

**UNIVERSITY OF MASSACHUSETTS
ANNUAL RESEARCH & DEVELOPMENT
EXPENDITURES REPORT**
(EXPANDED VERSION WITH NSF RANKINGS & COMPARISON DATA)

FY2007

*UNIVERSITY OF MASSACHUSETTS PRESIDENTS OFFICE
OFFICE OF INSTITUTIONAL RESEARCH
OCTOBER 2008*

Preface

The *FY 2007 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 FY2007 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: 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.

Barbara Velardi
Research Associate
Office of Institutional Research
University of Massachusetts President's Office

Neena Verma
Director of Institutional Research
Office of Institutional Research
University of Massachusetts President's Office

EXECUTIVE SUMMARY 1

- **ADDITIONAL HIGHLIGHTS FOR UMASS AND UMASS CAMPUSES R&D EXPENDITURES DATA**
- **UMASS AS PERCENT OF ALL MASSACHUSETTS AND NEW ENGLAND INSTITUTIONS 4**
- **NSF RESEARCH AND DEVELOPMENT EXPENDITURES RANKINGS 5**

A. TOTAL R&D EXPENDITURES 7

- **FY2003 - FY2007**
- **UMASS SYSTEM 9**
- **UMASS AMHERST 10**
- **UMASS BOSTON 11**
- **UMASS DARTMOUTH 12**
- **UMASS LOWELL 13**
- **UMASS WORCESTER 14**

B. SCIENCE & ENGINEERING R&D EXPENDITURES 15

- **R&D EXPENDITURES BY FIELD FY2003 - 2007 15**
- **TOTAL R&D EXPENDITURES BY FIELD - FY2007 16**
- **EXPENDITURES BY SOURCE FY2007 18**
- **EXPENDITURES BY SOURCE FY2003 - FY2007 20**
- **PERCENT BASIC RESEARCH FY2007 21**
- **FEDERAL GOVERNMENT AGENCY SOURCES FY2007 22**

C. LIFE SCIENCES R&D EXPENDITURES 24

- **EXPENDITURES BY FIELD FY2007 24**
- **FY2003 - FY2007 25**
- **EXPENDITURES BY FIELD FY2003 - FY2007 26**

APPENDICES

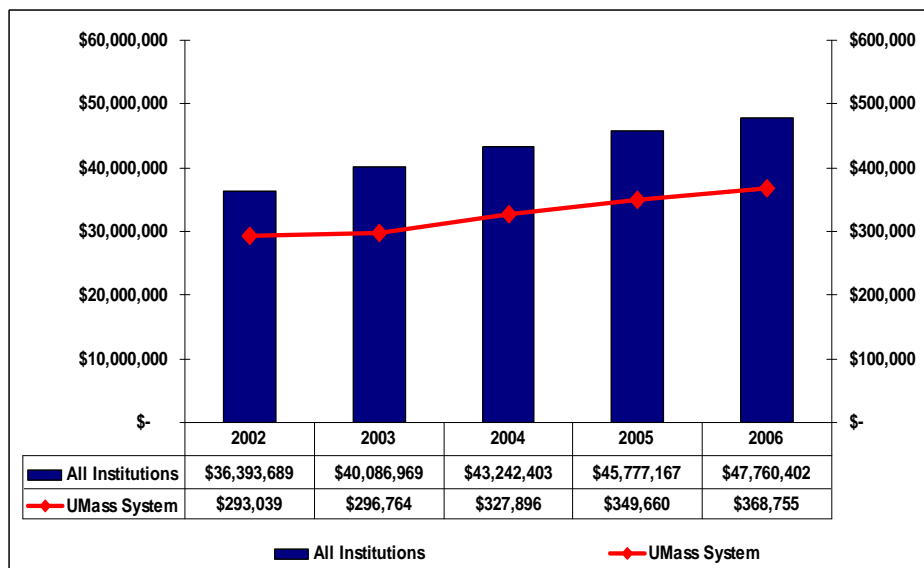
- **APPENDIX A1:** UMASS SCIENCE AND ENGINEERING R&D EXPENDITURES AS PERCENT OF US, NEW ENGLAND, MASSACHUSETTS FIGURES FY 2000-2006 28
- **APPENDIX A2:** UMASS SCIENCE AND ENGINEERING R&D EXPENDITURES AS PERCENT OF US, NEW ENGLAND, MASSACHUSETTS FIGURES BY FIELD: FY 2006 28
- **APPENDIX B:** R&D EXPENDITURES AT UNIVERSITIES AND COLLEGES, RANKED BY FY 2006 R&D EXPENDITURES: FY 1999-2006 29
- **APPENDIX C:** FEDERALLY FINANCED R&D EXPENDITURES AT UNIVERSITIES AND COLLEGES, RANKED BY FY 2006 EXPENDITURES: FY 1999-2006 35
- **APPENDIX D:** R&D EXPENDITURES AT PUBLIC UNIVERSITIES AND COLLEGES, RANKED BY ALL R&D EXPENDITURES FOR THE FIRST 150 INSTITUTIONS, BY SOURCE OF FUNDS: FY 2006 42
- **APPENDIX E:** R&D EXPENDITURES AT ALL UNIVERSITIES AND COLLEGES WITHOUT A MEDICAL SCHOOL, RANKED BY ALL R&D EXPENDITURES, BY SOURCE OF FUNDS: FY 2006 46
- **APPENDIX F:** TOTAL AND FEDERALLY FINANCED R&D EXPENDITURES IN THE COMPUTER SCIENCES AT UNIVERSITIES AND COLLEGES, RANKED BY FY 2006 TOTAL FOR THE FIRST 100 INSTITUTIONS: FY 2003-06 53
- **APPENDIX G:** TOTAL AND FEDERALLY FINANCED R&D EXPENDITURES IN ENGINEERING AT UNIVERSITIES AND COLLEGES, RANKED BY FY 2006 TOTAL FOR THE FIRST 100 INSTITUTIONS: FY 2003-06 56
- **APPENDIX H:** FEDERALLY FINANCED R&D EXPENDITURES IN THE ENVIRONMENTAL SCIENCES AT UNIVERSITIES AND COLLEGES, RANKED BY ALL FY 2005 ENVIRONMENTAL SCIENCES FOR THE FIRST 100 INSTITUTIONS: FY 2003-06, AND BY SUBFIELD FOR FY 2006 59
- **APPENDIX I:** R&D EXPENDITURES IN THE LIFE SCIENCES AT UNIVERSITIES AND COLLEGES, RANKED BY ALL FY 2006 LIFE SCIENCES FOR THE FIRST 150 INSTITUTIONS: FY 2003-06, AND BY SUBFIELD FOR FY 2006 62
- **APPENDIX J:** TOTAL AND FEDERALLY FINANCED R&D EXPENDITURES IN THE MATHEMATICAL SCIENCES AT UNIVERSITIES AND COLLEGES, RANKED BY FY 2006 TOTAL FOR THE FIRST 100 INSTITUTIONS: FY 2003-06 66
- **APPENDIX K:** R&D EXPENDITURES IN THE PHYSICAL SCIENCES AT UNIVERSITIES AND COLLEGES, RANKED BY ALL FY 2006 PHYSICAL SCIENCES FOR THE FIRST 100 INSTITUTIONS: FY 2003-06, AND BY SUBFIELD FOR FY 2006 69
- **APPENDIX L:** TOTAL AND FEDERALLY FINANCED R&D EXPENDITURES IN PSYCHOLOGY AT UNIVERSITIES AND COLLEGES, RANKED BY FY 2006 TOTAL FOR THE FIRST 100 INSTITUTIONS: FY 2003-06 72
- **APPENDIX M:** R&D EXPENDITURES IN THE SOCIAL SCIENCES AT UNIVERSITIES AND COLLEGES, RANKED BY ALL FY 2006 SOCIAL SCIENCES FOR THE FIRST 100 INSTITUTIONS: FY 2003-06, AND BY SUBFIELD FOR FY 2006 75

APPENDICES (CONT'D)

- **APPENDIX N:** R&D EXPENDITURES IN NON-SCIENCE AND ENGINEERING FIELDS AT UNIVERSITIES AND COLLEGES, RANKED BY ALL FY 2006 NON-S&E FIELDS: FY 2004-06 AND BY SUB-FIELD FOR FY 2006 78
- **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 2006 85
- **APPENDIX P:** FEDERAL OBLIGATIONS FOR SCIENCE AND ENGINEERING RESEARCH AND DEVELOPMENT TO SYSTEMS OF UNIVERSITIES AND COLLEGES, RANKED BY TOTAL AMOUNT RECEIVED, BY AGENCY: F2006 91

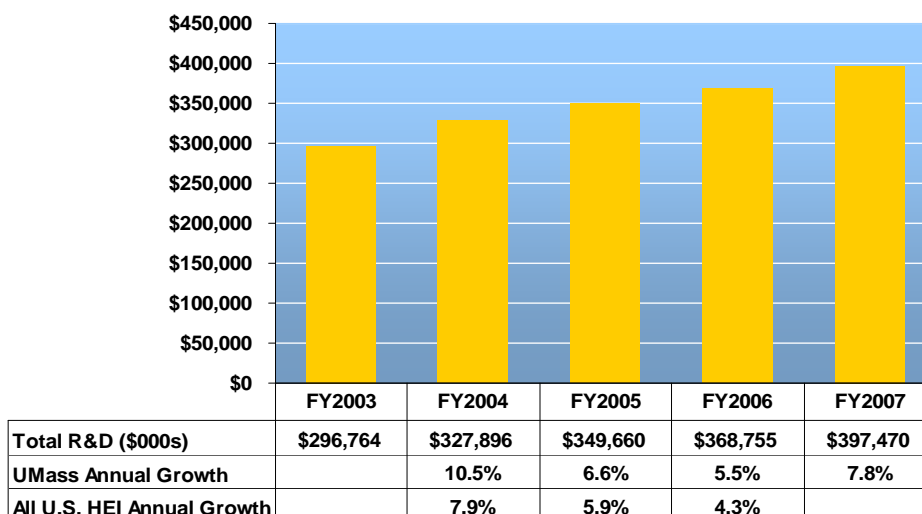
EXECUTIVE SUMMARY

- UMASS Total R&D Expenditures** - Total FY2007 R&D expenditures for the University of Massachusetts System was reported at \$397 million, which represents a 7.8% increase from the FY2006 total of \$369 million¹.
- UMASS versus All U.S. Institutions - Total R&D Expenditures and Growth²** - Between FY2003-FY2006, 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, FY2002-FY2006*

that reflected an annual growth rate of 7.9%, 5.9%, and 4.3% respectively, the UMASS System reflected annual growth rates of 10.5%, 6.6%, and 5.5% for the same years.

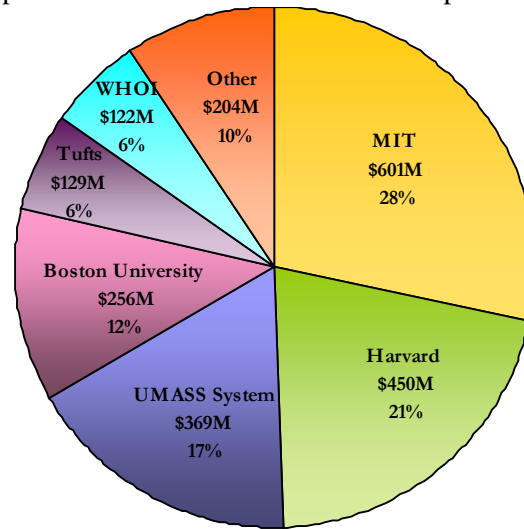


*Total R&D Expenditures: UMASS System (FY2003 – FY2007)
With Comparative Annual Growth for UMASS and All U.S. Institutions (FY2004 - FY2006)*

¹ Based on revised figures for UMASS, for FY2006.

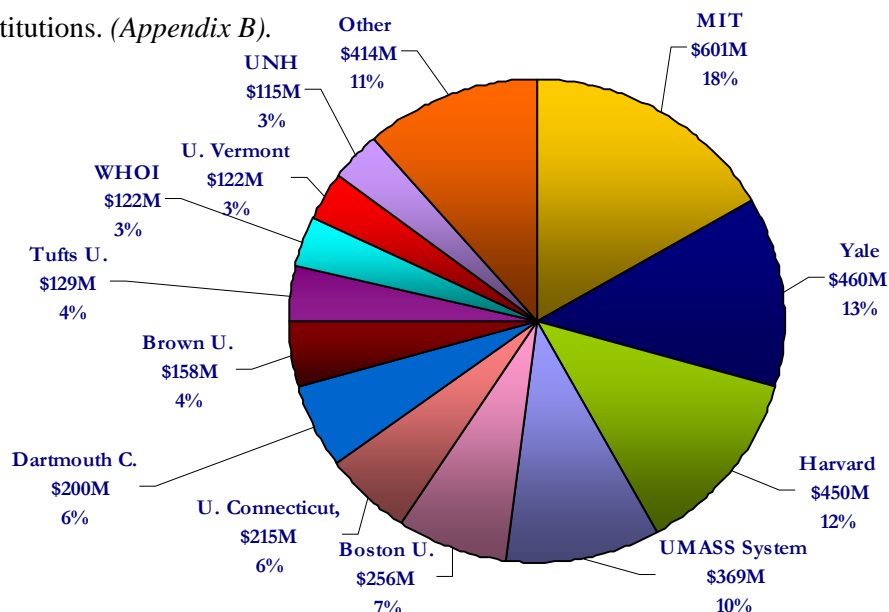
² Based on revised figures for UMASS, for FY2003-FY2006

- **UMASS Total R&D Expenditures as Percent of MA Institutions** - Based on FY2006 data, the UMASS System comprises 17% of the total R&D Expenditures for Massachusetts institutions. (*Appendix B*).



