | 20 | 0 | 0 | 224 |
| 227 | U. Baltimore | 4,689 | 650 | 1,228 | 1,001 | 59 | 87 | 0 | 81 | 0 | 0 | 0 |
| 228 | Southern CT State U. | 1,857 | NA | 1,200 | 0 | 0 | 1,200 | 0 | 0 | 0 | 0 | 0 |

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2007 Non-S&E Fields in First 300 Institutions: FY 2005–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2005 | 2006 | 2007 Non-S&E Fields | | | | | | | | Other non-S&E Fields |
|------|--------------------------------------|-------|-------|---------------------|-------------------------|--|-----------|------------|-----|-------------|----------------------------|----------------------|
| | | | | All non-S&E fields | Business and management | Communication, journalism, and library science | Education | Humanities | Law | Social work | Visual and performing arts | |
| 229 | FL A&M U. | 2,106 | 2,531 | 1,154 | 0 | 0 | 913 | 86 | 0 | 155 | 0 | 0 |
| 230 | Loyola Marymount U. | 290 | 513 | 1,129 | 332 | 0 | 352 | 158 | 240 | 4 | 43 | 0 |
| 231 | ND State U. all campuses | 237 | 727 | 1,129 | 5 | 268 | 758 | 96 | 0 | 0 | 0 | 2 |
| 232 | U. LA Monroe | 0 | 1,260 | 1,121 | 0 | 0 | 1,041 | 77 | 3 | 0 | 0 | 0 |
| 233 | U. UT | 1,441 | 1,551 | 1,070 | 239 | 0 | 419 | 361 | 3 | 0 | 48 | 0 |
| 234 | U. IL Springfield | 920 | 840 | 1,007 | 166 | 0 | 221 | 553 | 0 | 67 | 0 | 0 |
| 235 | Adelphi U. | ne | ne | 1,002 | 0 | 0 | 82 | 0 | 0 | 920 | 0 | 0 |
| 236 | Carnegie Mellon U. | 1,947 | 832 | 996 | 0 | 0 | 0 | 996 | 0 | 0 | 0 | 0 |
| 237 | U. VT | 586 | 973 | 977 | 254 | 0 | 611 | 112 | 0 | 0 | 0 | 0 |
| 238 | U. PR Rio Piedras Campus | 886 | 1,014 | 966 | 0 | 0 | 368 | 354 | 192 | 0 | 0 | 52 |
| 239 | Hamilton C. (Clinton, NY) | 935 | 1,345 | 953 | 0 | 10 | 289 | 378 | 0 | 276 | 0 | 0 |
| 240 | Tougaloo C. | NA | 0 | 941 | 0 | 0 | 0 | 0 | 0 | 941 | 0 | 0 |
| 241 | U. Southern ME | NA | 926 | 926 | 0 | 0 | 926 | 0 | 0 | 0 | 0 | 0 |
| 242 | Auburn U. all campuses | 1,440 | 854 | 925 | 612 | 0 | 84 | 229 | 0 | 0 | 0 | 0 |
| 243 | CUNY Brooklyn C. | 435 | 594 | 908 | 0 | 113 | 138 | 640 | 2 | 0 | 15 | 0 |
| 244 | Smith C. | 1,391 | 1,262 | 903 | 0 | 0 | 5 | 423 | 0 | 362 | 96 | 17 |
| 245 | Worcester Polytechnic Institute | 57 | 862 | 899 | 322 | 23 | 554 | 0 | 0 | 0 | 0 | 0 |
| 246 | TX Southern U. | 448 | 995 | 876 | 0 | 0 | 272 | 0 | 0 | 0 | 0 | 604 |
| 247 | CUNY The City C. | 834 | 755 | 872 | 0 | 0 | 587 | 285 | 0 | 0 | 0 | 0 |
| 248 | Carleton C. | 465 | 753 | 866 | 0 | 0 | 0 | 866 | 0 | 0 | 0 | 0 |
| 249 | West TX A&M U. | 1,110 | 1,293 | 864 | 725 | 0 | 34 | 81 | 0 | 0 | 0 | 24 |
| 250 | Calvin C. | 1,030 | 1,212 | 854 | 28 | 189 | 120 | 410 | 0 | 0 | 107 | 0 |
| 251 | CA State U. Long Beach | 978 | 558 | 830 | 0 | 0 | 782 | 31 | 0 | 0 | 0 | 17 |
| 252 | Macalester C. | 776 | 794 | 829 | 0 | 0 | 23 | 570 | 0 | 0 | 236 | 0 |
| 253 | Mercyhurst C. | ne | 880 | 792 | 0 | 1 | 22 | 2 | 0 | 245 | 80 | 442 |
| 254 | Roanoke C. | 651 | 713 | 787 | 0 | 191 | 52 | 317 | 0 | 0 | 107 | 120 |
| 255 | Western U. of Health Sciences | 0 | 0 | 787 | 0 | 0 | 787 | 0 | 0 | 0 | 0 | 0 |
| 256 | Wesleyan U. | 500 | 449 | 779 | 0 | 24 | 92 | 619 | 0 | 0 | 44 | 0 |
| 257 | U. MO-Rolla | 2,495 | 1,890 | 773 | 81 | 1 | 0 | 1 | 0 | 0 | 0 | 690 |
| 258 | Bryn Mawr C. | 1,317 | 635 | 759 | 0 | 0 | 6 | 412 | 0 | 263 | 78 | 0 |
| 259 | FL Institute of Technology | 381 | 1,306 | 747 | 509 | 0 | 13 | 98 | 0 | 0 | 0 | 127 |
| 260 | DePaul U. | 496 | 624 | 706 | 179 | 9 | 55 | 389 | 66 | 0 | 8 | 0 |
| 261 | Pomona C. | 277 | 597 | 698 | 0 | 0 | 0 | 602 | 0 | 0 | 96 | 0 |
| 262 | U. Northern IA | 1,509 | 344 | 695 | 0 | 0 | 695 | 0 | 0 | 0 | 0 | 0 |
| 263 | Swarthmore C. | 684 | 666 | 688 | 0 | 0 | 0 | 688 | 0 | 0 | 0 | 0 |
| 264 | ID State U. | 437 | 365 | 682 | 572 | 0 | 87 | 18 | 0 | 0 | 5 | 0 |
| 265 | U. San Diego | 239 | 534 | 681 | 0 | 5 | 76 | 8 | 143 | 449 | 0 | 0 |
| 266 | SUNY C. Cortland | 428 | 450 | 665 | 0 | 0 | 665 | 0 | 0 | 0 | 0 | 0 |
| 267 | Bucknell U. | 49 | 414 | 660 | 0 | 0 | 0 | 102 | 0 | 0 | 0 | 558 |
| 268 | U. CA, Merced | NA | 404 | 655 | 0 | 0 | 0 | 38 | 0 | 0 | 102 | 515 |
| 269 | CUNY Queens C. | 752 | 30 | 654 | 0 | 0 | 438 | 216 | 0 | 0 | 0 | 0 |
| 270 | U. TX of the Permian Basin | ne | ne | 651 | 364 | 0 | 252 | 35 | 0 | 0 | 0 | 0 |
| 271 | CUNY John Jay C. of Criminal Justice | 385 | 705 | 625 | 0 | 2 | 17 | 23 | 344 | 0 | 0 | 239 |
| 272 | U. San Francisco | 163 | 519 | 618 | 250 | 17 | 6 | 19 | 106 | 0 | 13 | 207 |
| 273 | U. Richmond | 619 | 546 | 602 | 15 | 69 | 210 | 155 | 64 | 0 | 89 | 0 |

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2007 Non-S&E Fields in First 300 Institutions: FY 2005–07 and by Subfield for FY 2007

(Dollars in Thousands)

| Rank | Institution | 2005 | 2006 | 2007 Non-S&E Fields | | | | | | | | Other non-S&E Fields |
|------|---|--------|--------|---------------------|-------------------------|--|-----------|------------|-----|-------------|----------------------------|----------------------|
| | | | | All non-S&E fields | Business and management | Communication, journalism, and library science | Education | Humanities | Law | Social work | Visual and performing arts | |
| 274 | Fisk U. | 600 | 600 | 600 | 0 | 0 | 500 | 0 | 0 | 0 | 100 | 0 |
| 275 | Roger Williams U. Bristol | 630 | 872 | 599 | 0 | 0 | 175 | 0 | 424 | 0 | 0 | 0 |
| 276 | U. TX Arlington | 184 | 141 | 590 | 0 | 0 | 166 | 29 | 0 | 395 | 0 | 0 |
| 277 | TX A&M U. Kingsville | 499 | 442 | 587 | 12 | 0 | 151 | 0 | 0 | 0 | 0 | 424 |
| 278 | U. MA Dartmouth | 1,681 | 1,218 | 582 | 108 | 0 | 237 | 185 | 0 | 0 | 2 | 50 |
| 279 | Boise State U. | 6 | 1,149 | 573 | 0 | 0 | 354 | 2 | 0 | 0 | 0 | 217 |
| 280 | Western Carolina U. | 27 | 1,348 | 571 | 102 | 221 | 189 | 0 | 59 | 0 | 0 | 0 |
| 281 | Central MI U. | 325 | 631 | 570 | 47 | 17 | 232 | 274 | 0 | 0 | 0 | 0 |
| 282 | Wake Forest U. | 516 | 714 | 566 | 180 | 223 | 72 | 49 | 0 | 0 | 42 | 0 |
| 283 | Catholic U. America, The | 1,265 | 750 | 565 | 0 | 5 | 61 | 159 | 174 | 83 | 0 | 83 |
| 284 | Howard U. | 304 | 352 | 563 | 20 | 0 | 344 | 10 | 0 | 189 | 0 | 0 |
| 285 | Winona State U. | ne | ne | 557 | 144 | 85 | 115 | 196 | 0 | 16 | 0 | 1 |
| 286 | FL Atlantic U. | 409 | 1,497 | 549 | 61 | 0 | 255 | 19 | 0 | 1 | 14 | 199 |
| 287 | Lamar U. | 0 | 0 | 548 | 6 | 0 | 302 | 0 | 0 | 0 | 0 | 240 |
| 288 | Bowling Green State U. all campuses | 796 | 2,078 | 547 | 0 | 167 | 321 | 16 | 0 | 0 | 0 | 43 |
| 289 | U. NC Wilmington | 814 | 603 | 539 | 54 | 0 | 250 | 10 | 0 | 225 | 0 | 0 |
| 290 | Augsburg C. | 247 | 524 | 532 | 0 | 49 | 320 | 0 | 0 | 0 | 0 | 163 |
| 291 | SD State U. | 347 | 221 | 531 | 0 | 184 | 347 | 0 | 0 | 0 | 0 | 0 |
| 292 | Grand Valley State U. | 422 | 417 | 524 | 0 | 0 | 524 | 0 | 0 | 0 | 0 | 0 |
| 293 | OK State U. all campuses | 38 | 0 | 517 | 0 | 0 | 503 | 14 | 0 | 0 | 0 | 0 |
| 294 | U. Portland | 383 | 498 | 509 | 34 | 0 | 421 | 0 | 0 | 54 | 0 | 0 |
| 295 | TN State U. | 594 | 597 | 507 | 0 | 0 | 507 | 0 | 0 | 0 | 0 | 0 |
| 296 | Villanova U. | NA | NA | 489 | 31 | 2 | 92 | 164 | 200 | 0 | 0 | 0 |
| 297 | Loyola U. Chicago | 1,325 | 942 | 480 | 46 | 0 | 285 | 0 | 36 | 113 | 0 | 0 |
| 298 | Northern AZ U. | 177 | 260 | 464 | 0 | 0 | 336 | 70 | 0 | 0 | 10 | 48 |
| 299 | CA State Polytechnic U. San Luis Obispo | 280 | 427 | 453 | 66 | 118 | 267 | 0 | 0 | 0 | 2 | 0 |
| 300 | La Salle U. | ne | 600 | 450 | 176 | 0 | 50 | 151 | 0 | 15 | 24 | 34 |
| | All other surveyed institutions | 67,978 | 64,670 | 28,995 | 4,596 | 1,701 | 9,118 | 7,131 | 588 | 1,891 | 1,116 | 2,744 |

NA = not available; institution was unable to provide these data or was not surveyed separately. ne = not eligible; institution did not meet the criteria for inclusion.

S&E = science and engineering.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$0 in total non-S&E R&D expenditures in FY 2007.

NOTES: Institutions not listed in this table did not provide non-S&E R&D expenditures by non-S&E field. Institutions that reported amounts of zero or more are included. Detail may not add to total because some respondents reporting non-S&E R&D expenditures did not break out total and federal funds by non-S&E field. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix O. Federally Financed R&D Expenditures at Universities and Colleges, Financed by the Department of Health and Human Services, Ranked by HHS R&D Expenditures, by Science and Engineering Field: FY 2007

(Dollars in Thousands)

| Rank | Institution | HHS R&D expenditures | Comp. sciences | Environ. Sciences | Life sciences | Mathem. Sciences | Physical sciences | Psych. | Social sciences | Sciences nec | Engg. |
|------|--|----------------------|----------------|-------------------|---------------|------------------|-------------------|---------|-----------------|--------------|---------|
| | All institutions | 17,064,754 | 54,223 | 59,039 | 15,179,338 | 85,329 | 475,128 | 437,146 | 298,126 | 77,380 | 398,189 |
| 1 | Johns Hopkins U., The ^a | 548,622 | 23 | 14,789 | 503,166 | 58 | 4,530 | 5,496 | 1,773 | 437 | 18,350 |
| 2 | U. CA, San Francisco | 451,929 | 0 | 0 | 436,924 | 0 | 15,005 | 0 | 0 | 0 | 0 |
| 3 | U. WA | 419,248 | 0 | 2,179 | 384,085 | 589 | 6,670 | 7,932 | 2,781 | 0 | 15,012 |
| 4 | U. MI all campuses | 400,539 | 1,535 | 0 | 327,686 | 555 | 8,662 | 5,369 | 44,661 | 28 | 12,043 |
| 5 | Duke U. | 394,165 | 549 | 2,464 | 356,765 | 1,169 | 2,917 | 1,795 | 14,532 | 0 | 13,974 |
| 6 | U. PA | 388,015 | 7 | 3 | 355,958 | 0 | 8,394 | 4,860 | 7,491 | 4,394 | 6,908 |
| 7 | Washington U. St. Louis | 378,350 | 452 | 0 | 361,041 | 119 | 4,356 | 3,448 | 3,140 | 0 | 5,794 |
| 8 | U. CA, Los Angeles | 369,171 | 172 | 0 | 344,424 | 201 | 10,068 | 7,639 | 3,069 | 1,617 | 1,981 |
| 9 | U. Pittsburgh all campuses | 348,318 | 419 | 0 | 330,828 | 683 | 5,725 | 5,065 | 1,302 | 312 | 3,984 |
| 10 | Stanford U. | 331,107 | 491 | 213 | 292,145 | 1,262 | 15,181 | 5,980 | 301 | 0 | 15,534 |
| 11 | Yale U. | 309,308 | 448 | 347 | 300,631 | 0 | 4,028 | 3,059 | 76 | 0 | 719 |
| 12 | Harvard U. | 305,339 | 0 | 9,388 | 263,058 | 1,519 | 21,764 | 4,877 | 2,285 | 0 | 2,448 |
| 13 | Columbia U. in the City of NY | 300,407 | 103 | 1,601 | 275,177 | 120 | 2,909 | 2,648 | 7,553 | 0 | 10,296 |
| 14 | U. CA, San Diego | 295,802 | 2,750 | 2,163 | 259,630 | 0 | 16,890 | 4,541 | 1,830 | 379 | 7,619 |
| 15 | Case Western Reserve U. | 271,136 | 0 | 210 | 254,607 | 172 | 2,765 | 1,055 | 3,426 | 0 | 8,901 |
| 16 | U. NC Chapel Hill | 265,944 | 2,723 | 6,078 | 227,483 | 131 | 7,163 | 4,622 | 17,744 | 0 | 0 |
| 17 | Vanderbilt U. | 261,073 | 0 | 0 | 241,437 | 165 | 6,345 | 7,842 | 1,206 | 1,217 | 2,861 |
| 18 | U. WI Madison | 259,064 | 465 | 19 | 221,414 | 625 | 4,864 | 6,438 | 14,679 | 0 | 10,560 |
| 19 | Emory U. | 246,416 | 0 | 0 | 230,356 | 0 | 4,476 | 1,511 | 154 | 0 | 9,919 |
| 20 | U. AL Birmingham, The | 241,852 | 0 | 0 | 236,452 | 263 | 1,637 | 2,714 | 80 | 0 | 706 |
| 21 | Scripps Research Institute, The | 230,321 | 0 | 0 | 230,321 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | U. MN all campuses | 229,070 | 357 | 63 | 206,694 | 202 | 4,538 | 7,076 | 6,335 | 0 | 3,805 |
| 23 | U. CO all campuses | 223,660 | 0 | 33 | 202,336 | 33 | 8,530 | 8,558 | 1,689 | 0 | 2,481 |
| 24 | Baylor C. of Medicine | 217,121 | 0 | 0 | 217,121 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | MA Institute of Technology | 203,727 | 2,201 | 0 | 147,356 | 0 | 14,945 | 573 | 216 | 988 | 37,448 |
| 26 | U. Southern CA | 199,482 | 46 | 38 | 181,293 | 4,447 | 1,656 | 3,432 | 1,287 | 283 | 7,000 |
| 27 | OR Health & Science U. | 198,440 | 10,400 | 0 | 188,040 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | U. Cincinnati all campuses | 196,937 | 0 | 0 | 192,814 | 19 | 1,020 | 192 | 216 | 0 | 2,676 |
| 29 | Cornell U. all campuses | 192,943 | 659 | 0 | 172,347 | 117 | 10,416 | 1,507 | 4,189 | 0 | 3,708 |
| 30 | U. Chicago | 190,450 | 4,922 | 21 | 175,420 | 185 | 3,287 | 4,853 | 1,762 | 0 | 0 |
| 31 | Mt. Sinai School of Medicine | 190,406 | 0 | 0 | 190,406 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | U. IA | 182,094 | 0 | 19 | 168,846 | 194 | 1,685 | 6,417 | 365 | 0 | 4,568 |
| 33 | U. TX Southwestern Medical Ctr. Dallas | 180,060 | 0 | 0 | 180,060 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 | U. Rochester | 177,647 | 94 | 0 | 166,004 | 0 | 1,108 | 9,517 | 0 | 0 | 924 |
| 35 | Boston U. | 168,996 | 0 | 0 | 138,589 | 371 | 3,732 | 8,206 | 202 | 6,134 | 11,762 |
| 36 | U. IL Chicago | 166,745 | 103 | 0 | 156,565 | 0 | 3,001 | 1,434 | 2,691 | 2,174 | 777 |
| 37 | U. TX M. D. Anderson Cancer Ctr. | 160,218 | 0 | 0 | 139,578 | 4,447 | 5,587 | 7,299 | 3,065 | 0 | 242 |
| 38 | NY U. | 159,992 | 412 | 0 | 142,439 | 0 | 2,768 | 14,000 | 373 | 0 | 0 |
| 39 | Northwestern U. | 159,917 | 0 | 0 | 145,094 | 225 | 3,651 | 1,044 | 529 | 2,492 | 6,882 |
| 40 | OH State U. all campuses | 158,225 | 660 | 21 | 142,420 | 233 | 2,614 | 3,742 | 6,546 | 3 | 1,986 |
| 41 | U. CA, Davis | 155,297 | 0 | 255 | 140,620 | 120 | 3,237 | 781 | 2,859 | 0 | 7,425 |
| 42 | U. MD Baltimore | 153,899 | 0 | 0 | 153,899 | 0 | 0 | 0 | 0 | 0 | 0 |
| 43 | Yeshiva U. | 145,004 | 0 | 0 | 145,004 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 | U. VA all campuses | 137,228 | 0 | 0 | 125,227 | 0 | 4,165 | 3,533 | 63 | 0 | 4,240 |
| 45 | Wake Forest U. | 133,947 | 0 | 0 | 132,190 | 0 | 1,536 | 221 | 0 | 0 | 0 |
| 46 | U. UT | 128,835 | 2,795 | 100 | 115,957 | 29 | 4,138 | 1,538 | 263 | 0 | 4,015 |
| 47 | IN U. all campuses | 128,075 | 261 | 0 | 114,865 | 0 | 2,146 | 6,999 | 1,219 | 4 | 2,581 |
| 48 | U. FL | 124,192 | 343 | 2,302 | 108,027 | 1,965 | 1,830 | 6,407 | 385 | 0 | 2,933 |
| 49 | U. CA, Irvine | 121,114 | 1,039 | 0 | 108,095 | 425 | 4,633 | 1,508 | 1,408 | 0 | 4,006 |
| 50 | U. MA Worcester | 119,103 | 0 | 0 | 119,103 | 0 | 0 | 0 | 0 | 0 | 0 |
| 51 | U. of Medicine and Dentistry NJ | 116,589 | 0 | 0 | 116,589 | 0 | 0 | 0 | 0 | 0 | 0 |

Appendix O. Federally Financed R&D Expenditures at Universities and Colleges, Financed by the Department of Health and Human Services, Ranked by HHS R&D Expenditures, by Science and Engineering Field: FY 2007

(Dollars in Thousands)