*Total R&D Expenditures: UMASS System and Select Institutions
As Percent of all MA Institutions, FY2006*

- **UMASS R&D Expenditures in Science and Engineering** – In FY2007, an estimated \$379 million (95.4%) of our R&D expenditures are in the sciences and engineering (S&E).
- **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 79% of the academic science and engineering R&D expenditures in the state. (Rankings based on FY 2006 data).
- **UMASS Total R&D Expenditures as Percent of New England Institutions** – Based on FY2006 data, the UMASS System comprises 10% of the total R&D Expenditures for New England institutions. (*Appendix B*).



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

- **UMASS R&D Expenditures by Funding Source.** In terms of funding sources for Science and Engineering research, 64% is from the federal government, 20% is from institutional sources, 3% is from state and local government, 7% is from industry and 6% is from other sources (e.g., private foundations).
- **UMASS Areas of Funding Growth.** Between the reporting cycles FY2006-07, industry sponsorship increased 28.9%, institutional funding increased 20.7%, other funding increased 8.1%, and federal funding increased 0.5% from the prior year.
- **Life Sciences Comprise More Than Half of all R&D Expenditures at UMASS.** At \$220 million, life sciences constitute more than half of UMass' total R&D expenditures (55.3%). The distribution of R&D expenditures by field is:

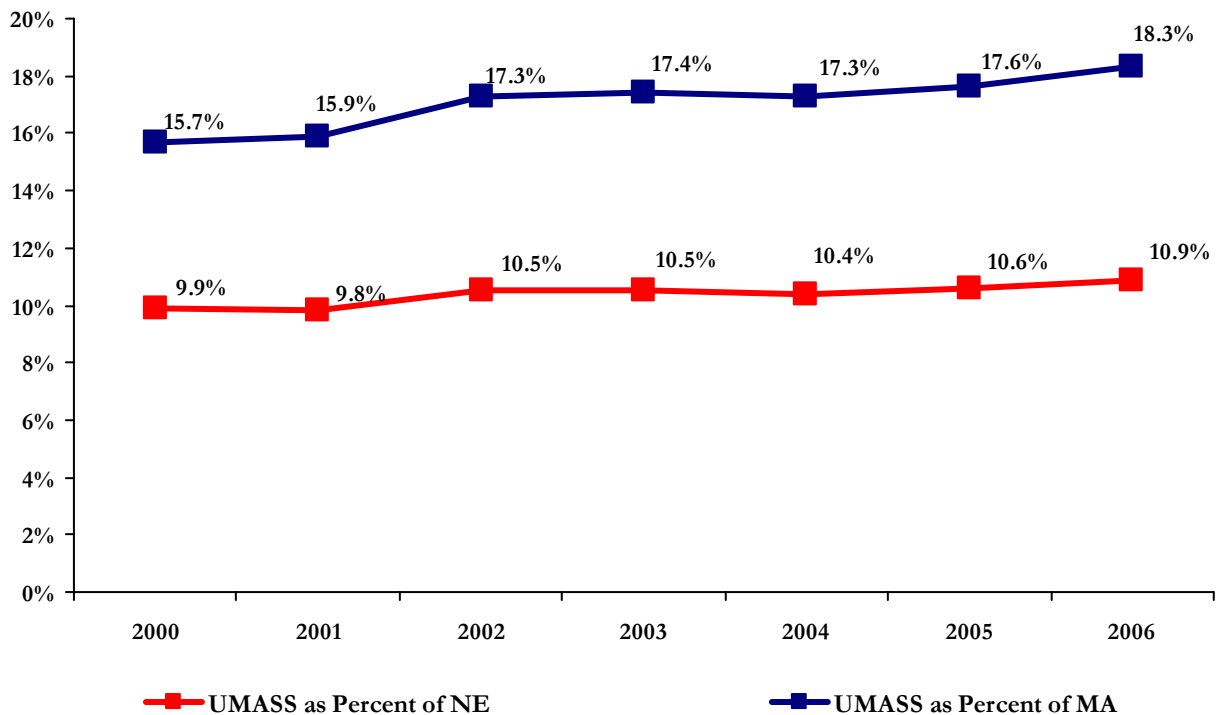
Life Sciences	55.3%	Social Sciences	3.8%
Physical Sciences	8.7%	Non Sciences/Engineering	4.6%
Engineering	12.7%	Psychology	2.5%
Computer Sciences	5.3%	Mathematical Sciences	1.1%
Environmental Sciences	5.2%	Other Sciences	0.9%

- **UMASS Federal Obligations for Science and Engineering R&D Expenditures increases by 22%.** In FY2007, total federal obligations in Science and Engineering R&D for the UMASS System was at approximately \$244 million. This reflects a 22% increase from FY2006, when total federal obligations to the UMASS System was at \$199.3 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 18.3% in FY 2006, reflecting a 2.6% 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 10.9% in FY 2006, reflecting a 1.0% increase. [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 16.4% of

that of the New England institutions and 22.8% of that of all Massachusetts institutions). This is followed by the Social Sciences where UMASS R&D Expenditures is at 12% of the total New England division and 19.8% of Massachusetts; Life Sciences, where UMASS is at 11.9% of New England and 22.9% of Massachusetts; Physical Sciences, where UMASS is 12% of New England and 15.1% of Massachusetts. *[Appendix A2]*.

II. NSF Research and Development Expenditures Rankings Based on FY 2006 and Past Trends

UMASS System Ranking

- The UMASS System ranked 17th (of 55) in terms of Federal Obligations for Science and Engineering R&D to Systems of Universities and Colleges (FY2006). *[Appendix P]*.

UMASS Campuses – Total R&D Expenditures Rankings

- UM Amherst ranked 105^{th*} nationally in total academic R&D Expenditures (FY2006). Among land-grant campuses, UM Amherst's ranking was 34th. It should be noted that 16 of the land-grants which are larger than Amherst have medical schools and include the two land-grants which are private institutions – Cornell University and MIT. *[Appendix B, with revised data for UMass Amherst]*.
- UM Medical School ranked 101^{st*} nationally in total academic R&D Expenditures, and ranked 12th among free-standing health sciences campuses (FY2006). *[Appendix B, with revised data for UMass Medical School]*.
- UM Lowell ranked 203rd nationally in total academic R&D expenditures (FY2006). *[Appendix B, with revised data for UMass Lowell]*.
- UM Boston ranked 223rd nationally in total academic R&D expenditures (FY2006). *[Appendix B, with revised data for UMass Boston]*.
- UM Dartmouth ranked 228th nationally in total academic R&D expenditures (FY2006). *[Appendix B, with revised data for UMass Dartmouth]*.

*Based on revised data for FY2006.

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 (FY2003-2006). In FY 2006, UM Amherst ranked 16th 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 50th in FY2006. *[Appendix M]*.
- From FY2003-FY2006, 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 FY2006, UM Dartmouth ranked 70th. *[Appendix H]*.
- UM Lowell among the top 100 institutions for total R&D Expenditures in the Environmental Sciences in FY2006. *[Appendix H]*.
- UM Medical School's ranking for colleges and universities Total R&D Expenditures in Life Sciences has consistently improved over the years (67th to 55th between FY2003-2006). In FY2006, UM Medical School ranked 55th among the first 150 institutions in this category. *[Appendix I]*.

Additional Rankings

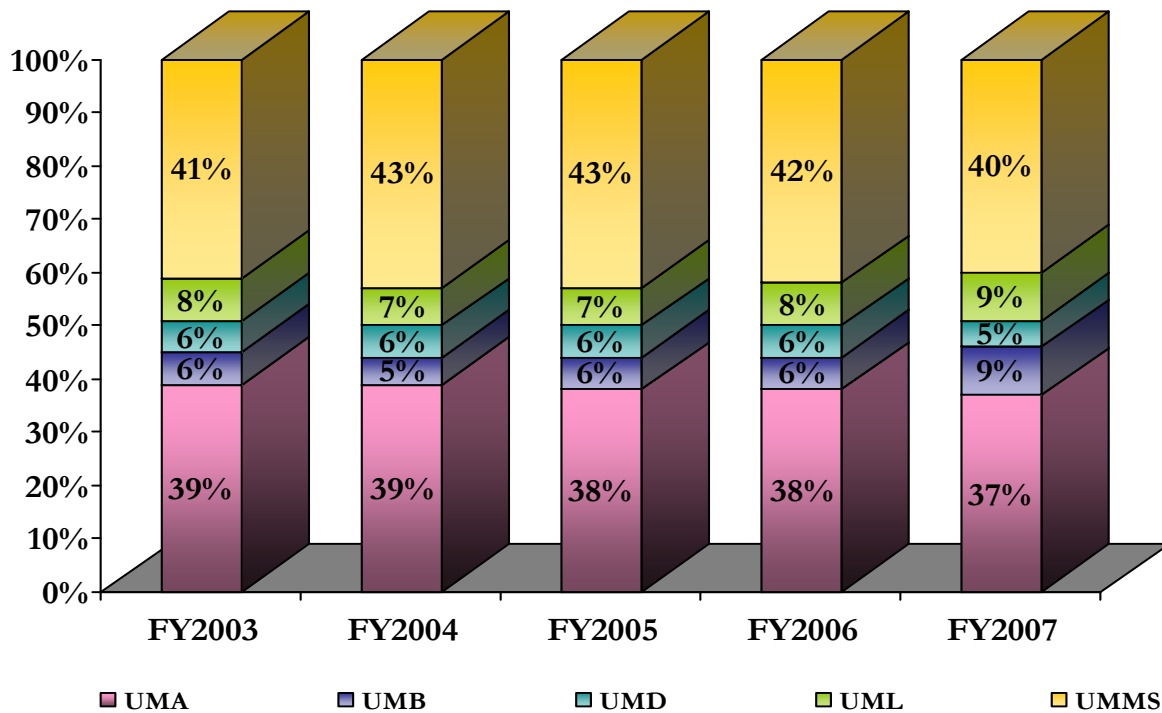
- UM Amherst has consistently ranked among the first 100 universities and colleges in R&D Expenditures in Engineering. UM Amherst's ranking in this field has significantly increased, from 83rd in FY2003 to 67th in FY2006. *[Appendix G]*.
- UM Amherst has consistently ranked among the first 100 universities and colleges for R&D Expenditures in Mathematical Sciences. In FY 2006, UM Amherst ranked 50th. *[Appendix J]*.
- UM Amherst has consistently ranked highly among the first 100 institutions for R&D Expenditures in the Physical Sciences. UM Amherst's ranking has ranged from 28th-36th 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 56th in FY2006. *[Appendix L]*.

A. TOTAL R&D EXPENDITURES

A. TOTAL R&D EXPENDITURES FY2003-FY2007

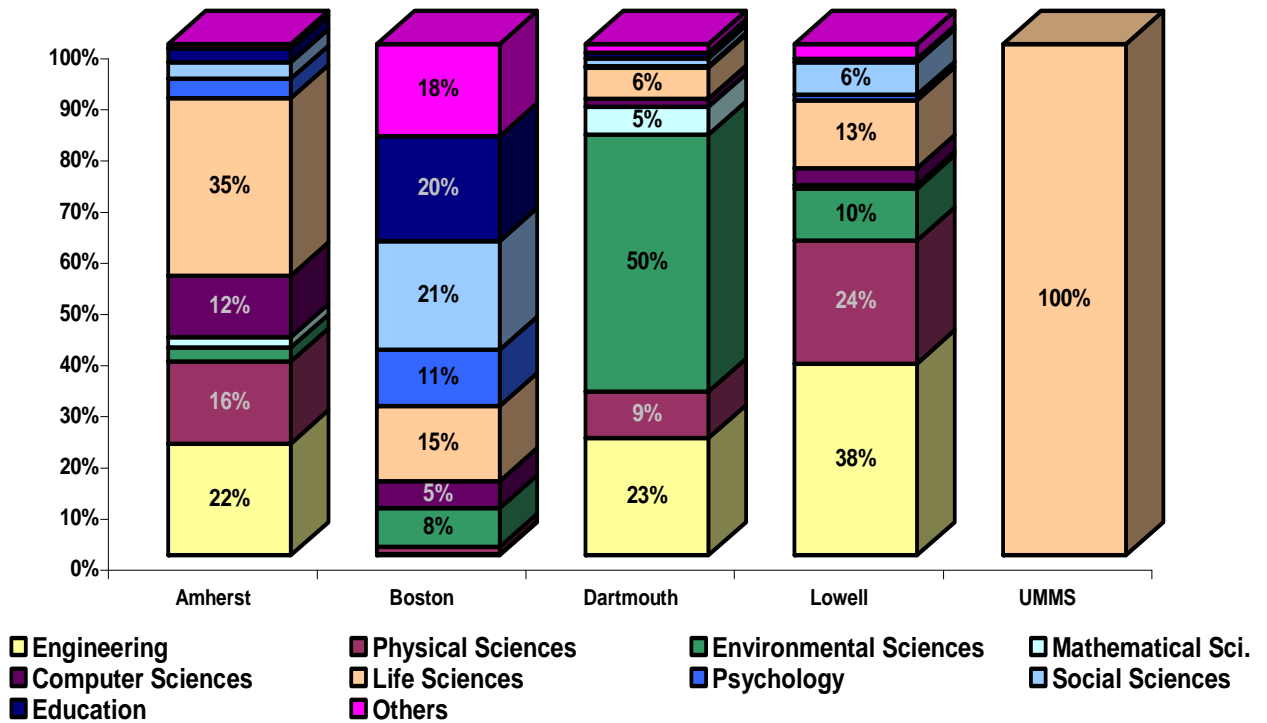
1. Total FY2007 R&D expenditures for the University of Massachusetts System was reported at \$397 million, which represents a 7.8% increase from the FY2006 total of \$369 million.
2. A majority of UMASS Campuses reported a significant increase in growth between FY2006-FY2007.
3. Within the UMASS System, a little over two-fifths (40%) of the total R&D Expenditures is attributed to the UMass Medical School and over one-third (37%) 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-FY2007).