| Rank | Institution | HHS R&D expenditures | Comp. sciences | Environ. Sciences | Life sciences | Mathem. Sciences | Physical sciences | Psych. | Social sciences | Sciences nec | Engg. |
|------|--|----------------------|----------------|-------------------|---------------|------------------|-------------------|--------|-----------------|--------------|-------|
| 52 | U. TX Health Science Ctr. Houston | 114,855 | 0 | 0 | 114,855 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53 | U. TX Medical Branch | 110,160 | 0 | 0 | 109,387 | 0 | 0 | 0 | 0 | 0 | 773 |
| 54 | Medical C. WI | 103,337 | 0 | 0 | 103,337 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55 | U. AZ | 100,097 | 0 | 360 | 91,142 | 0 | 4,011 | 2,151 | 1,768 | 0 | 665 |
| 56 | U. Miami | 99,724 | 0 | 2,023 | 88,538 | 0 | 2 | 7,355 | 1,103 | 0 | 703 |
| 57 | U. CA, Berkeley | 98,284 | 0 | 0 | 66,902 | 210 | 9,815 | 4,723 | 4,634 | 10,652 | 1,348 |
| 58 | U. KY all campuses | 96,908 | 19 | 156 | 86,966 | 282 | 1,875 | 6,305 | 760 | 0 | 545 |
| 59 | SUNY Buffalo all campuses | 95,599 | 405 | 0 | 87,245 | 0 | 3,312 | 3,168 | 96 | 0 | 1,373 |
| 60 | Wayne State U. | 94,118 | 240 | 0 | 85,526 | 0 | 3,156 | 3,323 | 728 | 0 | 1,145 |
| 61 | Dartmouth C. | 91,883 | 127 | 26 | 85,654 | 0 | 734 | 1,587 | 141 | 369 | 3,245 |
| 62 | U. TX Health Science Ctr. San Antonio | 91,154 | 0 | 0 | 91,154 | 0 | 0 | 0 | 0 | 0 | 0 |
| 63 | SUNY Albany | 88,733 | 0 | 0 | 84,753 | 0 | 330 | 674 | 2,466 | 0 | 510 |
| 64 | Medical U. SC | 87,402 | 0 | 0 | 87,402 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 | Rockefeller U. | 85,069 | 0 | 0 | 80,161 | 1,414 | 3,494 | 0 | 0 | 0 | 0 |
| 66 | PA State U. all campuses | 84,259 | 157 | 1,307 | 62,337 | 12 | 4,076 | 7,895 | 6,018 | 0 | 2,457 |
| 67 | LA State U. all campuses | 83,791 | 0 | 0 | 81,485 | 0 | 1,734 | 373 | 82 | 0 | 117 |
| 68 | U. CT all campuses | 79,497 | 281 | 0 | 68,281 | 208 | 1,900 | 7,512 | 848 | 0 | 467 |
| 69 | U. KS all campuses | 77,538 | 0 | 0 | 73,024 | 0 | 1,073 | 408 | 2,840 | 9 | 184 |
| 70 | Thomas Jefferson U. | 76,749 | 0 | 0 | 76,749 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71 | Georgetown U. | 75,798 | 0 | 0 | 73,953 | 0 | 520 | 852 | 473 | 0 | 0 |
| 72 | Tulane U. | 75,787 | 0 | 0 | 72,823 | 317 | 0 | 275 | 1,709 | 0 | 663 |
| 73 | U. NE all campuses | 75,465 | 316 | 0 | 60,532 | 159 | 837 | 6,801 | 3,105 | 0 | 3,715 |
| 74 | George Washington U. | 73,159 | 190 | 0 | 22,502 | 48,347 | 15 | 1,694 | 128 | 0 | 283 |
| 75 | U. VT | 71,477 | 0 | 0 | 65,912 | 79 | 9 | 1,926 | 0 | 3,236 | 315 |
| 76 | U. NM main campus | 69,796 | 507 | 32 | 61,736 | 0 | 871 | 6,231 | 320 | 0 | 99 |
| 77 | VA Commonwealth U. | 67,891 | 0 | 73 | 61,938 | 0 | 1,920 | 2,257 | 1,493 | 0 | 210 |
| 78 | CO State U. | 67,461 | 0 | 0 | 44,302 | 0 | 3,599 | 2,006 | 1,296 | 15,848 | 410 |
| 79 | Rutgers, The State U. NJ all campuses | 66,549 | 0 | 138 | 52,211 | 110 | 6,293 | 3,036 | 4,324 | 0 | 437 |
| 80 | Tufts U. | 64,851 | 0 | 0 | 59,355 | 0 | 1,688 | 1,594 | 0 | 0 | 2,214 |
| 81 | SUNY Stony Brook all campuses | 64,632 | 462 | 143 | 53,247 | 1,122 | 3,589 | 2,710 | 46 | 0 | 3,313 |
| 82 | U. IL Urbana-Champaign | 61,989 | 393 | 730 | 31,851 | 2 | 12,697 | 5,721 | 1,401 | 1,084 | 8,110 |
| 83 | U. South FL | 60,329 | 0 | 0 | 56,670 | 0 | 598 | 1,820 | 370 | 0 | 871 |
| 84 | U. AR for Medical Sciences | 59,598 | 0 | 0 | 59,598 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85 | Brown U. | 57,910 | 818 | 98 | 51,488 | 90 | 1,405 | 753 | 1,859 | 0 | 1,399 |
| 86 | U. TN all campuses | 56,987 | 0 | 43 | 55,477 | 0 | 229 | 146 | 551 | 0 | 541 |
| 87 | U. Louisville | 54,133 | 0 | 0 | 50,172 | 222 | 307 | 2,821 | 83 | 0 | 528 |
| 88 | U. OK all campuses | 52,810 | 0 | 0 | 49,412 | 0 | 1,098 | 325 | 1,079 | 0 | 896 |
| 89 | U. MO-Columbia | 51,765 | 913 | 0 | 45,752 | 467 | 1,234 | 3,195 | 7 | 0 | 197 |
| 90 | CA Institute of Technology | 48,952 | 36 | 46 | 31,749 | 365 | 12,252 | 0 | 0 | 0 | 4,504 |
| 91 | Charles R. Drew U. of Medicine and Science | 47,273 | 0 | 0 | 47,273 | 0 | 0 | 0 | 0 | 0 | 0 |
| 92 | U. TX Austin | 45,918 | 487 | 0 | 23,518 | 382 | 8,984 | 5,070 | 4,547 | 256 | 2,674 |
| 93 | Temple U. | 45,576 | 405 | 0 | 38,711 | 0 | 498 | 4,984 | 233 | 0 | 745 |
| 94 | U. MS all campuses | 44,583 | 0 | 0 | 44,323 | 0 | 260 | 0 | 0 | 0 | 0 |
| 95 | St. Louis U. all campuses | 44,277 | 0 | 0 | 43,932 | 0 | 125 | 136 | 84 | 0 | 0 |
| 96 | U. GA | 43,677 | 371 | 55 | 33,804 | 43 | 1,079 | 7,509 | 727 | 0 | 89 |
| 97 | MI State U. | 43,443 | 12 | 0 | 37,768 | 158 | 2,155 | 1,946 | 656 | 0 | 748 |
| 98 | U. HI Manoa | 43,085 | 0 | 526 | 40,886 | 0 | 136 | 14 | 1,062 | 410 | 51 |
| 99 | Medical C. GA | 40,275 | 0 | 0 | 40,275 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 | Rush U. | 39,403 | 0 | 0 | 38,053 | 0 | 0 | 1,350 | 0 | 0 | 0 |
| 101 | Princeton U. | 37,716 | 559 | 0 | 21,974 | 0 | 2,230 | 5,881 | 5,725 | 0 | 1,347 |
| 102 | AZ State U. | 34,643 | 226 | 19 | 18,436 | 153 | 1,523 | 7,652 | 2,491 | 0 | 4,143 |
| 103 | TX A&M U. | 34,429 | 297 | 680 | 20,844 | 1,857 | 5,534 | 1,186 | 1,488 | 0 | 2,543 |

Appendix O. Federally Financed R&D Expenditures at Universities and Colleges, Financed by the Department of Health and Human Services, Ranked by HHS R&D Expenditures, by Science and Engineering Field: FY 2007

(Dollars in Thousands)

| Rank | Institution | HHS R&D expenditures | Comp. sciences | Environ. Sciences | Life sciences | Mathem. Sciences | Physical sciences | Psych. | Social sciences | Sciences nec | Engg. |
|------|--|----------------------|----------------|-------------------|---------------|------------------|-------------------|--------|-----------------|--------------|--------|
| 104 | TX A&M U. System Health Science Ctr. | 33,955 | 6 | 436 | 33,176 | 0 | 0 | 31 | 0 | 0 | 306 |
| 105 | U. SC all campuses | 33,336 | 0 | 245 | 21,380 | 0 | 2,222 | 5,397 | 2,532 | 1,138 | 422 |
| 106 | U. PR Medical Sciences Campus | 31,797 | 0 | 0 | 31,797 | 0 | 0 | 0 | 0 | 0 | 0 |
| 107 | Meharry Medical C. | 30,172 | 0 | 0 | 30,172 | 0 | 0 | 0 | 0 | 0 | 0 |
| 108 | Brandeis U. | 30,059 | 360 | 0 | 16,668 | 0 | 2,509 | 2,564 | 7,958 | 0 | 0 |
| 109 | U. MD College Park | 26,751 | 862 | 0 | 11,292 | 0 | 2,210 | 3,305 | 6,188 | 0 | 2,894 |
| 110 | NY Medical C. | 25,862 | 0 | 0 | 25,862 | 0 | 0 | 0 | 0 | 0 | 0 |
| 111 | WV U. | 25,549 | 430 | 5 | 23,933 | 0 | 5 | 188 | 98 | 0 | 890 |
| 112 | GA Institute of Technology all campuses | 25,244 | 144 | 0 | 4,024 | 0 | 3,237 | 1,503 | 86 | 0 | 16,250 |
| 113 | Carnegie Mellon U. | 25,076 | 4,251 | 0 | 4,523 | 1,334 | 1,850 | 2,670 | 2,592 | 1,170 | 6,686 |
| 114 | Loyola U. Chicago | 23,422 | 0 | 0 | 22,787 | 0 | 104 | 507 | 24 | 0 | 0 |
| 115 | MT State U. Bozeman | 22,972 | 0 | 0 | 19,000 | 8 | 2,558 | 6 | 0 | 0 | 1,400 |
| 116 | Morehouse School of Medicine | 22,662 | 0 | 0 | 22,662 | 0 | 0 | 0 | 0 | 0 | 0 |
| 117 | U. OR | 22,308 | 0 | 0 | 16,370 | 0 | 13 | 5,602 | 323 | 0 | 0 |
| 118 | U. NV, Reno | 21,987 | 146 | 0 | 20,422 | 0 | 184 | 929 | 68 | 226 | 12 |
| 119 | IA State U. | 21,526 | 292 | 0 | 10,360 | 281 | 1,301 | 193 | 8,896 | 0 | 203 |
| 120 | U. DE | 21,336 | 99 | 164 | 7,162 | 0 | 3,748 | 1,960 | 1,985 | 2,105 | 4,113 |
| 121 | U. MD Biotechnology Institute | 20,748 | 0 | 638 | 20,110 | 0 | 0 | 0 | 0 | 0 | 0 |
| 122 | SUNY Health Science Ctr. Brooklyn | 20,676 | 0 | 0 | 20,676 | 0 | 0 | 0 | 0 | 0 | 0 |
| 123 | WA State U. | 20,288 | 0 | 51 | 16,832 | 206 | 1,873 | 708 | 0 | 12 | 606 |
| 124 | U. CA, Santa Barbara | 19,612 | 0 | 616 | 4,222 | 0 | 4,972 | 3,347 | 278 | 4,379 | 1,798 |
| 125 | U. of Notre Dame | 19,612 | 121 | 0 | 7,762 | 36 | 7,358 | 3,659 | 194 | 0 | 482 |
| 126 | San Diego State U. | 18,643 | 0 | 105 | 12,274 | 0 | 200 | 5,365 | 699 | 0 | 0 |
| 127 | U. MA Amherst | 17,424 | 284 | 0 | 11,680 | 221 | 1,642 | 2,696 | 539 | 0 | 362 |
| 128 | U. Houston | 17,138 | 0 | 0 | 8,045 | 0 | 791 | 6,827 | 1,104 | 0 | 371 |
| 129 | OR State U. | 16,723 | 0 | 30 | 13,821 | 0 | 1,439 | 309 | 86 | 689 | 349 |
| 130 | U. CA, Santa Cruz | 16,232 | 103 | 640 | 6,005 | 0 | 4,378 | 441 | 0 | 0 | 4,665 |
| 131 | U. Toledo | 16,066 | 0 | 0 | 15,429 | 0 | 266 | 159 | 0 | 0 | 212 |
| 132 | FL International U. | 15,981 | 0 | 0 | 11,200 | 0 | 886 | 1,695 | 1,985 | 0 | 215 |
| 133 | U. North TX Health Science Ctr. Ft. Worth | 15,897 | 0 | 0 | 15,897 | 0 | 0 | 0 | 0 | 0 | 0 |
| 134 | NC State U. | 15,647 | 0 | 0 | 9,752 | 2,133 | 1,348 | 0 | 538 | 428 | 1,448 |
| 135 | VA Polytechnic Institute and State U. | 15,423 | 479 | 0 | 9,148 | 0 | 1,641 | 826 | 40 | 0 | 3,289 |
| 136 | FL State U. | 15,353 | 198 | 0 | 9,228 | 398 | 1,678 | 2,296 | 1,187 | 0 | 368 |
| 137 | U. SD | 14,087 | 0 | 0 | 13,983 | 0 | 0 | 104 | 0 | 0 | 0 |
| 138 | U. CA, Riverside | 14,027 | 0 | 0 | 10,186 | 0 | 968 | 2,120 | 458 | 0 | 295 |
| 139 | U. MO-Kansas City | 13,590 | 0 | 0 | 12,365 | 0 | 566 | 659 | 0 | 0 | 0 |
| 140 | Uniformed Services U. of the Health Sciences | 13,384 | 0 | 0 | 13,384 | 0 | 0 | 0 | 0 | 0 | 0 |
| 141 | U. TX San Antonio | 13,014 | 0 | 0 | 10,943 | 0 | 816 | 3 | 632 | 0 | 620 |
| 142 | Loma Linda U. | 13,011 | 0 | 0 | 12,894 | 0 | 0 | 0 | 117 | 0 | 0 |
| 143 | Northeastern U. | 12,336 | 103 | 0 | 7,065 | 0 | 2,935 | 1,451 | 0 | 0 | 782 |
| 144 | CUNY Hunter C. | 12,176 | 0 | 0 | 5,838 | 0 | 2,104 | 4,047 | 187 | 0 | 0 |
| 145 | Wright State U. all campuses | 11,858 | 58 | 0 | 11,415 | 181 | 0 | 107 | 92 | 0 | 5 |
| 146 | U. RI | 11,481 | 9 | 18 | 7,596 | 0 | 0 | 445 | 0 | 3,262 | 151 |
| 147 | U. Southern ME | 11,407 | 22 | 0 | 6,486 | 0 | 0 | 64 | 4,835 | 0 | 0 |
| 148 | IL Institute of Technology | 11,380 | 0 | 0 | 8,246 | 0 | 553 | 558 | 0 | 0 | 2,023 |
| 149 | Jackson State U. | 11,131 | 0 | 1,530 | 5,777 | 0 | 27 | 380 | 0 | 3,417 | 0 |
| 150 | U. South AL | 10,432 | 0 | 3 | 10,184 | 28 | 0 | 217 | 0 | 0 | 0 |
| 151 | Rensselaer Polytechnic Institute | 10,282 | 130 | 101 | 1,474 | 240 | 3,354 | 0 | 0 | 0 | 4,983 |
| 152 | U. ND all campuses | 10,247 | 0 | 0 | 10,017 | 0 | 14 | 11 | 0 | 0 | 205 |
| 153 | GA State U. | 10,210 | 0 | 0 | 6,186 | 15 | 1,518 | 1,466 | 1,025 | 0 | 0 |
| 154 | NM State U. main campus | 10,071 | 18 | 0 | 2,579 | 0 | 5,952 | 177 | 1,085 | 137 | 123 |

Appendix O. Federally Financed R&D Expenditures at Universities and Colleges, Financed by the Department of Health and Human Services, Ranked by HHS R&D Expenditures, by Science and Engineering Field: FY 2007

(Dollars in Thousands)

| Rank | Institution | HHS R&D expenditures | Comp. sciences | Environ. Sciences | Life sciences | Mathem. Sciences | Physical sciences | Psych. | Social sciences | Sciences nec | Engg. |
|------------|--|----------------------|----------------|-------------------|---------------|------------------|-------------------|-----------|-----------------|--------------|--------------|
| 155 | U. ID | 10,041 | 0 | 0 | 9,617 | 411 | 0 | 13 | 0 | 0 | 0 |
| 156 | U. MT-Missoula, The | 9,991 | 0 | 0 | 9,053 | 0 | 579 | 285 | 74 | 0 | 0 |
| 157 | Creighton U. | 9,886 | 0 | 0 | 9,703 | 0 | 148 | 35 | 0 | 0 | 0 |
| 158 | UT State U. | 9,849 | 14 | 0 | 7,356 | 0 | 842 | 1,541 | 19 | 0 | 77 |
| 159 | Southern IL U. Carbondale | 9,615 | 0 | 0 | 7,934 | 0 | 961 | 658 | 62 | 0 | 0 |
| 160 | CUNY The City C. | 9,429 | 0 | 0 | 5,845 | 0 | 867 | 109 | 0 | 0 | 2,608 |
| 161 | Albany Medical C. | 9,356 | 0 | 0 | 9,356 | 0 | 0 | 0 | 0 | 0 | 0 |
| 162 | U. TX El Paso | 9,320 | 0 | 565 | 6,880 | 299 | 904 | 483 | 0 | 0 | 189 |
| 163 | Rice U. | 8,775 | 106 | 0 | 2,775 | 88 | 541 | 346 | 184 | 0 | 4,735 |
| 164 | Universidad Central del Caribe | 7,783 | 0 | 0 | 7,783 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | Rosalind Franklin U. of Medicine and Science | 7,624 | 0 | 0 | 7,121 | 0 | 0 | 503 | 0 | 0 | 0 |
| 166 | San Francisco State U. | 7,386 | 0 | 0 | 4,110 | 48 | 1,179 | 1,121 | 928 | 0 | 0 |
| 167 | East Carolina U. | 7,257 | 0 | 245 | 6,610 | 0 | 278 | 124 | 0 | 0 | 0 |
| 168 | Syracuse U. all campuses | 7,018 | 108 | 0 | 134 | 0 | 393 | 4,964 | 489 | 0 | 930 |
| 169 | U. Memphis, The | 6,995 | 0 | 0 | 1,999 | 86 | 373 | 949 | 2,999 | 0 | 589 |
| 170 | TX Tech U. Health Science Ctr. | 6,803 | 0 | 0 | 6,803 | 0 | 0 | 0 | 0 | 0 | 0 |
| 171 | OK State U. all campuses | 6,781 | 0 | 0 | 5,628 | 0 | 58 | 0 | 472 | 9 | 614 |
| 172 | U. WI Milwaukee | 6,489 | 0 | 1,152 | 1,817 | 13 | 842 | 709 | 1,126 | 0 | 830 |
| 173 | Marshall U. | 6,476 | 0 | 0 | 6,476 | 0 | 0 | 0 | 0 | 0 | 0 |
| 174 | U. WY | 6,122 | 0 | 0 | 5,409 | 0 | 74 | 282 | 230 | 0 | 127 |
| 175 | U. TX Dallas | 5,874 | 909 | 43 | 986 | 26 | 1,493 | 789 | 236 | 127 | 1,265 |
| 176 | Wichita State U. | 5,866 | 0 | 0 | 3,970 | 0 | 238 | 1,638 | 0 | 0 | 20 |
| 177 | U. Central FL | 5,595 | 0 | 0 | 726 | 0 | 933 | 0 | 404 | 232 | 3,300 |
| 178 | Boston C. | 5,497 | 0 | 0 | 2,113 | 0 | 1,713 | 116 | 1,555 | 0 | 0 |
| 179 | Eastern VA Medical School | 5,473 | 0 | 0 | 5,473 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | U. PR Rio Piedras Campus | 5,158 | 0 | 0 | 1,070 | 115 | 2,868 | 971 | 18 | 116 | 0 |
| 181 | U. MA Lowell | 5,030 | 0 | 0 | 1,670 | 0 | 50 | 35 | 122 | 0 | 3,153 |
| 182 | Auburn U. all campuses | 4,850 | 0 | 0 | 500 | 14 | 1,328 | 388 | 1,973 | 0 | 647 |
| 183 | CA State U. Los Angeles | 4,778 | 0 | 0 | 3,592 | 0 | 1,186 | 0 | 0 | 0 | 0 |
| 184 | U. AL, The | 4,776 | 119 | 0 | 1,862 | 0 | 234 | 1,245 | 1,316 | 0 | 0 |
| 185 | MS State U. | 4,763 | 0 | 0 | 3,195 | 49 | 162 | 386 | 930 | 0 | 41 |
| 186 | FL Atlantic U. | 4,735 | 0 | 0 | 2,521 | 0 | 921 | 479 | 0 | 814 | 0 |
| 187 | U. Southern MS | 4,585 | 0 | 0 | 4,345 | 0 | 99 | 141 | 0 | 0 | 0 |
| 188 | U. Denver | 4,501 | 0 | 0 | 1,082 | 0 | 992 | 2,321 | 0 | 0 | 106 |
| 189 | East TN State U. | 4,331 | 0 | 0 | 4,248 | 0 | 0 | 83 | 0 | 0 | 0 |
| 190 | ND State U. all campuses | 4,303 | 0 | 0 | 1,616 | 0 | 598 | 2,031 | 24 | 0 | 34 |
| 191 | Drexel U. | 4,243 | 0 | 0 | 4,015 | 0 | 0 | 0 | 0 | 0 | 228 |
| 192 | Portland State U. | 4,243 | 63 | 0 | 2,892 | 0 | 86 | 680 | 517 | 0 | 5 |
| 193 | Tuskegee U. | 4,202 | 0 | 0 | 2,844 | 0 | 0 | 0 | 1,358 | 0 | 0 |
| 194 | U. ME | 4,141 | 0 | 191 | 487 | 80 | 418 | 1,011 | 1,895 | 0 | 59 |
| 195 | U. AR main campus | 4,114 | 0 | 0 | 1,224 | 0 | 2,767 | 16 | 0 | 0 | 107 |
| 196 | SUNY Binghamton | 3,865 | 0 | 0 | 465 | 0 | 0 | 2,977 | 423 | 0 | 0 |
| 197 | Kent State U. all campuses | 3,779 | 0 | 0 | 1,353 | 0 | 669 | 1,536 | 221 | 0 | 0 |
| 198 | Clemson U. | 3,772 | 0 | 0 | 1,888 | 0 | 233 | 0 | 443 | 0 | 1,208 |
| 199 | NC Central U. | 3,739 | 0 | 0 | 3,739 | 0 | 0 | 0 | 0 | 0 | 0 |
| 200 | Brigham Young U. all campuses | 3,738 | 0 | 0 | 2,264 | 19 | 643 | 392 | 0 | 0 | 420 |
| 201 | U. NC Charlotte | 3,709 | 617 | 0 | 2,405 | 0 | 372 | 231 | 0 | 0 | 84 |
| 202 | U. NH | 3,689 | 0 | 104 | 1,322 | 0 | 1,810 | 104 | 263 | 0 | 86 |
| 203 | U. LA Lafayette | 3,670 | 0 | 0 | 3,670 | 0 | 0 | 0 | 0 | 0 | 0 |
| 204 | CUNY Brooklyn C. | 3,533 | 520 | 0 | 1,099 | 0 | 617 | 1,297 | 0 | 0 | 0 |
| 205 | CA State U. Northridge | 3,422 | 0 | 0 | 757 | 0 | 836 | 563 | 0 | 1,266 | 0 |

Appendix O. Federally Financed R&D Expenditures at Universities and Colleges, Financed by the Department of Health and Human Services, Ranked by HHS R&D Expenditures, by Science and Engineering Field: FY 2007

(Dollars in Thousands)