**UMASS Campuses - Total R&D Expenditures
(As a Percent of UMASS System)
FY2003-FY2007**



5. R&D expenditures activities at UMASS campuses vary by field. In FY2007, while UMass Amherst's top three R&D Expenditures areas were Life Sciences (35%), Engineering (22%), and Physical Sciences (16%), UMass Boston's concentration was primarily Social Sciences (21%) and Education (20%). UMass Dartmouth's major areas of concentration were in the fields of Environmental Sciences (45%) and Engineering (25%), and for UMass Lowell, Engineering (38% and Physical Sciences (24%). The UMass Medical School had 100% of its R&D Expenditures in the Life Sciences.

UMASS Campuses: Total R&D Expenditures by Field (FY2007)

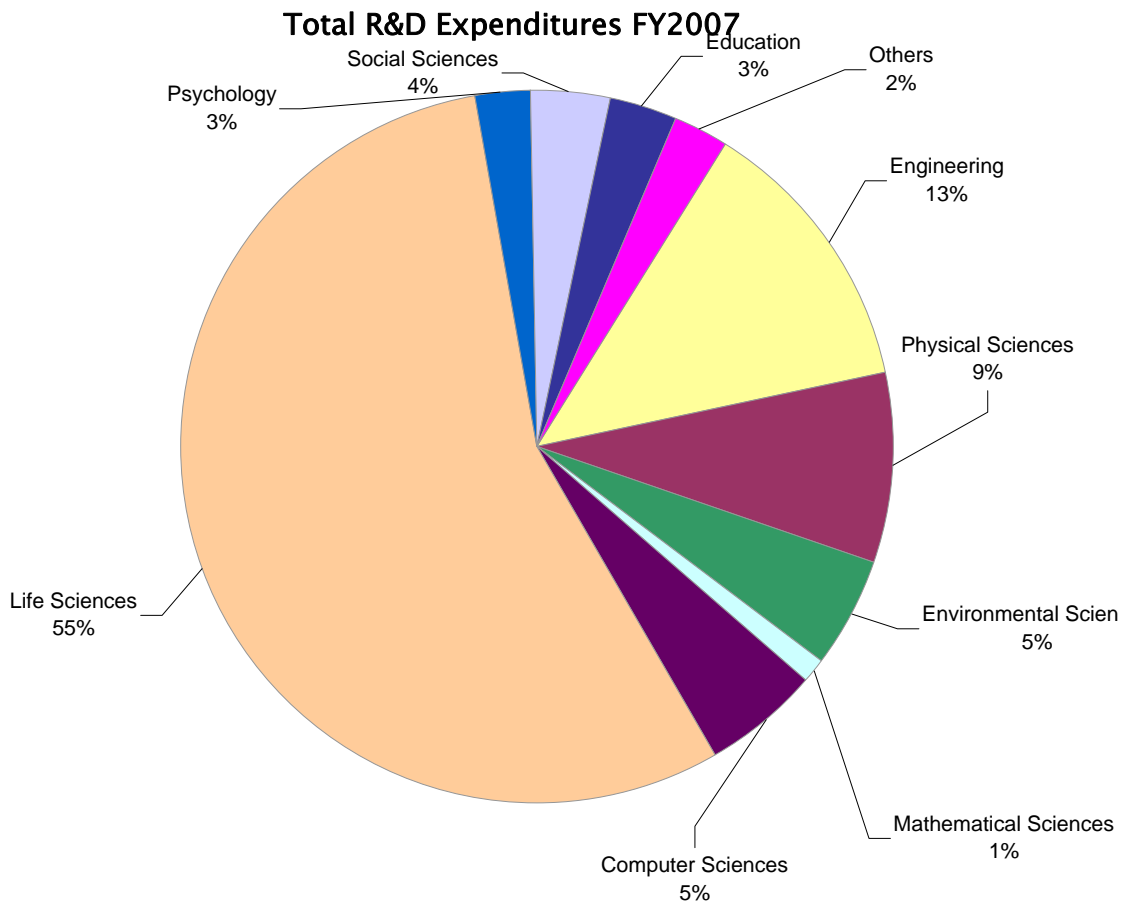
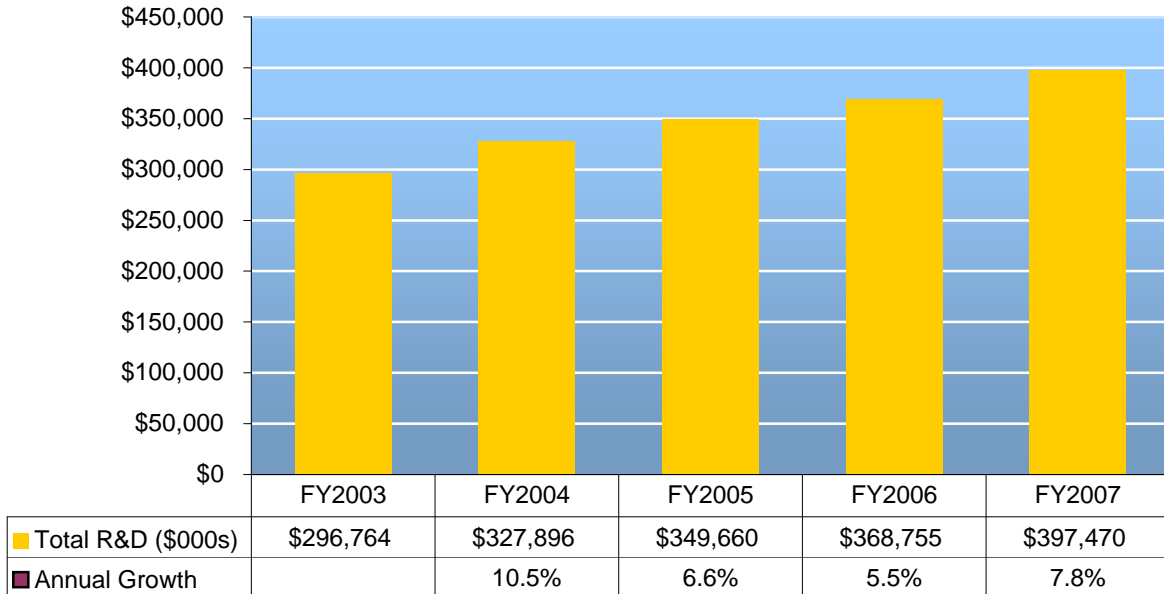


A. TOTAL R&D EXPENDITURES

DATA AND CHARTS

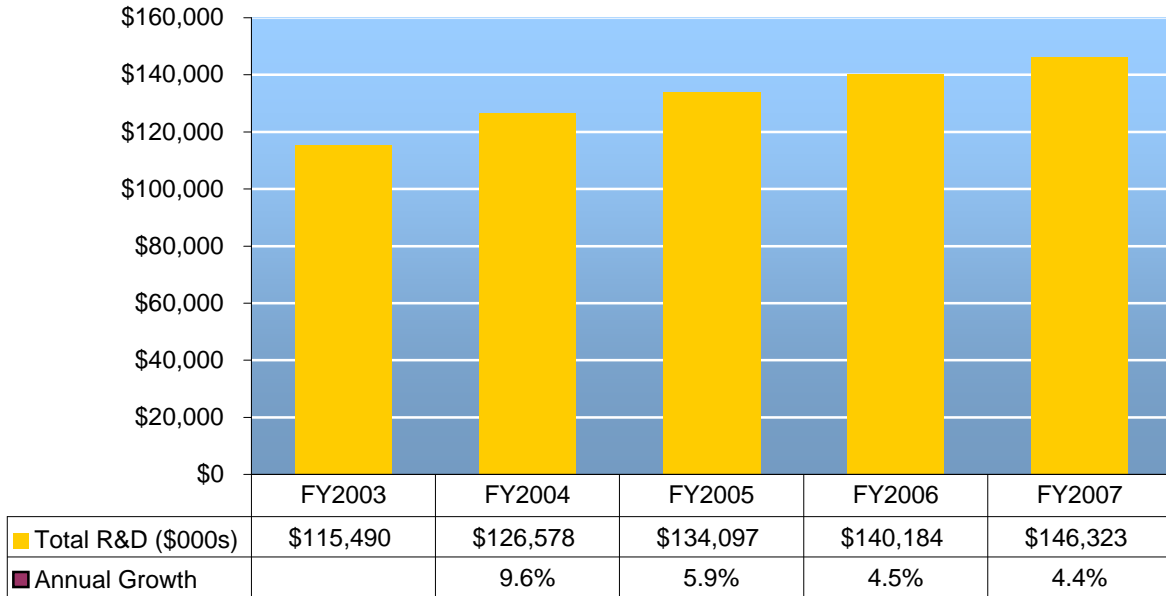
UMASS System

Total R&D Expenditures FY2003 – FY2007

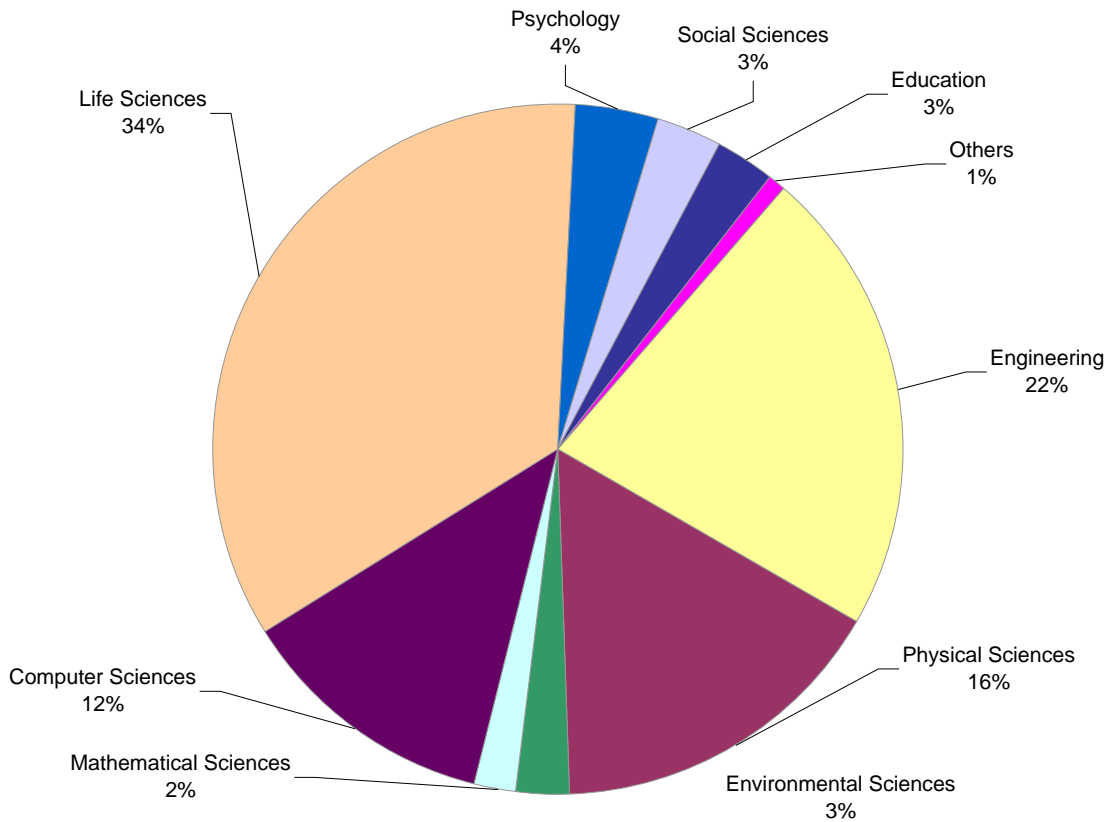


Amherst

Total R&D Expenditures FY2003 – FY2007

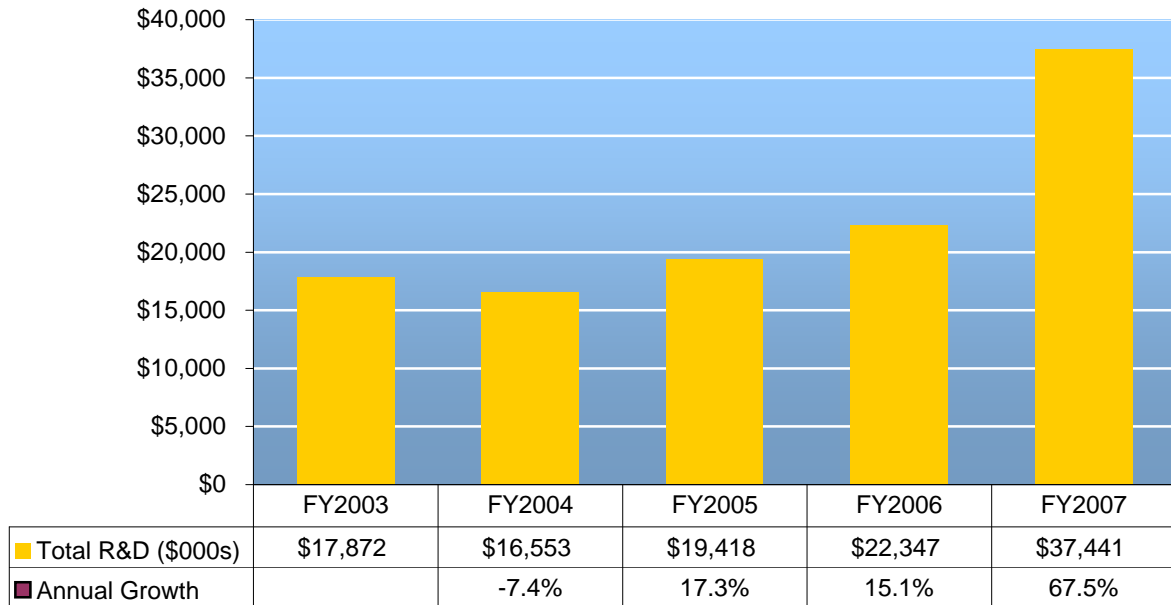


Total R&D Expenditures FY2007

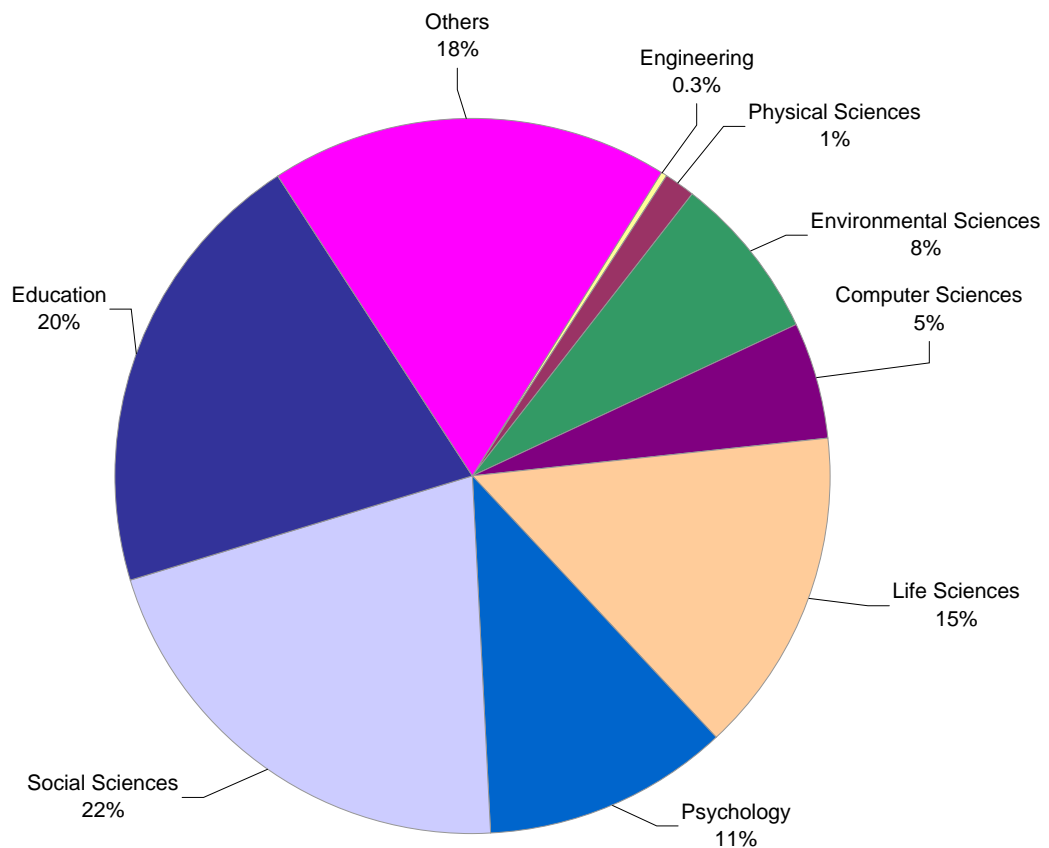


Boston

Total R&D Expenditures FY2003 – FY2007

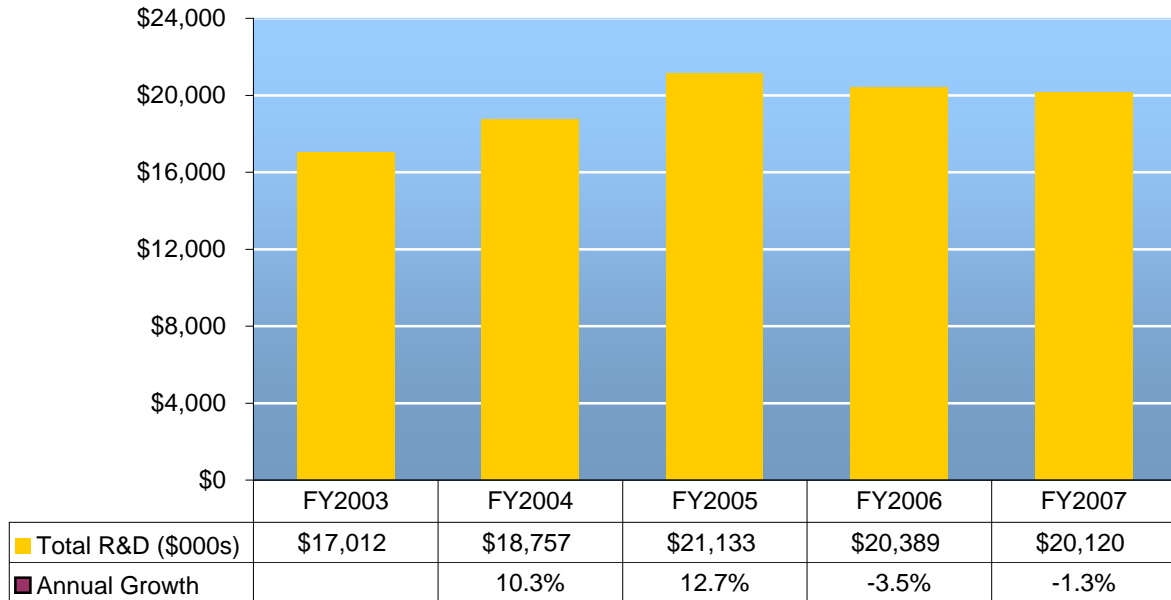


Total R&D Expenditures FY2007

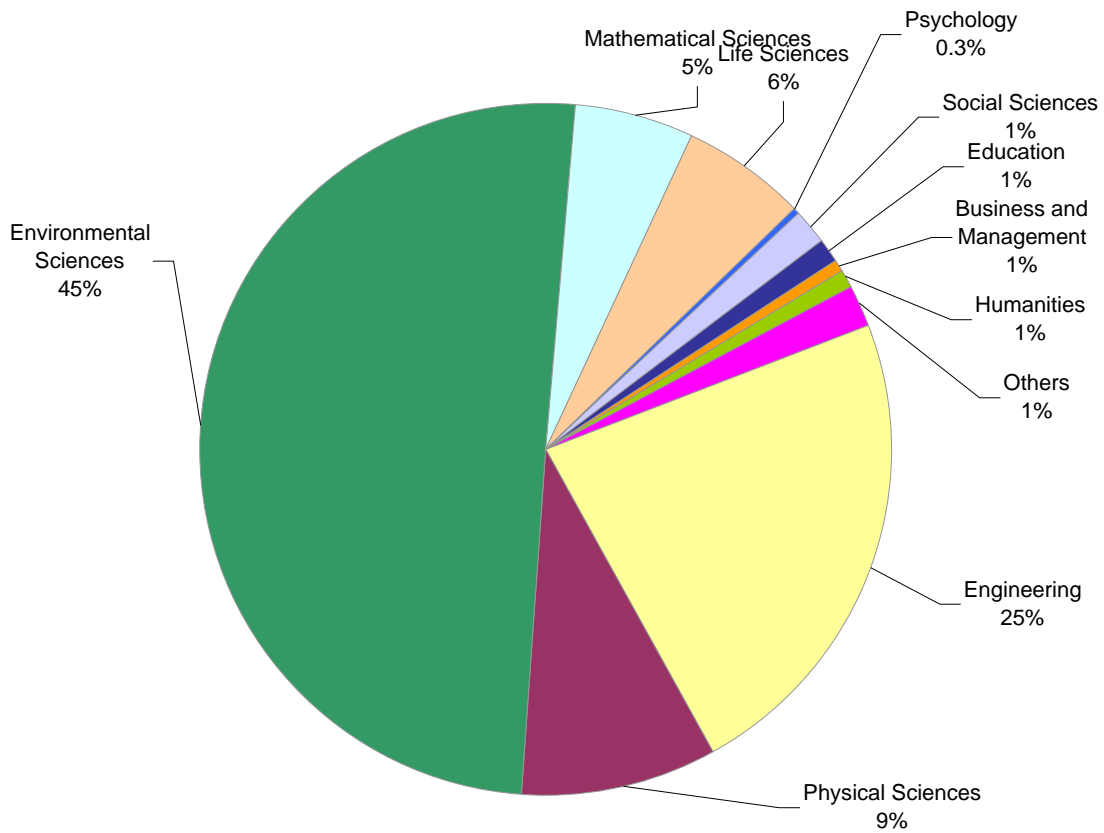


Dartmouth

Total R&D Expenditures FY2003 – FY2007

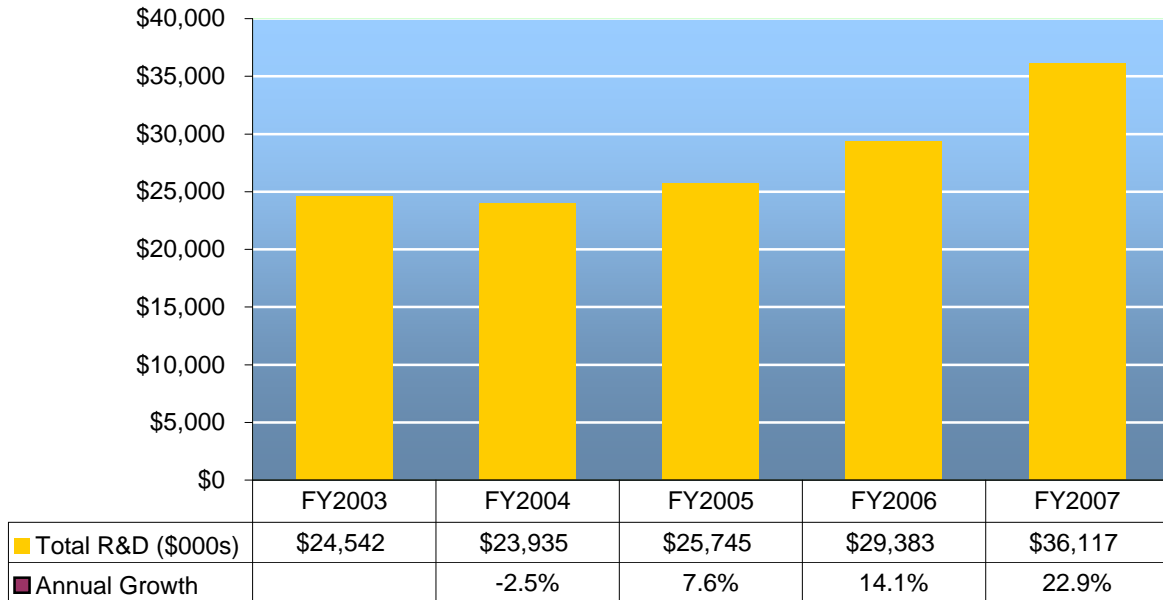


Total R&D Expenditures FY2007

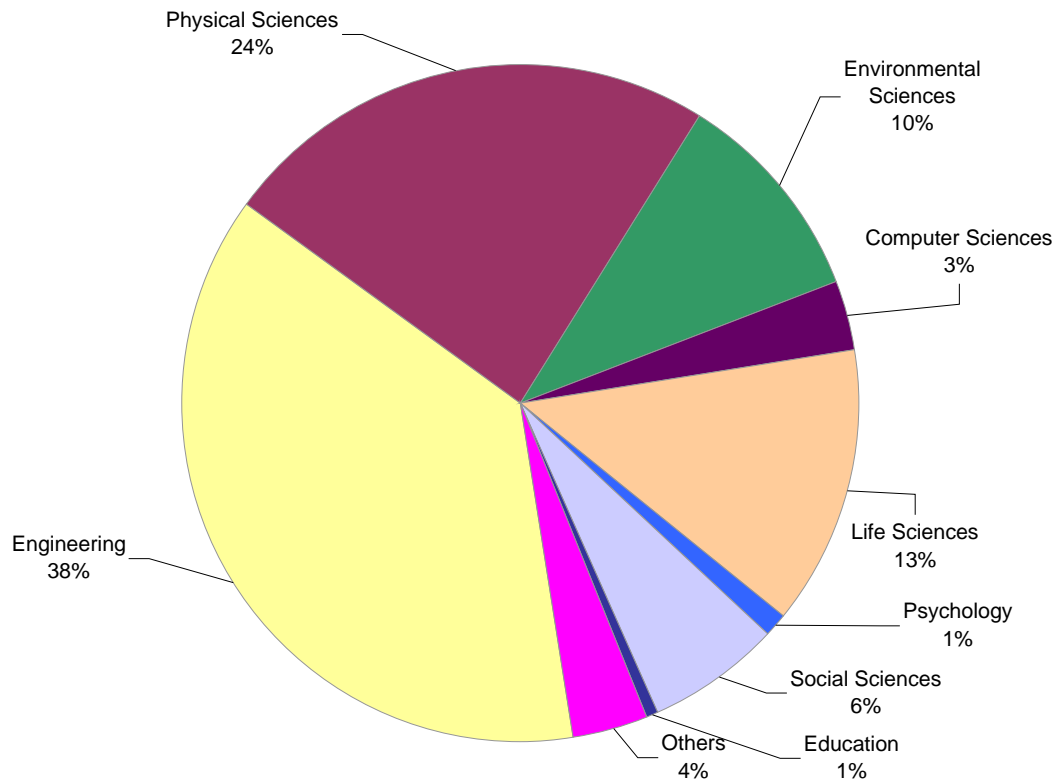


Lowell

Total R&D Expenditures FY2003 – FY2007

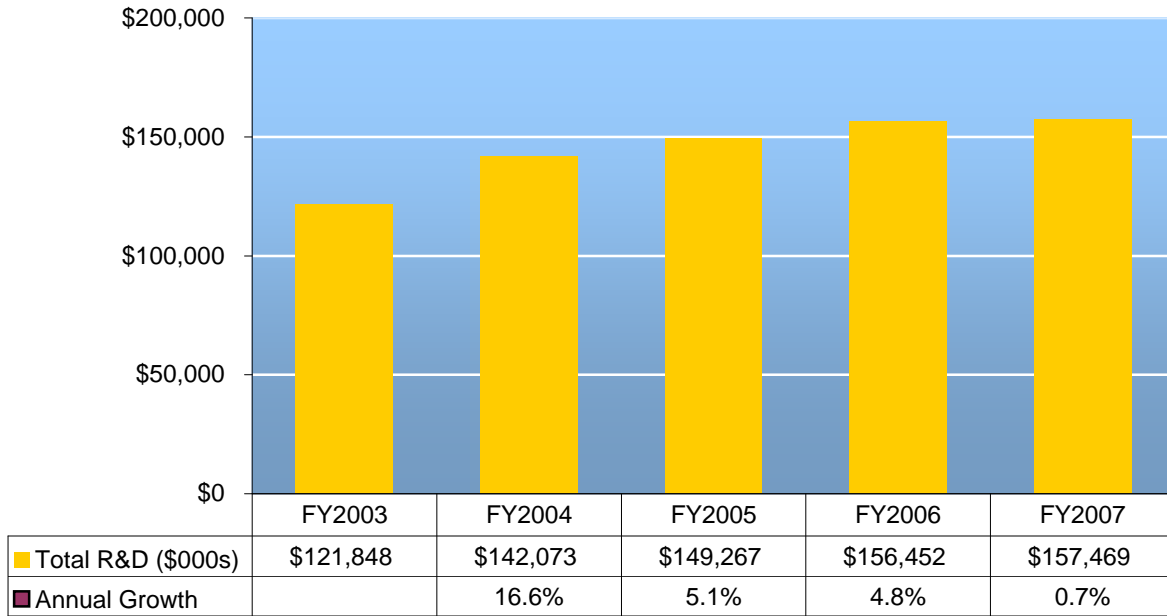


Total R&D Expenditures FY2007



Worcester

Total R&D Expenditures FY2003 – FY2007

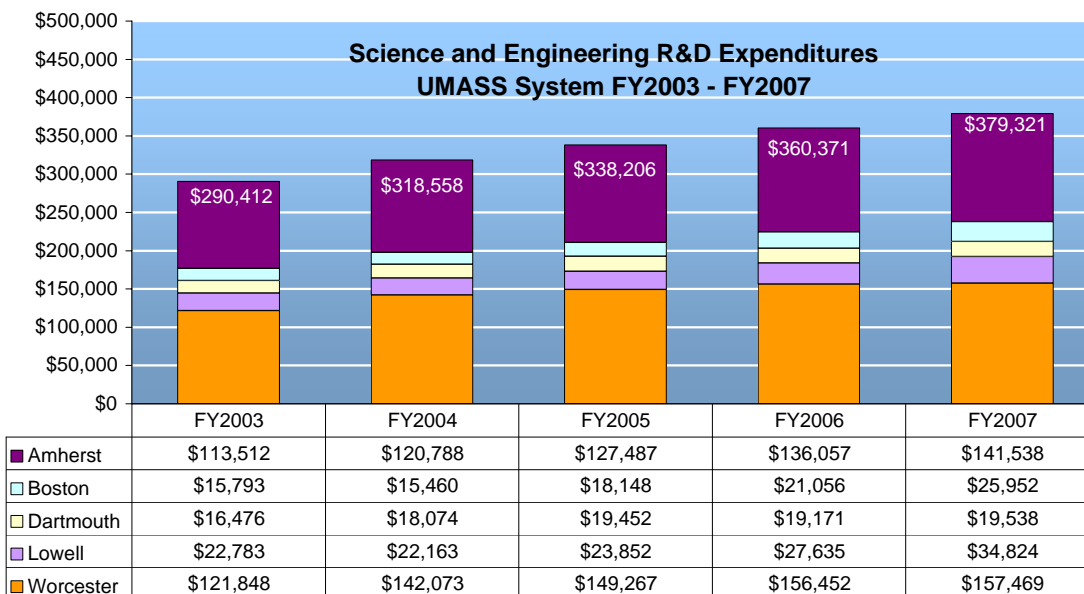


All of Worcester's R&D expenditures are in the life sciences.

**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 FY2003 and FY2007, Science and Engineering R&D Expenditures growth has ranged from 19% (UMass Dartmouth) to 64% (UMass Boston). 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 84% of the entire UMASS System's R&D expenditures in this field, at \$17,660,000. In FY2006, UMass Amherst ranked 16th 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 FY2007, 31% of the total R&D Expenditures activities in UMass Boston occurred within the non-sciences field. At \$11,489,000, this comprises 63% 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 (49.1%, or \$10,116,000.) 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 FY2006, UMass Dartmouth ranked 70th in this field (Appendix H).

5. Over one-third (37.5%) of UMass Lowell's R&D Expenditures in FY2007 were in the field of Engineering. At \$13,556,000, this comprises 27% of the System R&D Expenditures in Engineering. Prominent areas within this field for the UMass Lowell campus include Mechanical Engineering (\$2,779,000) Metallurgical Engineering and Materials Sciences (\$1,229,000) and Electrical Engineering (\$1,655,000).

6. For the UMass Medical School, 100% of R&D Expenditures is in the Life Sciences field. At \$157,469,000, this comprises approximately 72% of the System total R&D Expenditures in the Life Sciences.

Total R&D Expenditures By Field FY2007

FIELD	UMA FY2007	% of UMA Total	% of Field	UMB FY2007	% of UMB Total	% of Field	UMD FY2007	% of UMD Total	% of Field	UML FY2007	% of UML Total	% of Field	UMW FY2007	% of UMW Total	% of Field	System FY2007	% of Total
Engineering (Total)	\$ 32,033	21.9%	63.7%	\$ 97	0.3%	0.2%	\$ 4,608	22.9%	9.2%	\$ 13,556	37.5%	27.0%	\$ -			\$ 50,294	12.7%
Aeronautical & Astronomical	\$ -			\$ -			\$ 10	0.0%	100.0%	\$ -			\$ -			\$ 10	0.0%
Bioengineering/Biomedical	\$ -			\$ -			\$ 6	0.0%	100.0%	\$ -			\$ -			\$ 6	0.0%
Chemical	\$ 4,352	3.0%	91.1%	\$ -			\$ -			\$ 425	1.2%	8.9%	\$ -			\$ 4,777	1.2%
Civil	\$ 7,835	5.4%	87.2%	\$ -			\$ 503	2.5%	5.6%	\$ 651	1.8%	7.2%	\$ -			\$ 8,989	2.3%
Electrical	\$ 13,141	9.0%	86.2%	\$ 97	0.3%	0.6%	\$ 356	1.8%	2.3%	\$ 1,655	4.6%	10.9%	\$ -			\$ 15,249	3.8%
Mechanical	\$ 6,007	4.1%	64.5%	\$ -			\$ 531	2.6%	5.7%	\$ 2,779	7.7%	29.8%	\$ -			\$ 9,317	2.3%
Metallurgical & Materials	\$ -			\$ -			\$ 1,229	6.1%	37.1%	\$ 2,082	5.8%	62.9%	\$ -			\$ 3,311	0.8%
Other	\$ 698	0.5%	8.1%	\$ -			\$ 1,973	9.8%	22.8%	\$ 5,964	16.5%	69.1%	\$ -			\$ 8,635	2.2%
Physical Sciences (Total)	\$ 23,506	16.1%	68.1%	\$ 524	1.4%	1.5%	\$ 1,822	9.1%	5.3%	\$ 8,665	24.0%	25.1%	\$ -			\$ 34,517	8.7%
Astronomy	\$ 3,622	2.5%	100.0%	\$ -			\$ -			\$ -			\$ -			\$ 3,622	0.9%
Chemistry	\$ 15,673	10.7%	85.0%	\$ 280	0.7%	1.5%	\$ 1,211	6.0%	6.6%	\$ 1,280	3.5%	6.9%	\$ -			\$ 18,444	4.6%