| Rank | Institution | HHS R&D expenditures | Comp. sciences | Environ. Sciences | Life sciences | Mathem. Sciences | Physical sciences | Psych. | Social sciences | Sciences nec | Engg. |
|------------|---|----------------------|----------------|-------------------|---------------|------------------|-------------------|------------|-----------------|--------------|----------|
| 206 | Teachers C. Columbia U. | 3,400 | 0 | 0 | 790 | 0 | 0 | 2,610 | 0 | 0 | 0 |
| 207 | Wesleyan U. | 3,351 | 0 | 0 | 2,046 | 0 | 850 | 455 | 0 | 0 | 0 |
| 208 | U. NC Greensboro | 3,175 | 0 | 0 | 1,591 | 0 | 319 | 1,011 | 254 | 0 | 0 |
| 209 | CUNY Herbert H. Lehman C. | 3,156 | 0 | 0 | 1,307 | 0 | 0 | 1,849 | 0 | 0 | 0 |
| 210 | Morehouse C. | 3,129 | 0 | 0 | 483 | 0 | 0 | 464 | 2,182 | 0 | 0 |
| 211 | Marquette U. | 3,042 | 0 | 0 | 2,201 | 66 | 274 | 87 | 51 | 0 | 363 |
| 212 | CA State U. Long Beach | 2,941 | 0 | 0 | 1,310 | 0 | 702 | 450 | 0 | 479 | 0 |
| 213 | U. DC | 2,917 | 0 | 0 | 516 | 0 | 464 | 0 | 1,070 | 0 | 867 |
| 214 | Lehigh U. | 2,792 | 0 | 0 | 1,354 | 0 | 1,056 | 256 | 14 | 0 | 112 |
| 215 | U. PR Humacao | 2,730 | 0 | 0 | 100 | 0 | 2,630 | 0 | 0 | 0 | 0 |
| 216 | U. MA Boston | 2,667 | 0 | 0 | 1,224 | 0 | 105 | 644 | 694 | 0 | 0 |
| 217 | Spelman C. | 2,645 | 192 | 0 | 1,983 | 0 | 440 | 9 | 21 | 0 | 0 |
| 218 | Morgan State U. | 2,632 | 0 | 0 | 574 | 1,232 | 197 | 0 | 629 | 0 | 0 |
| 219 | U. MD Baltimore County | 2,606 | 145 | 0 | 226 | 98 | 826 | 12 | 442 | 0 | 857 |
| 220 | George Mason U. | 2,578 | 0 | 0 | 735 | 119 | 185 | 1,358 | 181 | 0 | 0 |
| 221 | TX Christian U. | 2,554 | 0 | 39 | 74 | 0 | 203 | 2,238 | 0 | 0 | 0 |
| 222 | Northeastern OH Universities C. of Medicine | 2,553 | 0 | 0 | 2,553 | 0 | 0 | 0 | 0 | 0 | 0 |
| 223 | U. TX Arlington | 2,506 | 34 | 0 | 259 | 0 | 935 | 668 | 0 | 0 | 610 |
| 224 | CUNY York C. | 2,468 | 0 | 0 | 2,468 | 0 | 0 | 0 | 0 | 0 | 0 |
| 225 | Southern Methodist U. | 2,400 | 0 | 0 | 1,490 | 14 | 3 | 748 | 15 | 0 | 130 |
| 226 | Ball State U. | 2,387 | 0 | 0 | 1,862 | 0 | 71 | 3 | 451 | 0 | 0 |
| 227 | Xavier U. LA | 2,318 | 0 | 0 | 1,200 | 0 | 1,106 | 12 | 0 | 0 | 0 |
| 228 | Rochester Institute of Technology | 2,313 | 0 | 0 | 1,718 | 0 | 89 | 0 | 68 | 0 | 438 |
| 229 | Duquesne U. | 2,269 | 0 | 0 | 1,990 | 0 | 279 | 0 | 0 | 0 | 0 |
| 230 | ID State U. | 2,253 | 0 | 0 | 2,253 | 0 | 0 | 0 | 0 | 0 | 0 |
| 231 | SUNY C. of Optometry | 2,164 | 0 | 0 | 2,164 | 0 | 0 | 0 | 0 | 0 | 0 |
| 232 | FL Institute of Technology | 2,108 | 266 | 68 | 267 | 4 | 737 | 0 | 0 | 0 | 766 |
| 233 | TX Tech U. | 2,104 | 0 | 304 | 465 | 31 | 529 | 143 | 509 | 0 | 123 |
| 234 | Chicago State U. | 1,993 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,993 | 0 |
| 235 | U. Akron all campuses | 1,985 | 0 | 0 | 1,033 | 23 | 131 | 45 | 753 | 0 | 0 |
| 236 | Oakland U. | 1,966 | 0 | 0 | 873 | 0 | 917 | 76 | 0 | 0 | 100 |
| 237 | CA State Polytechnic U. Pomona | 1,935 | 0 | 0 | 1,935 | 0 | 0 | 0 | 0 | 0 | 0 |
| 238 | Fordham U. | 1,927 | 0 | 0 | 1,613 | 0 | 0 | 155 | 159 | 0 | 0 |
| 239 | Western MI U. | 1,896 | 0 | 0 | 1,618 | 0 | 119 | 0 | 159 | 0 | 0 |
| 240 | Northern IL U. | 1,880 | 0 | 0 | 970 | 0 | 281 | 532 | 97 | 0 | 0 |
| 241 | TX A&M U. Kingsville | 1,874 | 0 | 0 | 1,846 | 0 | 28 | 0 | 0 | 0 | 0 |
| 242 | Black Hills State U. | 1,842 | 0 | 0 | 1,696 | 0 | 0 | 146 | 0 | 0 | 0 |
| 243 | Shaw U. | 1,826 | 0 | 209 | 1,289 | 0 | 328 | 0 | 0 | 0 | 0 |
| 244 | Wellesley C. | 1,806 | 85 | 25 | 607 | 0 | 94 | 0 | 0 | 995 | 0 |
| 245 | Clark Atlanta U. | 1,788 | 0 | 0 | 1,788 | 0 | 0 | 0 | 0 | 0 | 0 |
| 246 | Northern AZ U. | 1,778 | 0 | 0 | 1,778 | 0 | 0 | 0 | 0 | 0 | 0 |
| 247 | Woods Hole Oceanographic Institution | 1,759 | 0 | 1,759 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 248 | U. of the VI | 1,757 | 0 | 0 | 879 | 0 | 0 | 0 | 878 | 0 | 0 |
| 249 | TN State U. | 1,749 | 0 | 0 | 1,749 | 0 | 0 | 0 | 0 | 0 | 0 |
| 250 | Old Dominion U. | 1,731 | 0 | 0 | 947 | 0 | 218 | 130 | 253 | 0 | 183 |
| 251 | Catholic U. America, The | 1,727 | 0 | 0 | 1,371 | 0 | 73 | 233 | 0 | 0 | 50 |
| 252 | Boise State U. | 1,722 | 0 | 0 | 1,581 | 0 | 86 | 0 | 0 | 0 | 55 |
| 253 | U. NV, Las Vegas | 1,716 | 0 | 0 | 1,507 | 0 | 208 | 1 | 0 | 0 | 0 |
| 254 | Bowling Green State U. all campuses | 1,682 | 0 | 0 | 291 | 0 | 212 | 270 | 904 | 0 | 5 |
| 255 | AL State U. | 1,667 | 0 | 0 | 1,612 | 0 | 0 | 0 | 55 | 0 | 0 |
| 256 | Nova Southeastern U. | 1,598 | 0 | 0 | 1,252 | 0 | 0 | 346 | 0 | 0 | 0 |
| 257 | CUNY Queens C. | 1,585 | 0 | 0 | 327 | 0 | 290 | 937 | 31 | 0 | 0 |

Appendix O. Federally Financed R&D Expenditures at Universities and Colleges, Financed by the Department of Health and Human Services, Ranked by HHS R&D Expenditures, by Science and Engineering Field: FY 2007

(Dollars in Thousands)

| Rank | Institution | HHS R&D expenditures | Comp. sciences | Environ. Sciences | Life sciences | Mathem. Sciences | Physical sciences | Psych. | Social sciences | Sciences nec | Engg. |
|------|--|----------------------|----------------|-------------------|---------------|------------------|-------------------|--------|-----------------|--------------|-------|
| 258 | Cleveland State U. | 1,527 | 0 | 0 | 922 | 0 | 72 | 24 | 341 | 0 | 168 |
| 259 | PA C. of Optometry | 1,500 | 0 | 0 | 1,500 | 0 | 0 | 0 | 0 | 0 | 0 |
| 260 | SD State U. | 1,492 | 0 | 70 | 1,421 | 0 | 0 | 0 | 0 | 0 | 1 |
| 261 | St. John's U. (Jamaica, NY) | 1,477 | 0 | 0 | 542 | 0 | 28 | 907 | 0 | 0 | 0 |
| 262 | DE State U. | 1,405 | 0 | 0 | 1,405 | 0 | 0 | 0 | 0 | 0 | 0 |
| 263 | Hampton U. | 1,396 | 0 | 0 | 1,150 | 0 | 246 | 0 | 0 | 0 | 0 |
| 264 | Dillard U. | 1,393 | 0 | 0 | 0 | 0 | 0 | 0 | 1,393 | 0 | 0 |
| 265 | U. MD Eastern Shore | 1,352 | 0 | 0 | 1,248 | 0 | 104 | 0 | 0 | 0 | 0 |
| 266 | CA State U. Fullerton | 1,344 | 0 | 0 | 1,344 | 0 | 0 | 0 | 0 | 0 | 0 |
| 267 | SUNY C. Old Westbury | 1,339 | 0 | 0 | 1,014 | 0 | 325 | 0 | 0 | 0 | 0 |
| 268 | CUNY Graduate Ctr. | 1,322 | 339 | 0 | 0 | 0 | 0 | 146 | 40 | 797 | 0 |
| 269 | IL State U. | 1,300 | 0 | 0 | 1,204 | 0 | 50 | 43 | 3 | 0 | 0 |
| 270 | Northwestern Health Sciences U. | 1,289 | 0 | 0 | 1,289 | 0 | 0 | 0 | 0 | 0 | 0 |
| 271 | C. of William and Mary all campuses | 1,262 | 0 | 204 | 477 | 0 | 99 | 184 | 14 | 284 | 0 |
| 272 | Barnard C. | 1,258 | 0 | 89 | 0 | 0 | 64 | 1,105 | 0 | 0 | 0 |
| 273 | U. NC Wilmington | 1,227 | 0 | 17 | 427 | 0 | 100 | 683 | 0 | 0 | 0 |
| 274 | DePaul U. | 1,220 | 97 | 0 | 46 | 0 | 0 | 1,042 | 35 | 0 | 0 |
| 275 | Mercer U. all campuses | 1,213 | 0 | 0 | 1,213 | 0 | 0 | 0 | 0 | 0 | 0 |
| 276 | U. GU | 1,203 | 0 | 0 | 1,203 | 0 | 0 | 0 | 0 | 0 | 0 |
| 277 | San Jose State U. | 1,190 | 0 | 0 | 236 | 0 | 921 | 0 | 0 | 33 | 0 |
| 278 | CA State U. Dominguez Hills | 1,112 | 0 | 0 | 782 | 0 | 176 | 97 | 57 | 0 | 0 |
| 279 | MI Technological U. | 1,108 | 0 | 0 | 0 | 335 | 215 | 0 | 0 | 0 | 558 |
| 280 | U. Tulsa | 1,078 | 1 | 0 | 460 | 0 | 192 | 418 | 7 | 0 | 0 |
| 281 | Fayetteville State U. | 1,076 | 0 | 0 | 426 | 0 | 0 | 0 | 650 | 0 | 0 |
| 282 | NC Agricultural and Technical State U. | 1,061 | 0 | 0 | 897 | 0 | 97 | 0 | 67 | 0 | 0 |
| 283 | Seton Hall U. | 1,057 | 0 | 0 | 1,057 | 0 | 0 | 0 | 0 | 0 | 0 |
| 284 | U. MO-St. Louis | 1,020 | 0 | 0 | 170 | 0 | 704 | 146 | 0 | 0 | 0 |
| 285 | Governors State U. | 1,002 | 0 | 0 | 1,002 | 0 | 0 | 0 | 0 | 0 | 0 |
| 286 | Clark U. | 1,000 | 0 | 244 | 92 | 0 | 61 | 603 | 0 | 0 | 0 |
| 287 | Tougaloo C. | 984 | 0 | 0 | 984 | 0 | 0 | 0 | 0 | 0 | 0 |
| 288 | CO School of Mines | 971 | 0 | 0 | 0 | 0 | 389 | 0 | 0 | 379 | 203 |
| 289 | Smith C. | 969 | 0 | 0 | 264 | 26 | 0 | 367 | 0 | 0 | 312 |
| 290 | Albany State U. | 952 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 952 |
| 291 | Benedict C. | 928 | 0 | 0 | 928 | 0 | 0 | 0 | 0 | 0 | 0 |
| 292 | CA State U. San Bernardino | 922 | 0 | 0 | 131 | 0 | 293 | 498 | 0 | 0 | 0 |
| 293 | Worcester Polytechnic Institute | 916 | 151 | 0 | 40 | 278 | 0 | 0 | 0 | 0 | 447 |
| 294 | CA State U. East Bay | 910 | 0 | 0 | 724 | 0 | 176 | 0 | 0 | 10 | 0 |
| 295 | Norfolk State U. | 874 | 0 | 0 | 38 | 0 | 836 | 0 | 0 | 0 | 0 |
| 296 | Western KY U. | 828 | 0 | 0 | 506 | 2 | 55 | 265 | 0 | 0 | 0 |
| 297 | MT Tech of the U. MT | 797 | 0 | 1 | 561 | 0 | 235 | 0 | 0 | 0 | 0 |
| 298 | U. TX-Pan American | 766 | 0 | 0 | 766 | 0 | 0 | 0 | 0 | 0 | 0 |
| 299 | CUNY John Jay C. of Criminal Justice | 762 | 0 | 0 | 0 | 0 | 0 | 762 | 0 | 0 | 0 |
| 300 | FL A&M U. | 753 | 0 | 353 | 375 | 0 | 0 | 0 | 0 | 0 | 25 |
| 301 | Midwestern U. (Chicago, IL) | 714 | 0 | 0 | 714 | 0 | 0 | 0 | 0 | 0 | 0 |
| 302 | U. AL Huntsville, The | 685 | 0 | 0 | 237 | 0 | 448 | 0 | 0 | 0 | 0 |
| 303 | Bowdoin C. | 675 | 0 | 0 | 660 | 0 | 0 | 0 | 15 | 0 | 0 |
| 304 | Western U. of Health Sciences | 646 | 0 | 0 | 646 | 0 | 0 | 0 | 0 | 0 | 0 |
| 305 | C. Charleston | 610 | 0 | 5 | 605 | 0 | 0 | 0 | 0 | 0 | 0 |
| 306 | Middlebury C. | 608 | 0 | 0 | 608 | 0 | 0 | 0 | 0 | 0 | 0 |
| 307 | TX Woman's U. | 608 | 0 | 0 | 567 | 0 | 0 | 0 | 32 | 9 | 0 |
| 308 | SUNY C. Oswego | 606 | 0 | 0 | 0 | 0 | 0 | 606 | 0 | 0 | 0 |
| 309 | CUNY C. Staten Island | 586 | 0 | 0 | 3 | 0 | 583 | 0 | 0 | 0 | 0 |
| 310 | IN State U. all campuses | 581 | 0 | 0 | 0 | 0 | 105 | 476 | 0 | 0 | 0 |