Physics	\$ 3,920	2.7%	32.2%	\$ 244	0.7%	2.0%	\$ 611	3.0%	5.0%	\$ 7,385	20.4%	60.7%	\$ -			\$ 12,160	3.1%
Other	\$ 291	0.2%	100.0%	\$ -			\$ -			\$ -			\$ -			\$ 291	0.1%
Environmental Sciences (Total)	\$ 3,956	2.7%	19.2%	\$ 2,839	7.6%	13.8%	\$ 10,116	50.3%	49.1%	\$ 3,691	10.2%	17.9%	\$ -			\$ 20,602	5.2%
Atmospheric	\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	
Earth Sciences	\$ 3,790	2.6%	47.7%	\$ 467	1.2%	5.9%	\$ -			\$ 3,691	10.2%	46.4%	\$ -			\$ 7,948	2.0%
Oceanography	\$ 166	0.1%	1.4%	\$ 1,483	4.0%	12.6%	\$ 10,116	50.3%	86.0%	\$ -			\$ -			\$ 11,765	3.0%
Other	\$ -			\$ 889	2.4%	100.0%	\$ -			\$ -			\$ -			\$ 889	0.2%
Mathematical Sciences (Total)	\$ 2,869	2.0%	68.2%	\$ 19	0.1%	0.5%	\$ 1,088	5.4%	25.9%	\$ 232	0.6%	5.5%	\$ -			\$ 4,208	1.1%
Computer Sciences (Total)	\$ 17,660	12.1%	83.6%	\$ 1,952	5.2%	9.2%	\$ 323	1.6%	1.5%	\$ 1,177	3.3%	5.6%	\$ -			\$ 21,112	5.3%
Life Sciences (Total)	\$ 50,796	34.7%	23.1%	\$ 5,517	14.7%	2.5%	\$ 1,228	6.1%	0.6%	\$ 4,814	13.3%	2.2%	\$ 157,469	100.0%	71.6%	\$ 219,824	55.3%
Agricultural	\$ 20,795	14.2%	96.6%	\$ -			\$ 739	3.7%	3.4%	\$ -			\$ -			\$ 21,534	5.4%
Biological	\$ 21,206	14.5%	25.9%	\$ 2,345	6.3%	2.9%	\$ 465	2.3%	0.6%	\$ 1,378	3.8%	1.7%	\$ 56,562	35.9%	69.0%	\$ 81,956	20.6%
Medical	\$ 5,401	3.7%	5.9%	\$ 2,984	8.0%		\$ -			\$ -			\$ 82,470	52.4%	90.8%	\$ 90,855	22.9%
Other	\$ 3,394	2.3%	13.3%	\$ 188	0.5%	0.7%	\$ 24	0.1%	0.1%	\$ 3,436	9.5%	13.49%	\$ 18,437	11.7%	72.4%	\$ 25,479	6.4%
Psychology (Total)	\$ 5,560	3.8%	54.9%	\$ 4,132	11.0%	40.8%	\$ 52	0.3%	0.5%	\$ 386	1.1%	3.8%	\$ -			\$ 10,130	2.5%
Social Sciences (Total)	\$ 4,608	3.1%	30.4%	\$ 7,956	21.2%	52.5%	\$ 301	1.5%	2.0%	\$ 2,303	6.4%	15.2%	\$ -			\$ 15,168	3.8%
Economics	\$ 1,551	1.1%	61.5%	\$ 729	1.9%	28.9%	\$ 120	0.6%	4.8%	\$ 124	0.3%	4.9%	\$ -			\$ 2,524	0.6%
Political Science	\$ 350	0.2%	22.5%	\$ 1,020	2.7%	65.5%	\$ 150	0.7%	9.6%	\$ 37	0.1%	2.4%	\$ -			\$ 1,557	0.4%
Sociology	\$ 1,383	0.9%	82.0%	\$ 273	0.7%	16.2%	\$ 31	0.2%	1.8%	\$ -			\$ -			\$ 1,687	0.4%
Other	\$ 1,324	0.9%	14.1%	\$ 5,934	15.8%	63.1%	\$ -			\$ 2,142	5.9%	22.8%	\$ -			\$ 9,400	2.4%
Other Sciences (Total)	\$ 550	0.4%	15.9%	\$ 2,916	7.8%	84.1%	\$ -			\$ -			\$ -			\$ 3,466	0.9%
TOTAL, SCI & ENG FIELDS	\$ 141,538	96.7%	37.3%	\$ 25,952	69.3%	6.8%	\$ 19,538	97.1%	5.2%	\$ 34,824	96.4%	9.2%	\$ 157,469	100.0%	41.5%	\$ 379,321	95.4%

Total R&D Expenditures By Field FY2007

FIELD	UMA			UMB			UMD			UML			UMW			System	
	FY2007	% of Total	% of Field	FY2007	% of Total	% of Field	FY2007	% of Total	% of Field	FY2007	% of Total	% of Field	FY2007	% of Total	% of Field	FY2007	% of Total
Education	\$ 4,057	2.8%	33.3%	\$ 7,646	20.4%	62.8%	\$ 237	1.2%	1.9%	\$ 237	0.7%	1.9%	\$ -			\$ 12,177	3.1%
Law	\$ 37	0.0%	12.1%	\$ 46	0.1%	15.1%	\$ -			\$ 222	0.6%	72.8%	\$ -			\$ 305	0.1%
Humanities	\$ 329	0.2%	34.9%	\$ 428	1.1%	45.4%	\$ 185	0.9%	19.6%	\$ -			\$ -			\$ 942	0.2%
Visual and Performing Arts	\$ 30	0.0%	25.6%	\$ 80	0.2%	68.4%	\$ 2	0.0%	1.7%	\$ 5	0.01%	4.3%	\$ -			\$ 117	0.03%
Business and Management	\$ 332	0.2%	39.0%	\$ 299	0.8%	35.1%	\$ 108	0.5%	12.7%	\$ 113	0.3%	13.3%	\$ -			\$ 852	0.2%
Comm., Journalism & Library Sci	\$ -			\$ 50	0.1%	100.0%	\$ -			\$ -			\$ -			\$ 50	0.0%
Social Work	\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	
Other Non-Science and Engin.	\$ -			\$ 2,940	7.9%	79.3%	\$ 50	0.2%	1.3%	\$ 716	2.0%	19.3%	\$ -			\$ 3,706	0.9%
TOTAL, NON-SCI & ENG FIELDS	\$ 4,785	3.3%	26.4%	\$ 11,489	30.7%	63.3%	\$ 582	2.9%	3.2%	\$ 1,293	3.6%	7.1%	\$ -			\$ 18,149	4.6%
TOTAL, SCI & ENG FIELDS	\$ 141,538	96.7%	37.3%	\$ 25,952	69.3%	6.8%	\$ 19,538	97.1%	5.2%	\$ 34,824	96.4%	9.2%	\$ 157,469	100.0%	41.5%	\$ 379,321	95.4%
GRAND TOTAL	\$ 146,323		36.8%	\$ 37,441		9.4%	\$ 20,120		5.1%	\$ 36,117		9.1%	\$ 157,469		39.6%	\$ 397,470	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.