Appendix O. Federally Financed R&D Expenditures at Universities and Colleges, Financed by the Department of Health and Human Services, Ranked by HHS R&D Expenditures, by Science and Engineering Field: FY 2007

(Dollars in Thousands)

| Rank | Institution | HHS R&D expenditures | Comp. sciences | Environ. Sciences | Life sciences | Mathem. Sciences | Physical sciences | Psych. | Social sciences | Sciences nec | Engg. |
|------|---|----------------------|----------------|-------------------|---------------|------------------|-------------------|--------|-----------------|--------------|-------|
| 311 | NM Highlands U. | 578 | 0 | 0 | 173 | 0 | 405 | 0 | 0 | 0 | 0 |
| 312 | SUNY C. Buffalo | 576 | 0 | 0 | 0 | 0 | 0 | 134 | 442 | 0 | 0 |
| 313 | Philadelphia C. of Osteopathic Medicine | 560 | 0 | 0 | 560 | 0 | 0 | 0 | 0 | 0 | 0 |
| 314 | U. Central AR | 557 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 315 | Furman U. | 556 | 0 | 0 | 79 | 0 | 345 | 132 | 0 | 0 | 0 |
| 316 | U. North TX | 553 | 0 | 0 | 525 | 0 | 0 | 0 | 28 | 0 | 0 |
| 317 | Bates C. | 552 | 0 | 0 | 488 | 0 | 64 | 0 | 0 | 0 | 0 |
| 318 | U. HI Hilo | 551 | 0 | 0 | 551 | 0 | 0 | 0 | 0 | 0 | 0 |
| 319 | Clarkson U. | 531 | 0 | 0 | 182 | 0 | 36 | 0 | 0 | 0 | 313 |
| 320 | Millsaps C. | 529 | 0 | 0 | 529 | 0 | 0 | 0 | 0 | 0 | 0 |
| 321 | Northern KY U. | 509 | 0 | 0 | 304 | 0 | 29 | 176 | 0 | 0 | 0 |
| 322 | Colby C. | 495 | 146 | 0 | 256 | 71 | 16 | 6 | 0 | 0 | 0 |
| 323 | U. Dayton | 492 | 0 | 0 | 492 | 0 | 0 | 0 | 0 | 0 | 0 |
| 324 | Rowan U. | 490 | 0 | 0 | 0 | 0 | 0 | 490 | 0 | 0 | 0 |
| 325 | Pomona C. | 484 | 0 | 0 | 37 | 0 | 90 | 357 | 0 | 0 | 0 |
| 326 | Western WA U. | 479 | 0 | 0 | 0 | 0 | 38 | 53 | 114 | 274 | 0 |
| 327 | Southwest MO State U. | 473 | 0 | 0 | 473 | 0 | 0 | 0 | 0 | 0 | 0 |
| 328 | U. WI La Crosse | 462 | 86 | 0 | 348 | 0 | 21 | 0 | 0 | 7 | 0 |
| 329 | Central MI U. | 455 | 0 | 0 | 148 | 0 | 168 | 139 | 0 | 0 | 0 |
| 330 | Mt. St. Mary's C. (Los Angeles, CA) | 454 | 0 | 0 | 454 | 0 | 0 | 0 | 0 | 0 | 0 |
| 331 | Loyola Marymount U. | 453 | 0 | 0 | 185 | 31 | 0 | 237 | 0 | 0 | 0 |
| 332 | SUNY C. Plattsburgh | 441 | 0 | 0 | 0 | 0 | 441 | 0 | 0 | 0 | 0 |
| 333 | Roger Williams U. Bristol | 434 | 0 | 0 | 434 | 0 | 0 | 0 | 0 | 0 | 0 |
| 334 | U. MO-Rolla | 433 | 0 | 0 | 0 | 0 | 189 | 0 | 0 | 0 | 244 |
| 335 | U. of the Pacific | 420 | 8 | 0 | 412 | 0 | 0 | 0 | 0 | 0 | 0 |
| 336 | MT State U. Billings | 408 | 0 | 0 | 408 | 0 | 0 | 0 | 0 | 0 | 0 |
| 337 | GA Southern U. | 405 | 0 | 0 | 405 | 0 | 0 | 0 | 0 | 0 | 0 |
| 338 | Milwaukee School of Engineering | 400 | 0 | 0 | 381 | 0 | 0 | 0 | 0 | 0 | 19 |
| 339 | Bluefield State C. | 396 | 0 | 0 | 396 | 0 | 0 | 0 | 0 | 0 | 0 |
| 340 | Savannah State U. | 396 | 0 | 0 | 396 | 0 | 0 | 0 | 0 | 0 | 0 |
| 341 | Eastern MI U. | 393 | 0 | 0 | 52 | 0 | 263 | 78 | 0 | 0 | 0 |
| 342 | AR State U. main campus | 392 | 17 | 0 | 238 | 0 | 82 | 0 | 0 | 0 | 55 |
| 343 | LA Tech U. | 375 | 244 | 0 | 102 | 0 | 6 | 0 | 0 | 0 | 23 |
| 344 | Reed C. | 371 | 0 | 0 | 114 | 0 | 62 | 195 | 0 | 0 | 0 |
| 345 | Calvin C. | 369 | 0 | 0 | 134 | 0 | 149 | 86 | 0 | 0 | 0 |
| 346 | Prairie View A&M U. | 367 | 0 | 0 | 260 | 0 | 107 | 0 | 0 | 0 | 0 |
| 347 | C. of the Holy Cross | 353 | 0 | 0 | 73 | 0 | 0 | 280 | 0 | 0 | 0 |
| 348 | National U. of Health Sciences | 351 | 0 | 0 | 351 | 0 | 0 | 0 | 0 | 0 | 0 |
| 349 | Morehead State U. | 347 | 0 | 0 | 127 | 0 | 0 | 220 | 0 | 0 | 0 |
| 350 | James Madison U. | 337 | 0 | 0 | 282 | 0 | 0 | 55 | 0 | 0 | 0 |
| 351 | Hamilton C. (Clinton, NY) | 335 | 0 | 0 | 154 | 0 | 0 | 181 | 0 | 0 | 0 |
| 352 | U. New England | 328 | 0 | 0 | 328 | 0 | 0 | 0 | 0 | 0 | 0 |
| 353 | Bryn Mawr C. | 327 | 0 | 0 | 107 | 0 | 81 | 139 | 0 | 0 | 0 |
| 354 | Stevens Institute of Technology | 327 | 0 | 0 | 289 | 0 | 0 | 0 | 0 | 0 | 38 |
| 355 | Alcorn State U. | 322 | 0 | 0 | 322 | 0 | 0 | 0 | 0 | 0 | 0 |
| 356 | Southeastern OK State U. | 319 | 0 | 0 | 48 | 0 | 271 | 0 | 0 | 0 | 0 |
| 357 | CT C. | 318 | 0 | 0 | 59 | 0 | 139 | 120 | 0 | 0 | 0 |
| 358 | U. of the Sciences Philadelphia | 316 | 0 | 0 | 244 | 0 | 72 | 0 | 0 | 0 | 0 |
| 359 | TX Southern U. | 315 | 0 | 0 | 315 | 0 | 0 | 0 | 0 | 0 | 0 |
| 360 | AL A&M U. | 314 | 0 | 0 | 0 | 0 | 196 | 0 | 0 | 51 | 67 |
| 361 | West Liberty State C. | 310 | 0 | 0 | 310 | 0 | 0 | 0 | 0 | 0 | 0 |
| 362 | Southern U. and A&M C. all campuses | 302 | 0 | 0 | 180 | 0 | 122 | 0 | 0 | 0 | 0 |

Appendix O. Federally Financed R&D Expenditures at Universities and Colleges, Financed by the Department of Health and Human Services, Ranked by HHS R&D Expenditures, by Science and Engineering Field: FY 2007

(Dollars in Thousands)