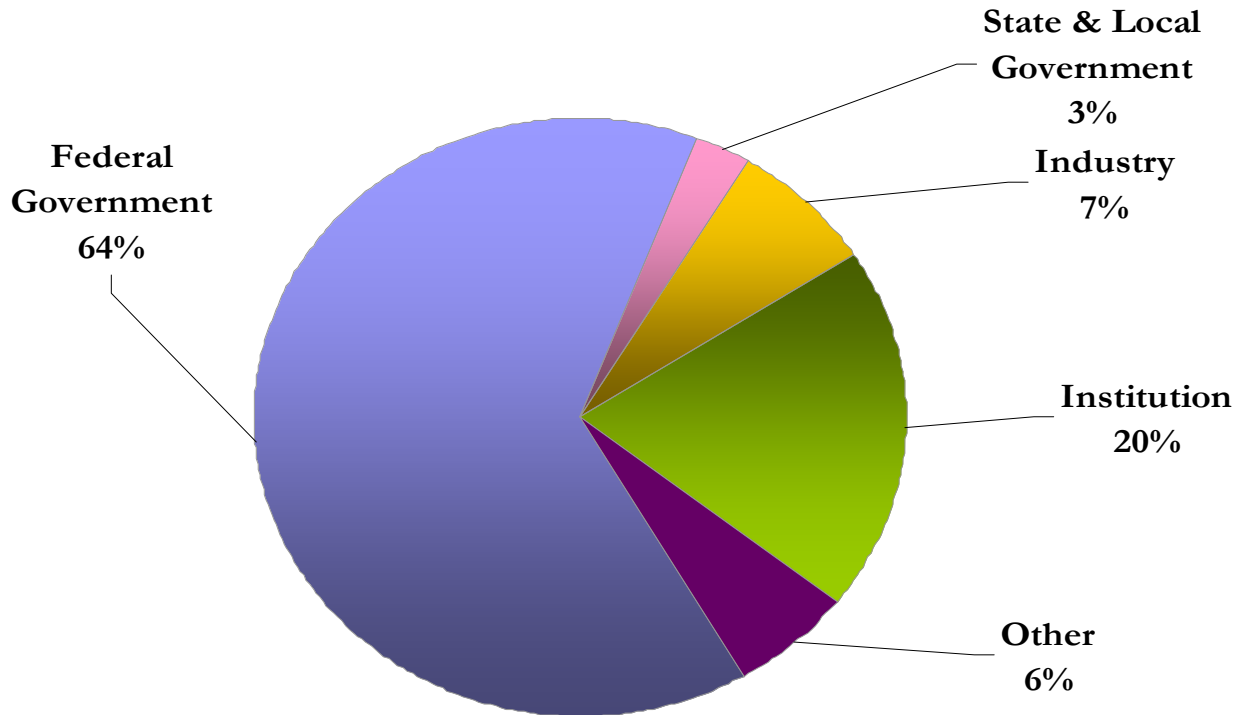
B. 2. SCIENCE AND ENGINEERING R&D EXPENDITURES BY SOURCE OF FUNDS

1. In FY2007, the largest source of R&D Expenditure Funds for the UMASS System was the Federal Government (64%), followed by Institution (20%), Industry (7%), Other (6%), and State and Local Government (3%).

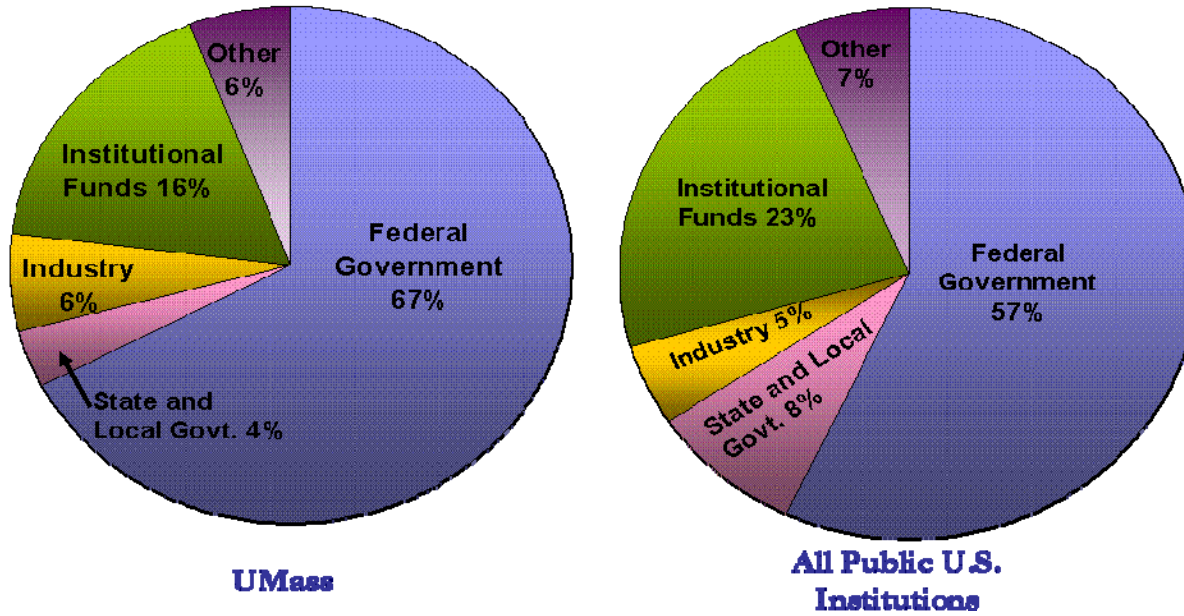
3. The UMASS System generally reflects national trends in terms of the overall distribution R&D Expenditures by source of funds, with some interesting variations within each category of funds. In both instances, the largest source of funds is the federal government, followed by institutional funds. However, for the UMASS System, 67% of Science and Engineering R&D Expenditures were funded by the federal government, as compared to 57% for all public U.S. institutions. Similarly, R&D Expenditure funds from institutional sources for the UMASS System was at 16% as compared to 23% for all U.S. public institutions. For the UMASS System, state and local funds comprised 4% of all Science and Engineering R&D expenditures, as compared to 8% for all U.S. public institutions.

Science and Engineering R&D Expenditures by Source of Funds

(FY2007)



S&E R&D Expenditures by Source, FY 2006



Source: Campus NSF Surveys (with revised data for UMASS); NSF Data Table. All Dollars are in Thousands.

**Science and Engineering R&D Expenditures by Source
FY2003 – FY2007**

	Total R&D Expenditures								
	FY03	FY04	FY05	FY06	FY07	5-Year Change FY03 - FY07		1-Year Change FY06 - FY07	
						\$	%	\$	%
Amherst	\$113,512	\$120,788	\$127,487	\$136,057	\$141,538	\$28,026	24.7%	\$5,481	4.0%
Boston	\$15,793	\$15,460	\$18,148	\$21,056	\$25,952	\$10,159	64.3%	\$4,896	23.3%
Dartmouth	\$16,476	\$18,074	\$19,452	\$19,171	\$19,538	\$3,062	18.6%	\$367	1.9%
Lowell	\$22,783	\$22,163	\$23,852	\$27,635	\$34,824	\$12,041	52.9%	\$7,189	26.0%
Worcester	\$121,848	\$142,073	\$149,267	\$156,452	\$157,469	\$35,621	29.2%	\$1,017	0.7%
System	\$290,412	\$318,558	\$338,206	\$360,371	\$379,321	\$88,909	30.6%	\$18,950	5.3%

	Federal R&D Expenditures								
	FY03	FY04	FY05	FY06	FY07	5-Year Change FY03 - FY07		1-Year Change FY06 - FY07	
						\$	%	\$	%
Amherst	\$60,845	\$65,452	\$66,921	\$69,642	\$71,984	\$11,139	18.3%	\$2,342	3.4%
Boston	\$5,579	\$5,412	\$6,326	\$8,610	\$9,152	\$3,573	64.0%	\$542	6.3%
Dartmouth	\$8,718	\$9,199	\$9,852	\$9,515	\$11,456	\$2,738	31.4%	\$1,941	20.4%
Lowell	\$15,821	\$16,655	\$17,608	\$18,741	\$20,045	\$4,224	26.7%	\$1,304	7.0%
Worcester	\$109,082	\$126,162	\$130,680	\$136,141	\$131,226	\$22,144	20.3%	-\$4,915	-3.6%
System	\$200,045	\$222,880	\$231,387	\$242,649	\$243,863	\$43,818	21.9%	\$1,214	0.5%

	State & Local Government R&D Expenditures								
	FY03	FY04	FY05	FY06	FY07	5-Year Change FY03 - FY07		1-Year Change FY06 - FY07	
						\$	%	\$	%
Amherst	\$3,842	\$3,597	\$3,873	\$5,684	\$5,638	\$1,796	46.7%	-\$46	-0.8%
Boston	\$1,291	\$1,001	\$2,481	\$1,662	\$1,207	-\$84	-6.5%	-\$455	-27.4%
Dartmouth	\$4,228	\$4,027	\$5,039	\$5,069	\$2,210	-\$2,018	-47.7%	-\$2,859	-56.4%
Lowell	\$677	\$380	\$180	\$601	\$969	\$292	43.1%	\$368	61.2%
Worcester	\$1	\$2	\$139	\$35	\$0	-\$1	-100.0%	-\$35	-100.0%
System	\$10,039	\$9,007	\$11,712	\$13,051	\$10,024	-\$15	-0.1%	-\$3,027	-23.2%

**Science and Engineering R&D Expenditures by Source
FY2003 – FY2007**

	Industry-Sponsored R&D Expenditures								
	FY03	FY04	FY05	FY06	FY07	5-Year Change FY03 - FY07		1-Year Change FY06 - FY07	
						\$	%	\$	%
Amherst	\$3,838	\$4,914	\$4,724	\$5,934	\$5,195	\$1,357	35.4%	-\$739	-12.5%
Boston	\$0	\$0	\$0	\$0	\$275	\$275		\$275	
Dartmouth	\$0	\$753	\$1,252	\$1,680	\$762	\$762		-\$918	-54.6%
Lowell	\$4,920	\$3,904	\$4,755	\$4,423	\$5,222	\$302	6.1%	\$799	18.1%
Worcester	\$4,397	\$5,903	\$8,018	\$9,465	\$16,266	\$11,869	269.9%	\$6,801	71.9%
System	\$13,155	\$15,474	\$18,749	\$21,502	\$27,720	\$14,565	110.7%	\$6,218	28.9%

	Institutional R&D Expenditures								
	FY03	FY04	FY05	FY06	FY07	5-Year Change FY03 - FY07		1-Year Change FY06 - FY07	
						\$	%	\$	%
Amherst	\$36,490	\$38,932	\$42,887	\$45,773	\$48,808	\$12,318	33.8%	\$3,035	6.6%
Boston	\$5,815	\$5,861	\$6,731	\$7,007	\$11,122	\$5,307	91.3%	\$4,115	58.7%
Dartmouth	\$2,585	\$4,092	\$3,305	\$2,907	\$4,855	\$2,270	87.8%	\$1,948	67.0%
Lowell	\$1,365	\$1,224	\$1,309	\$3,870	\$8,588	\$7,223	529.2%	\$4,718	121.9%
Worcester	\$0	\$1,106	\$1,583	\$2,377	\$1,385	\$1,385		-\$992	-41.7%
System	\$46,255	\$51,215	\$55,815	\$61,934	\$74,758	\$28,503	61.6%	\$12,824	20.7%

	Other R&D Expenditures								
	FY03	FY04	FY05	FY06	FY07	5-Year Change FY03 - FY07		1-Year Change FY06 - FY07	
						\$	%	\$	%
Amherst	\$8,503	\$7,893	\$9,082	\$9,024	\$9,913	\$1,410	16.6%	\$889	9.9%
Boston	\$3,108	\$3,186	\$2,610	\$3,777	\$4,196	\$1,088	35.0%	\$419	11.1%
Dartmouth	\$945	\$3	\$4	\$0	\$255	-\$690	-73.0%	\$255	100.0%
Lowell	\$0	\$0	\$0	\$0	\$0	\$0		\$0	
Worcester	\$8,368	\$8,900	\$8,847	\$8,434	\$8,592	\$224	2.7%	\$158	1.9%
System	\$20,924	\$19,982	\$20,543	\$21,235	\$22,956	\$2,032	9.7%	\$1,721	8.1%

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

**Science and Engineering R&D Expenditures
Percent Basic Research FY2007**

FY07 Basic Research as a % of:		
	Federal R&D	Total R&D
Amherst	70%	70%
Boston	100%	100%
Dartmouth	90%	75%
Lowell	78%	76%
Worcester	59%	50%

Source: Campus NSF surveys.

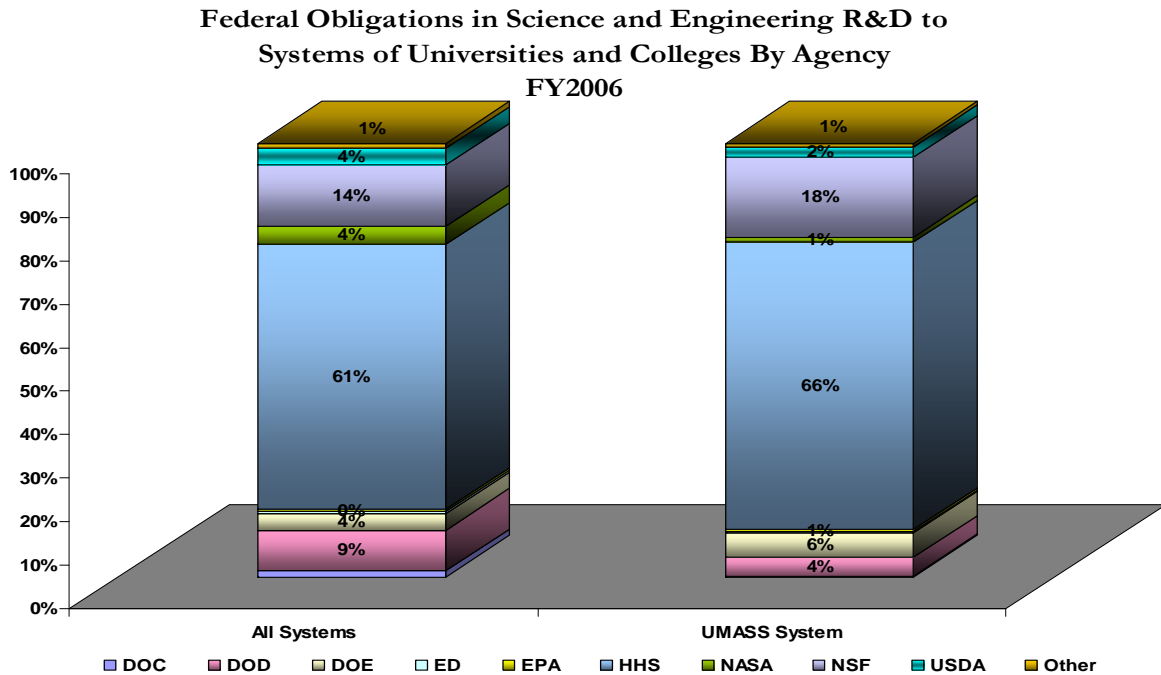
B. 3. FEDERAL OBLIGATIONS IN SCIENCE AND ENGINEERING R&D TO SYSTEMS OF UNIVERSITIES AND COLLEGES BY AGENCY

1. In FY2007, total federal obligations in Science and Engineering R&D for the UMASS System was at approximately \$244 million.

2. This reflects a 22% increase from FY2006, when total federal obligations to the UMASS System was at \$199.3 million. (Appendix P).

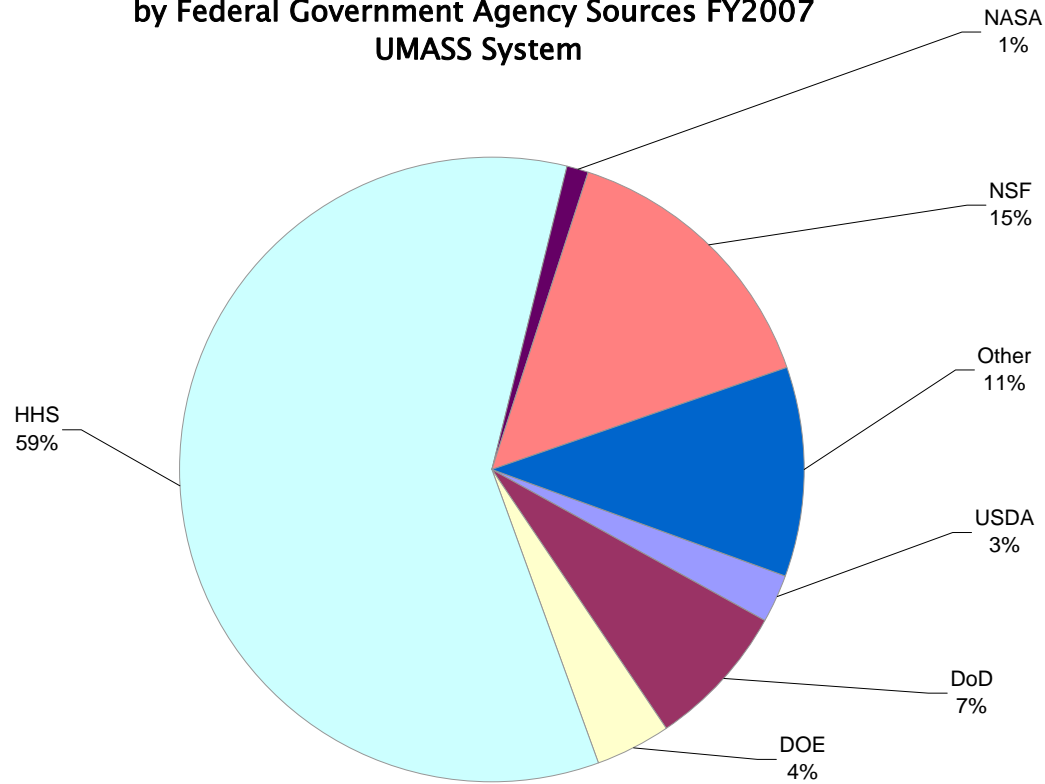
3. In FY2007, the largest proportion of federal obligations in Science and Engineering R&D Expenditures to the UMASS System came from the Department of Health and Human Services (59%), followed by the National Science Foundation (15%), Department of Defense (7%), Department of Energy (4%), Department of Agriculture (3%), and NASA (1%). All Other sources comprised approximately 11% of all federal obligations.

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 FY2006 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 66% for the UMASS System); similarly, for the UMASS System, federal obligation monies from the NSD comprised 18% of total federal obligations as compared to 14% for all Systems; Department of Energy obligations were at 6% for the UMASS System as compared to 4% for All Systems. Department of Defense obligations for all Systems was at 9% compared to 4% 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 FY2007
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	\$ 71,984	\$ 5,469	7.6%	\$ 6,723	9.3%	\$ 7,707	10.7%	\$ 17,425	24.2%	\$ 2,690	3.7%	\$ 27,274	37.9%	\$ 4,696	6.5%
Boston	\$ 9,151	\$ -	0.0%	\$ 283	3.1%	\$ 1,469	16.1%	\$ 2,667	29.1%	\$ -	0.0%	\$ 2,801	30.6%	\$ 1,931	21.1%
Dartmouth	\$ 11,456	\$ 745	6.5%	\$ 1,278	11.2%	\$ -	0.0%	\$ 233	2.0%	\$ 106	0.9%	\$ 2,199	19.2%	\$ 6,895	60.2%
Lowell	\$ 20,045	\$ -	0.0%	\$ 8,539	42.6%	\$ 687	3.4%	\$ 5,030	25.1%	\$ 494	2.5%	\$ 3,181	15.9%	\$ 2,114	10.5%
Worcester	\$ 131,226	\$ -	0.0%	\$ 1,012	0.8%	\$ 192	0.1%	\$ 119,103	90.8%	\$ -	0.0%	\$ 361	0.3%	\$ 10,558	8.0%
System	\$ 243,862	\$ 6,214	2.5%	\$ 17,835	7.3%	\$ 10,055	4.1%	\$ 144,458	59.2%	\$ 3,290	1.3%	\$ 35,816	14.7%	\$ 26,194	10.7%

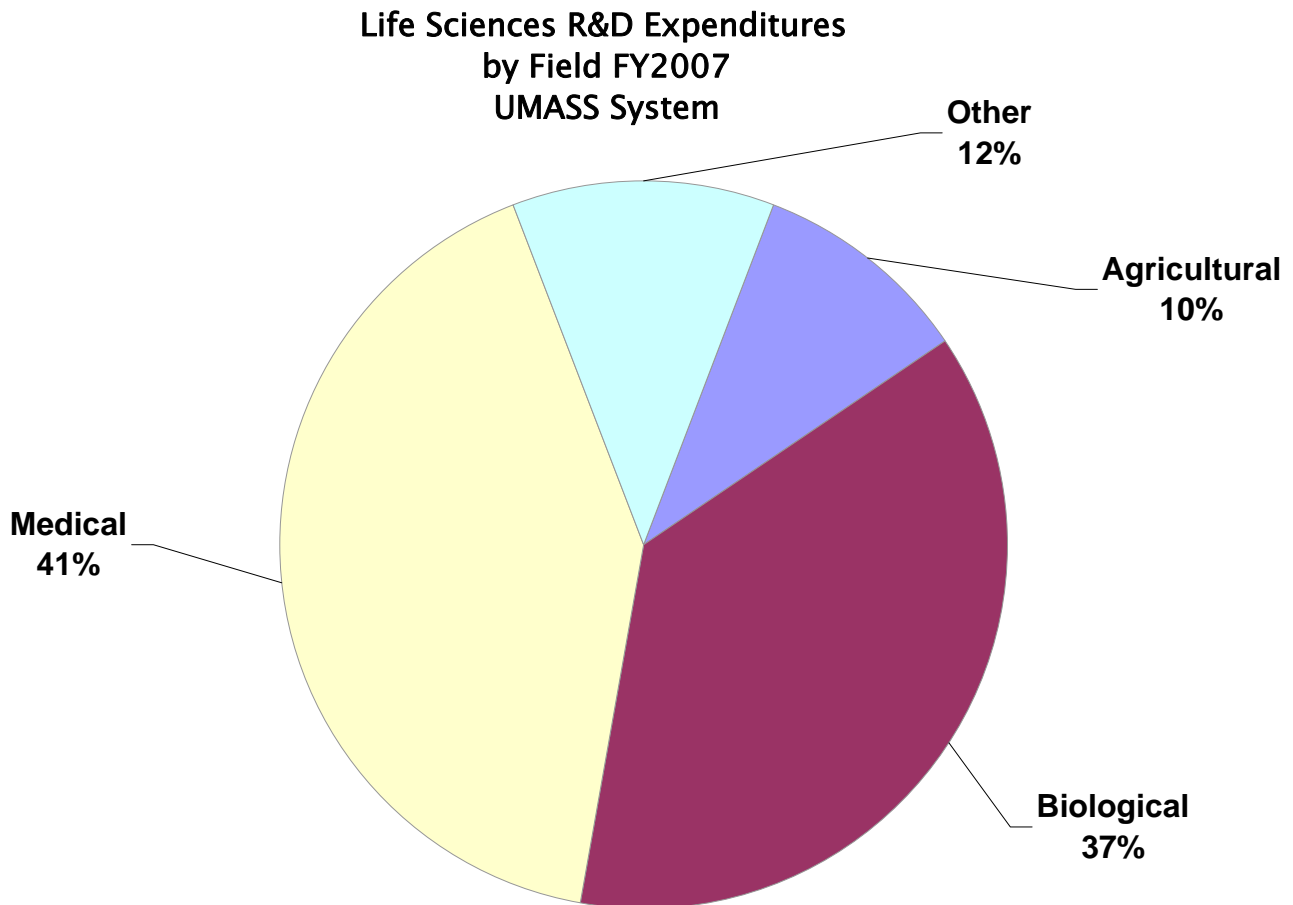
Source: Campus NSF surveys. All dollars are in thousands.