| Rank | Institution | HHS R&D expenditures | Comp. sciences | Environ. Sciences | Life sciences | Mathem. Sciences | Physical sciences | Psych. | Social sciences | Sciences nec | Engg. |
|------|---|----------------------|----------------|-------------------|---------------|------------------|-------------------|--------|-----------------|--------------|-------|
| 363 | CA State U. Fresno | 299 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 364 | U. North FL | 297 | 0 | 0 | 282 | 6 | 0 | 0 | 9 | 0 | 0 |
| 365 | American U. | 295 | 0 | 0 | 0 | 0 | 0 | 280 | 15 | 0 | 0 |
| 366 | Pace U. all campuses | 294 | 0 | 0 | 294 | 0 | 0 | 0 | 0 | 0 | 0 |
| 367 | Maharishi U. of Management | 280 | 0 | 0 | 280 | 0 | 0 | 0 | 0 | 0 | 0 |
| 368 | U. CA, Merced | 270 | 0 | 0 | 270 | 0 | 0 | 0 | 0 | 0 | 0 |
| 369 | Elizabeth City State U. | 266 | 0 | 0 | 266 | 0 | 0 | 0 | 0 | 0 | 0 |
| 370 | Albany C. of Pharmacy | 249 | 0 | 0 | 249 | 0 | 0 | 0 | 0 | 0 | 0 |
| 371 | Lincoln U. (Lincoln University, PA) | 249 | 0 | 0 | 210 | 0 | 39 | 0 | 0 | 0 | 0 |
| 372 | U. NC Pembroke | 242 | 0 | 0 | 0 | 0 | 242 | 0 | 0 | 0 | 0 |
| 373 | U. San Francisco | 240 | 0 | 0 | 63 | 0 | 0 | 177 | 0 | 0 | 0 |
| 374 | U. LA Monroe | 236 | 0 | 0 | 236 | 0 | 0 | 0 | 0 | 0 | 0 |
| 375 | U. MA Dartmouth | 233 | 0 | 0 | 101 | 0 | 99 | 0 | 0 | 0 | 33 |
| 376 | Hope C. | 228 | 0 | 0 | 228 | 0 | 0 | 0 | 0 | 0 | 0 |
| 377 | Claremont Graduate U. | 225 | 0 | 0 | 0 | 0 | 0 | 225 | 0 | 0 | 0 |
| 378 | Mayville State U. | 224 | 0 | 0 | 224 | 0 | 0 | 0 | 0 | 0 | 0 |
| 379 | Simmons C. | 220 | 0 | 0 | 36 | 0 | 0 | 0 | 22 | 162 | 0 |
| 380 | U. Northern CO | 216 | 0 | 0 | 131 | 10 | 0 | 0 | 75 | 0 | 0 |
| 381 | WV State U. | 214 | 0 | 0 | 214 | 0 | 0 | 0 | 0 | 0 | 0 |
| 382 | Davidson C. | 211 | 0 | 0 | 211 | 0 | 0 | 0 | 0 | 0 | 0 |
| 383 | Heritage U. (Toppenish, WA) | 210 | 0 | 0 | 210 | 0 | 0 | 0 | 0 | 0 | 0 |
| 384 | Adelphi U. | 208 | 0 | 0 | 208 | 0 | 0 | 0 | 0 | 0 | 0 |
| 385 | U. West FL | 206 | 0 | 0 | 206 | 0 | 0 | 0 | 0 | 0 | 0 |
| 386 | Carlos Albizu U. (San Juan, PR) | 202 | 0 | 0 | 0 | 0 | 0 | 202 | 0 | 0 | 0 |
| 387 | Hendrix C. | 201 | 0 | 0 | 0 | 0 | 201 | 0 | 0 | 0 | 0 |
| 388 | Eastern KY U. | 193 | 0 | 0 | 12 | 0 | 181 | 0 | 0 | 0 | 0 |
| 389 | Central CT State U. | 186 | 0 | 0 | 186 | 0 | 0 | 0 | 0 | 0 | 0 |
| 390 | Baylor U. | 182 | 0 | 0 | 54 | 0 | 25 | 103 | 0 | 0 | 0 |
| 391 | OH Wesleyan U. | 182 | 0 | 0 | 44 | 0 | 0 | 138 | 0 | 0 | 0 |
| 392 | Fairfield U. | 173 | 0 | 0 | 163 | 0 | 0 | 10 | 0 | 0 | 0 |
| 393 | U. of St. Thomas (St. Paul, MN) | 167 | 167 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 394 | Southeastern LA U. | 164 | 0 | 0 | 99 | 0 | 65 | 0 | 0 | 0 | 0 |
| 395 | Appalachian State U. | 160 | 0 | 0 | 26 | 0 | 0 | 134 | 0 | 0 | 0 |
| 396 | Fuller Theological Seminary CA | 160 | 0 | 0 | 0 | 0 | 0 | 160 | 0 | 0 | 0 |
| 397 | Stephen F. Austin State U. | 159 | 0 | 0 | 159 | 0 | 0 | 0 | 0 | 0 | 0 |
| 398 | IL Wesleyan U. | 158 | 0 | 0 | 0 | 0 | 0 | 158 | 0 | 0 | 0 |
| 399 | Kennesaw State U. | 152 | 0 | 0 | 152 | 0 | 0 | 0 | 0 | 0 | 0 |
| 400 | NJ Institute of Technology | 146 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 146 |
| 401 | NY Institute of Technology all campuses | 146 | 0 | 0 | 146 | 0 | 0 | 0 | 0 | 0 | 0 |
| 402 | U. Puget Sound | 143 | 0 | 0 | 0 | 0 | 0 | 0 | 143 | 0 | 0 |
| 403 | Middle TN State U. | 140 | 0 | 0 | 81 | 0 | 59 | 0 | 0 | 0 | 0 |
| 404 | Trinity C. (Hartford, CT) | 140 | 19 | 0 | 67 | 0 | 0 | 0 | 0 | 54 | 0 |
| 405 | Carleton C. | 136 | 0 | 0 | 0 | 0 | 73 | 63 | 0 | 0 | 0 |
| 406 | West Chester U. PA | 133 | 0 | 0 | 133 | 0 | 0 | 0 | 0 | 0 | 0 |
| 407 | Ithaca C. | 128 | 0 | 0 | 128 | 0 | 0 | 0 | 0 | 0 | 0 |
| 408 | A.T. Still U. of Health Sciences | 120 | 0 | 0 | 120 | 0 | 0 | 0 | 0 | 0 | 0 |
| 409 | Gallaudet U. | 119 | 0 | 0 | 0 | 0 | 0 | 119 | 0 | 0 | 0 |
| 410 | Pittsburg State U. | 117 | 0 | 0 | 54 | 0 | 63 | 0 | 0 | 0 | 0 |
| 411 | Oglala Lakota C. | 112 | 0 | 0 | 0 | 0 | 112 | 0 | 0 | 0 | 0 |
| 412 | Des Moines U. | 108 | 0 | 0 | 108 | 0 | 0 | 0 | 0 | 0 | 0 |
| 413 | Eastern IL U. | 104 | 0 | 0 | 89 | 0 | 0 | 15 | 0 | 0 | 0 |
| 414 | Central WA U. | 102 | 0 | 0 | 0 | 0 | 102 | 0 | 0 | 0 | 0 |
| 415 | Wheeling Jesuit U. | 102 | 0 | 0 | 72 | 0 | 0 | 0 | 30 | 0 | 0 |

Appendix O. Federally Financed R&D Expenditures at Universities and Colleges, Financed by the Department of Health and Human Services, Ranked by HHS R&D Expenditures, by Science and Engineering Field: FY 2007

(Dollars in Thousands)

| Rank | Institution | HHS R&D expenditures | Comp. sciences | Environ. Sciences | Life sciences | Mathem. Sciences | Physical sciences | Psych. | Social sciences | Sciences nec | Engg. |
|------|---|----------------------|----------------|-------------------|---------------|------------------|-------------------|--------|-----------------|--------------|-------|
| 416 | Sinte Gleska U. | 101 | 0 | 0 | 101 | 0 | 0 | 0 | 0 | 0 | 0 |
| 417 | Lawrence U. | 97 | 0 | 0 | 62 | 0 | 35 | 0 | 0 | 0 | 0 |
| 418 | CUNY Medgar Evers C. | 96 | 0 | 0 | 96 | 0 | 0 | 0 | 0 | 0 | 0 |
| 419 | Sam Houston State U. | 94 | 0 | 0 | 0 | 0 | 57 | 0 | 37 | 0 | 0 |
| 420 | Ursinus C. | 89 | 0 | 0 | 89 | 0 | 0 | 0 | 0 | 0 | 0 |
| 421 | Amherst C. | 82 | 0 | 0 | 0 | 0 | 30 | 52 | 0 | 0 | 0 |
| 422 | Rider U. | 80 | 0 | 0 | 80 | 0 | 0 | 0 | 0 | 0 | 0 |
| 423 | Wilberforce U. | 80 | 0 | 0 | 80 | 0 | 0 | 0 | 0 | 0 | 0 |
| 424 | Franklin & Marshall C. | 79 | 0 | 0 | 79 | 0 | 0 | 0 | 0 | 0 | 0 |
| 425 | U. Northern IA | 78 | 0 | 0 | 0 | 0 | 0 | 0 | 78 | 0 | 0 |
| 426 | U. Houston-Clear Lake | 76 | 0 | 0 | 76 | 0 | 0 | 0 | 0 | 0 | 0 |
| 427 | U. Richmond | 76 | 0 | 0 | 20 | 0 | 56 | 0 | 0 | 0 | 0 |
| 428 | Trinity U. | 75 | 0 | 0 | 40 | 0 | 0 | 35 | 0 | 0 | 0 |
| 429 | St. Cloud State U. | 74 | 0 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 27 |
| 430 | VA State U. | 74 | 0 | 0 | 66 | 0 | 0 | 8 | 0 | 0 | 0 |
| 431 | CA State U. Bakersfield | 72 | 0 | 0 | 32 | 0 | 40 | 0 | 0 | 0 | 0 |
| 432 | Juniata C. | 72 | 0 | 0 | 70 | 0 | 2 | 0 | 0 | 0 | 0 |
| 433 | Lewis and Clark C. | 72 | 0 | 0 | 59 | 0 | 13 | 0 | 0 | 0 | 0 |
| 434 | Towson U. | 71 | 0 | 0 | 18 | 0 | 53 | 0 | 0 | 0 | 0 |
| 435 | Macalester C. | 68 | 0 | 0 | 0 | 0 | 0 | 68 | 0 | 0 | 0 |
| 436 | Rhodes C. | 68 | 0 | 0 | 68 | 0 | 0 | 0 | 0 | 0 | 0 |
| 437 | Lafayette C. | 67 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 56 |
| 438 | Pacific Lutheran U. | 67 | 0 | 0 | 35 | 0 | 30 | 2 | 0 | 0 | 0 |
| 439 | Ft. Lewis C. | 66 | 0 | 0 | 66 | 0 | 0 | 0 | 0 | 0 | 0 |
| 440 | Bucknell U. | 65 | 0 | 0 | 45 | 0 | 20 | 0 | 0 | 0 | 0 |
| 441 | Evergreen State C. | 65 | 0 | 0 | 65 | 0 | 0 | 0 | 0 | 0 | 0 |
| 442 | SUNY C. Brockport | 65 | 0 | 0 | 65 | 0 | 0 | 0 | 0 | 0 | 0 |
| 443 | Swarthmore C. | 65 | 0 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 20 |
| 444 | Vassar C. | 65 | 0 | 0 | 65 | 0 | 0 | 0 | 0 | 0 | 0 |
| 445 | Allegheny C. | 62 | 0 | 0 | 0 | 0 | 62 | 0 | 0 | 0 | 0 |
| 446 | Lake Forest C. | 59 | 0 | 0 | 59 | 0 | 0 | 0 | 0 | 0 | 0 |
| 447 | U. TX of the Permian Basin | 57 | 0 | 0 | 57 | 0 | 0 | 0 | 0 | 0 | 0 |
| 448 | U. WI Eau Claire | 57 | 0 | 0 | 57 | 0 | 0 | 0 | 0 | 0 | 0 |
| 449 | Wilkes U. | 56 | 0 | 0 | 56 | 0 | 0 | 0 | 0 | 0 | 0 |
| 450 | Northeastern IL U. | 53 | 0 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 |
| 451 | Wabash C. | 53 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 | 0 |
| 452 | Hofstra U. | 52 | 0 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 0 |
| 453 | SUNY C. of Environmental Science and Forestry | 52 | 0 | 9 | 24 | 0 | 5 | 0 | 0 | 0 | 14 |
| 454 | U. San Diego | 51 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 |
| 455 | Mt. Holyoke C. | 50 | 0 | 0 | 25 | 0 | 25 | 0 | 0 | 0 | 0 |
| 456 | Rose-Hulman Institute of Technology | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| 457 | St. Mary's C. MD | 42 | 0 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 0 |
| 458 | CO State U. Pueblo | 41 | 0 | 0 | 38 | 0 | 0 | 0 | 3 | 0 | 0 |
| 459 | Kalamazoo C. | 41 | 0 | 0 | 29 | 12 | 0 | 0 | 0 | 0 | 0 |
| 460 | Coastal Carolina U. | 37 | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 0 |
| 461 | KY State U. | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| 462 | Western Carolina U. | 36 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 |
| 463 | SD School of Mines and Technology | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| 464 | SUNY C. Geneseo | 35 | 0 | 0 | 17 | 0 | 0 | 18 | 0 | 0 | 0 |
| 465 | St. Mary's U. (San Antonio, TX) | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |

Appendix O. Federally Financed R&D Expenditures at Universities and Colleges, Financed by the Department of Health and Human Services, Ranked by HHS R&D Expenditures, by Science and Engineering Field: FY 2007

(Dollars in Thousands)

| Rank | Institution | HHS R&D expenditures | Comp. sciences | Environ. Sciences | Life sciences | Mathem. Sciences | Physical sciences | Psych. | Social sciences | Sciences nec | Engg. |
|------|-----------------------------------|----------------------|----------------|-------------------|---------------|------------------|-------------------|--------|-----------------|--------------|-------|
| 466 | Youngstown State U. | 33 | 0 | 0 | 11 | 0 | 22 | 0 | 0 | 0 | 0 |
| 467 | CUNY Baruch C. | 31 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 |
| 468 | Murray State U. | 31 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 |
| 469 | U. WI Parkside | 31 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 |
| 470 | Central State U. | 30 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 |
| 471 | U. TX Tyler | 28 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 |
| 472 | U. WI Oshkosh | 28 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 |
| 473 | Colgate U. | 27 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 |
| 474 | Mercy C. | 25 | 5 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 |
| 475 | LeTourneau U. | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 476 | U. Portland | 21 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 |
| 477 | Hobart and William Smith Colleges | 19 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 |
| 478 | Grambling State U. | 16 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 |
| 479 | Point Loma Nazarene C. | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 |
| 480 | Indiana U. PA all campuses | 12 | 0 | 0 | 0 | 0 | 0 | 4 | 8 | 0 | 0 |
| 481 | U. Scranton | 10 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 |
| 482 | Winona State U. | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| 483 | U. AR Pine Bluff | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

NA = not available; data were not provided by institution.

HHS = Department of Health and Human Services; nec = not elsewhere classified.

^a Data represent the federally funded expenditures of The Johns Hopkins University, excluding its Applied Physics Laboratory (APL). With \$740,949 in total federally funded R&D expenditures, APL did not report federal agency details.

NOTES: Institutions not listed in this table did not provide federally financed R&D expenditures by federal agency; institutions that reported amounts of zero or more are included. Detail may not add to all-institution total because some respondents reporting federal agency data did not break out these data by field of science. Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2007.

Appendix P: Federal Obligations for Science and Engineering Research and Development to Systems of Universities and Colleges, Ranked by Total Amount Received, by Agency: FY 2007

| (Dollars in Thousands) | | | | | | | | | | | | |
|------------------------|---|--------------|---------|------------------|---------|--------|--------|-----------|---------|-----------|---------|--------------------|
| Rank | Institution | All agencies | DOC | DOD ^a | DOE | ED | EPA | HHS | NASA | NSF | USDA | Other ^b |
| | All systems | 9,526,536 | 111,729 | 1,030,866 | 319,446 | 50,036 | 41,235 | 5,792,833 | 278,550 | 1,449,823 | 334,634 | 117,384 |
| 1 | U. CA System | 2,265,917 | 12,259 | 151,777 | 67,170 | 3,362 | 5,872 | 1,561,483 | 60,104 | 358,518 | 33,919 | 11,453 |
| 2 | U. TX System | 930,187 | 994 | 143,030 | 14,957 | 3,306 | 968 | 688,242 | 7,228 | 66,701 | 1,576 | 3,185 |
| 3 | U. NC System | 489,084 | 5,067 | 25,580 | 8,459 | 4,705 | 4,911 | 351,489 | 1,494 | 52,059 | 30,004 | 5,316 |
| 4 | State U. System FL | 457,296 | 4,198 | 95,739 | 22,690 | 3,979 | 1,014 | 202,201 | 9,241 | 95,892 | 14,044 | 8,298 |
| 5 | Columbia U. System | 437,813 | 10,247 | 13,572 | 9,571 | 0 | 4,550 | 331,865 | 7,365 | 59,301 | 474 | 868 |
| 6 | U. IL System | 400,841 | 888 | 46,361 | 29,467 | 4,109 | 2,059 | 196,428 | 2,719 | 93,365 | 23,402 | 2,043 |
| 7 | U. WI System | 386,687 | 2,411 | 12,303 | 38,247 | 849 | 1,164 | 230,465 | 5,592 | 76,665 | 16,222 | 2,769 |
| 8 | U. MD System | 378,462 | 23,306 | 42,504 | 9,562 | 391 | 4,241 | 189,701 | 43,914 | 47,442 | 14,086 | 3,315 |
| 9 | OR State Higher Ed. System | 337,284 | 3,275 | 21,682 | 8,919 | 11,337 | 4,250 | 214,129 | 3,642 | 50,348 | 13,550 | 6,152 |
| 10 | U. System GA | 317,148 | 2,243 | 103,780 | 10,354 | 1,799 | 0 | 101,755 | 3,978 | 68,875 | 20,822 | 3,542 |
| 11 | Universities and State Colleges of AZ System | 315,935 | 1,045 | 20,254 | 8,055 | 2,422 | 2,238 | 138,354 | 63,035 | 67,407 | 9,364 | 3,761 |
| 12 | U. AL System | 276,886 | 570 | 34,491 | 2,117 | 1,209 | 75 | 212,126 | 12,118 | 11,627 | 255 | 2,298 |
| 13 | UT Higher Ed. System | 250,555 | 1,078 | 64,343 | 5,417 | 0 | 638 | 142,601 | 2,098 | 22,442 | 8,968 | 2,970 |
| 14 | SUNY System | 236,135 | 3,933 | 16,647 | 8,475 | 3,156 | 635 | 158,002 | 3,948 | 37,415 | 1,613 | 2,311 |
| 15 | CUNY System | 233,588 | 223 | 3,736 | 964 | 420 | 0 | 213,474 | 591 | 11,147 | 0 | 3,033 |
| 16 | U. MA System | 218,208 | 631 | 15,727 | 6,270 | 250 | 1,242 | 145,906 | 1,464 | 39,805 | 5,984 | 929 |
| 17 | U. HI System | 172,936 | 12,973 | 54,781 | 2,849 | 248 | 0 | 51,088 | 10,282 | 28,720 | 5,938 | 6,057 |
| 18 | IN U. System | 170,589 | 717 | 5,085 | 4,699 | 108 | 0 | 133,839 | 2,081 | 23,444 | 75 | 541 |
| 19 | CA State U. and Colleges System | 124,585 | 960 | 42,537 | 1,012 | 0 | 95 | 46,888 | 10,736 | 15,740 | 960 | 5,657 |
| 20 | U. MO System | 122,244 | 143 | 15,311 | 4,314 | 1,100 | 893 | 60,652 | 1,715 | 18,824 | 15,395 | 3,897 |
| 21 | TX A&M U. System | 117,955 | 1,497 | 16,462 | 7,877 | 1,431 | 282 | 46,560 | 1,018 | 13,658 | 25,573 | 3,597 |
| 22 | U. NE System | 114,091 | 269 | 13,126 | 1,424 | 2,138 | 775 | 58,525 | 583 | 23,087 | 10,877 | 3,287 |
| 23 | CO State U. System | 97,710 | 3,677 | 3,184 | 5,458 | 0 | 1,060 | 40,269 | 6,956 | 24,383 | 10,394 | 2,329 |
| 24 | U. TN System | 92,973 | 0 | 3,339 | 7,727 | 0 | 1,320 | 44,672 | 2,218 | 16,783 | 13,794 | 3,120 |
| 25 | LA State U. System | 91,193 | 1,416 | 7,521 | 1,937 | 0 | 166 | 50,598 | 1,923 | 15,173 | 8,831 | 3,628 |
| 26 | U. NV System | 76,308 | 257 | 11,752 | 22,398 | 0 | 0 | 19,267 | 469 | 13,158 | 4,003 | 5,004 |
| 27 | U. AR System | 70,876 | 0 | 2,335 | 345 | 450 | 0 | 50,365 | 229 | 6,117 | 10,610 | 425 |
| 28 | MT U. System | 68,697 | 110 | 9,661 | 3,059 | 422 | 581 | 27,278 | 1,838 | 11,606 | 9,803 | 4,339 |
| 29 | U. AK System | 59,365 | 6,772 | 2,961 | 161 | 1,551 | 0 | 9,009 | 728 | 27,343 | 4,170 | 6,670 |
| 30 | U. PR System | 49,601 | 101 | 4,126 | 180 | 0 | 26 | 30,336 | 387 | 8,858 | 5,510 | 77 |
| 31 | U. NH System | 34,579 | 9,144 | 2,086 | 1,535 | 0 | 493 | 3,178 | 5,827 | 7,102 | 4,130 | 1,084 |
| 32 | U. ME System | 26,978 | 1,149 | 5,405 | 618 | 0 | 1,477 | 1,028 | 996 | 9,108 | 5,115 | 2,082 |
| 33 | U. Houston System | 26,705 | 0 | 2,001 | 1,337 | 1,294 | 0 | 12,023 | 432 | 9,467 | 30 | 121 |
| 34 | State U. and Community C. System TN | 21,405 | 66 | 4,110 | 463 | 0 | 0 | 7,684 | 242 | 3,522 | 3,832 | 1,486 |
| 35 | Southern IL U. System | 13,986 | 0 | 1,366 | 373 | 0 | 210 | 6,867 | 0 | 4,095 | 980 | 95 |
| 36 | U. SD System | 12,040 | 0 | 0 | 0 | 0 | 0 | 9,865 | 763 | 1,407 | 5 | 0 |
| 37 | TX State U. System | 9,180 | 0 | 7,838 | 0 | 0 | 0 | 346 | 0 | 970 | 0 | 26 |
| 38 | U. LA System | 8,413 | 0 | 3,450 | 841 | 0 | 0 | 727 | 0 | 2,946 | 276 | 173 |
| 39 | Claremont Colleges System | 2,638 | 103 | 0 | 0 | 0 | 0 | 818 | 98 | 1,619 | 0 | 0 |
| 40 | Fundacion Educativa Ana G. Mendez System | 2,525 | 0 | 0 | 70 | 0 | 0 | 779 | 0 | 1,676 | 0 | 0 |
| 41 | NC Community C. System | 1,167 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,167 |
| 42 | MN State Colleges and Universities | 1,160 | 0 | 182 | 0 | 0 | 0 | 524 | 0 | 291 | 50 | 113 |
| 43 | State System of Higher Ed. (PA) | 1,052 | 7 | 139 | 0 | 0 | 0 | 277 | 30 | 599 | 0 | 0 |
| 44 | Inter American U. PR System | 582 | 0 | 582 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45 | San Jacinto C. System | 582 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 582 | 0 | 0 |
| 46 | MA State C. System | 481 | 0 | 0 | 0 | 0 | 0 | 408 | 0 | 73 | 0 | 0 |
| 47 | Foothill-Deanza Community C. | | | | | | | | | | | |

Appendix P: Federal Obligations for Science and Engineering Research and Development to Systems of Universities and Colleges, Ranked by Total Amount Received, by Agency: FY 2007

(Dollars in Thousands)

| Rank | Institution | All agencies | DOC | DOD ^a | DOE | ED | EPA | HHS | NASA | NSF | USDA | Other ^b |
|------|--|--------------|-----|------------------|-----|----|-----|-----|------|-----|------|--------------------|
| | District System | 468 | 0 | 0 | 0 | 0 | 0 | 0 | 468 | 0 | 0 | 0 |
| 48 | Grossmont-Cuyamaca Community C. System | 292 | 0 | 0 | 0 | 0 | 0 | 292 | 0 | 0 | 0 | 0 |
| 49 | Mesa County Jr. C. District System | 272 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 272 | 0 | 0 |
| 50 | Community Colleges of Baltimore County, The | 250 | 0 | 0 | 0 | 0 | 0 | 250 | 0 | 0 | 0 | 0 |
| 51 | San Diego District Community Colleges System | 200 | 0 | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 0 |
| 52 | Dallas County Community C. System | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103 |
| 53 | Maricopa County Community C. System | 75 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54 | Baker C. System | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 0 | 0 |
| 55 | VA Community C. System | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 |
| 56 | State Ctr. Jr. C. District System (CA) | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 0 | 0 |
| 57 | Los Rios Community C. System | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 0 | 0 |
| 58 | Troy State U. System | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 |
| 59 | Coast Community C. District System | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 |

DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; ED = Department of Education; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

^a DOD research is reported separately from DOD development. DOD states that more than 90% of its development obligations reported for universities and colleges are performed at university-administered laboratories that are separate from academic departments. Furthermore, DOD states that much of its development obligations are for major systems development, that such obligations differ from its obligations for advanced technology development, and that DOD total development obligations are therefore not comparable with development obligations at other federal agencies. Refer to table 14 for DOD obligations to individual institutions, by R&D breakdown.

^b See General Notes.

NOTES: Includes obligations to every individual institution included within each system. Tied institutions are listed alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions, FY 2007.