Note: HHS includes NIH

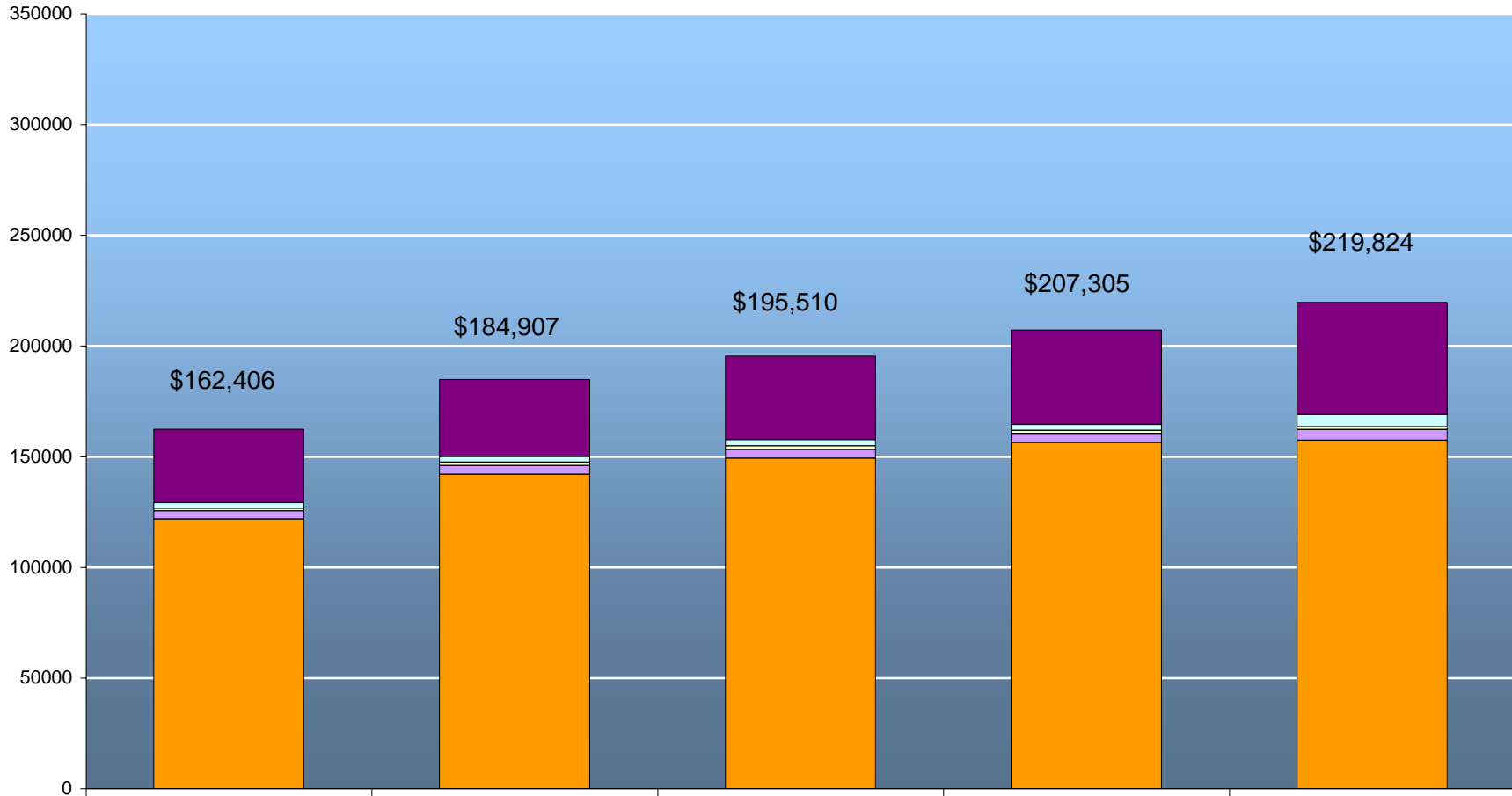
C. LIFE SCIENCES
R&D EXPENDITURES

C. LIFE SCIENCES R&D EXPENDITURES

1. In FY2007, R&D Expenditures in the Life Sciences for the UMASS System was at approximately \$219.8 million, comprising approximately well over half (55.3%) of total R&D Expenditures.
2. This represents a 35% increase from FY2003, and a 6% increase between FY2006-07.
3. In FY2007, 41% 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 (12%).
4. At the System level, the largest growth has been within the Medical Sciences, with FY2006-07 R&D Expenditures increasing by 14.4%.



**Life Sciences R&D Expenditures
UMASS System FY2003 - FY2007**



	FY03	FY04	FY05	FY06	FY07
Amherst	33195	34791	37850	42797	50796
Boston	2531	2596	2768	2626	5517
Dartmouth	1164	1529	1681	1319	1228
Lowell	3668	3918	3944	4111	4814
Worcester	121848	142073	149267	156452	157469

**Life Sciences R&D Expenditures by Field
FY2003 - FY2007**

	Life Sciences R&D Expenditures									
	FY03	FY04	FY05	FY06	FY07	5-Year Change FY03 - FY07		1-Year Change FY06 - FY07		
						\$	%	\$	%	
Amherst	\$33,195	\$34,791	\$37,850	\$42,797	\$50,796	\$17,601	53.0%	\$7,999	18.7%	
Boston	\$2,531	\$2,596	\$2,768	\$2,626	\$5,517	\$2,986	118.0%	\$2,891	110.1%	
Dartmouth	\$1,164	\$1,529	\$1,681	\$1,319	\$1,228	\$64	5.5%	-\$91	-6.9%	
Lowell	\$3,668	\$3,918	\$3,944	\$4,111	\$4,814	\$1,146	31.2%	\$703	17.1%	
Worcester	\$121,848	\$142,073	\$149,267	\$156,452	\$157,469	\$35,621	29.2%	\$1,017	0.7%	
System	\$162,406	\$184,907	\$195,510	\$207,305	\$219,824	\$57,418	35.4%	\$12,519	6.0%	

	Agricultural									
	FY03	FY04	FY05	FY06	FY07	5-Year Change FY03 - FY07		1-Year Change FY06 - FY07		
						\$	%	\$	%	
Amherst	\$10,762	\$15,321	\$17,017	\$19,183	\$20,795	\$10,033	93.2%	\$1,612	8.4%	
Boston	\$0	\$0	\$0	\$0	\$0	\$0		\$0		
Dartmouth	\$617	\$1,064	\$1,180	\$744	\$739	\$122	19.8%	-\$5	-0.7%	
Lowell	\$0	\$0	\$0	\$0	\$0	\$0		\$0		
Worcester	\$0	\$0	\$0	\$0	\$0	\$0		\$0		
System	\$11,379	\$16,385	\$18,197	\$19,927	\$21,534	\$10,155	89.2%	\$1,607	8.1%	

	Biological									
	FY03	FY04	FY05	FY06	FY07	5-Year Change FY03 - FY07		1-Year Change FY06 - FY07		
						\$	%	\$	%	
Amherst	\$20,073	\$16,148	\$16,309	\$17,996	\$21,206	\$1,133	5.6%	\$3,210	17.8%	
Boston	\$1,350	\$1,485	\$1,417	\$1,439	\$2,345	\$995	73.7%	\$906	63.0%	
Dartmouth	\$258	\$169	\$190	\$263	\$465	\$207	80.2%	\$202	76.8%	
Lowell	\$970	\$1,200	\$1,036	\$885	\$1,378	\$408	42.1%	\$493	55.7%	
Worcester	\$50,968	\$57,951	\$58,543	\$61,571	\$56,562	\$5,594	11.0%	-\$5,009	-8.1%	
System	\$73,619	\$76,953	\$77,495	\$82,154	\$81,956	\$8,337	11.3%	-\$198	-0.2%	

**Life Sciences R&D Expenditures by Field
FY2003 – FY2007**

	Medical								
	FY03	FY04	FY05	FY06	FY07	5-Year Change FY03 - FY07		1-Year Change FY06 - FY07	
						\$	%	\$	%
Amherst	\$884	\$1,062	\$1,804	\$3,191	\$5,401	\$4,517	511.0%	\$2,210	69.3%
Boston	\$0	\$0	\$0	\$0	\$2,984	\$2,984		\$2,984	
Dartmouth	\$0	\$0	\$0	\$0	\$0	\$0		\$0	
Lowell	\$2,681	\$2,715	\$2,886	\$0	\$0	-\$2,681	-100.0%	\$0	
Worcester	\$53,078	\$65,176	\$69,314	\$76,250	\$82,470	\$29,392	55.4%	\$6,220	8.2%
System	\$56,643	\$68,953	\$74,004	\$79,441	\$90,855	\$34,212	60.4%	\$11,414	14.4%

	Other Life Sciences								
	FY03	FY04	FY05	FY06	FY07	5-Year Change FY03 - FY07		1-Year Change FY06 - FY07	
						\$	%	\$	%
Amherst	\$1,476	\$2,260	\$2,720	\$2,427	\$3,394	\$1,918	129.9%	\$967	39.8%
Boston	\$1,181	\$1,111	\$1,351	\$1,187	\$188	-\$993	-84.1%	-\$999	-84.2%
Dartmouth	\$289	\$296	\$311	\$312	\$24	-\$265	-91.7%	-\$288	-92.3%
Lowell	\$17	\$3	\$22	\$3,226	\$3,436	\$3,419	20111.8%	\$210	6.5%
Worcester	\$17,802	\$18,946	\$21,410	\$18,631	\$18,437	\$635	3.6%	-\$194	-1.0%
System	\$20,765	\$22,616	\$25,814	\$25,783	\$25,479	\$4,714	22.7%	-\$304	-1.2%

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 2000–2006**

(Dollars in Thousands)

Division and State	2000	2001	2002	2003	2004	2005	2006
United States	30,069,991	32,805,014	36,384,500	40,074,699	43,228,773	45,750,413	47,760,402
New England	2,357,803	2,562,238	2,777,776	3,036,952	3,321,575	3,434,909	3,638,649
Connecticut	468,435	498,745	538,070	594,008	648,647	669,199	692,524
Maine	57,753	68,034	69,222	75,092	87,353	81,624	120,038
Massachusetts	1,486,174	1,578,977	1,697,182	1,821,930	2,000,270	2,079,463	2,158,748
New Hampshire	150,982	196,975	220,061	252,210	277,201	287,472	315,394
Rhode Island	129,697	142,625	163,052	187,131	192,326	199,709	230,104
Vermont	64,762	76,882	90,189	106,581	115,778	117,442	121,841
Institution	2000	2001	2002	2003	2004	2005	2006
U. MA Worcester	97,587	111,221	132,729	148,823	169,090	176,349	191,659
U. MA Amherst	96,907	97,976	109,332	113,512	120,788	127,487	136,057
U. MA Lowell	19,334	20,656	22,827	22,783	22,163	23,852	27,635
U. MA Dartmouth	6,905	9,488	15,030	16,476	18,074	19,452	19,171
U. MA Boston	12,058	11,672	13,121	15,793	15,460	18,148	21,056
UMass System Total	232,791	251,013	293,039	317,387	345,575	365,288	395,578
As % of US	0.8%	0.8%	0.8%	0.8%	0.8%	0.8%	0.8%
As % of New England	9.9%	9.8%	10.5%	10.5%	10.4%	10.6%	10.9%
As % of MA	15.7%	15.9%	17.3%	17.4%	17.3%	17.6%	18.3%

**Appendix A2: UMass Science and Engineering R&D Expenditures as Percent of
US, New England, Massachusetts Figures by Field: FY 2006**

(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	47,760,402	2,601,993	28,831,208	1,967,831	3,823,362	874,831	1,703,365	881,630	7,076,182
New England	3,638,649	320,885	2,044,488	140,279	328,695	78,524	134,097	88,329	503,352
Connecticut	692,524	14,252	562,523	11,329	34,849	24,107	12,300	462	32,702
Maine	120,038	23,006	45,887	2,511	5,774	1,542	21,334	5,040	14,944
Massachusetts	2,158,748	191,482	1,057,381	100,654	261,201	38,425	81,447	45,213	382,945
New Hampshire	315,394	56,986	164,545	6,537	11,202	8,048	5,756	18,546	43,774
Rhode Island	230,104	34,620	107,015	17,860	14,297	4,632	12,972	11,986	26,722
Vermont	121,841	539	107,137	1,388	1,372	1,770	288	7,082	2,265
U. MA Amherst	136,057	4,938	42,797	20,385	29,363	5,977	3,434	862	28,301
U. MA Boston	21056	2250	2,626	602	970	1,758	10,114	2,612	124
U. MA Dartmouth	19,171	9,565	1,319	1,298	1,422	123	567	-	4,877
U. MA Lowell	27,635	4,016	4,111	682	7,767	251	2,042	244	8,522
U. MA Worcester	191,659	-	191,659	-	-	-	-	-	-
UMass System Total	395,578	20,769	242,512	22,967	39,522	8,109	16,157	3,718	41,824
As % of US	0.8%	0.8%	0.8%	1.2%	1.0%	0.9%	0.9%	0.4%	0.6%
As % of New England	10.9%	6.5%	11.9%	16.4%	12.0%	10.3%	12.0%	4.2%	8.3%
As % of MA	18.3%	10.8%	22.9%	22.8%	15.1%	21.1%	19.8%	8.2%	10.9%

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2006.

Appendix B: R&D Expenditures at Universities and Colleges, Ranked by FY 2006 R&D Expenditures: FY 1999–2006

		(Dollars in Thousands)							
Rank	Institution	1999	2000	2001	2002	2003	2004	2005	2006
	All institutions	27,534,145	30,072,979	32,811,229	36,393,689	40,086,969	43,242,403	45,777,167	47,760,402
1	Johns Hopkins U., The ^a	874,518	901,156	999,246	1,140,235	1,244,132	1,375,014	1,443,792	1,499,977
2	U. WI Madison	499,688	554,361	604,143	662,101	717,044	763,875	798,099	831,895
3	U. CA, Los Angeles	477,620	530,826	693,801	787,598	849,357	772,569	785,625	811,493
4	U. MI all campuses	508,619	551,556	600,523	673,724	780,054	769,126	808,887	800,488
5	U. CA, San Francisco	417,095	443,013	524,975	596,965	671,443	728,321	754,444	796,149
6	U. WA	482,659	529,342	589,626	627,273	684,814	713,976	707,519	778,148
7	U. CA, San Diego	461,632	518,559	556,533	585,008	646,508	708,690	721,035	754,766
8	Stanford U.	426,549	457,822	482,906	538,474	603,227	671,046	714,897	679,196
9	U. PA	383,569	430,389	469,852	522,269	564,635	596,756	654,982	676,052
10	Duke U.	348,274	356,625	375,133	441,533	520,191	520,871	630,752	657,080
11	OH State U. all campuses	322,810	361,399	390,652	432,387	496,438	518,088	608,923	652,329
12	Cornell U. all campuses	395,552	410,393	443,828	496,123	554,760	575,554	606,804	648,802
13	PA State U. all campuses	379,402	427,575	458,066	492,739	533,427	600,139	625,764	644,182
14	MA Institute of Technology	420,306	426,299	435,495	446,786	485,764	543,448	580,742	600,748
15	U. MN all campuses	371,384	411,380	462,011	494,265	508,557	526,270	548,873	594,877
16	U. CA, Davis	307,950	364,789	432,396	456,653	482,145	511,757	546,978	573,002
17	U. FL	304,447	313,692	347,892	386,316	429,734	447,146	530,734	565,491
18	Washington U. St. Louis	315,606	362,216	406,642	416,960	474,328	489,565	531,846	547,674
19	U. CA, Berkeley	451,539	518,514	446,273	474,746	507,186	525,598	554,551	546,035
20	U. AZ	320,245	345,090	367,128	390,827	454,941	478,680	530,233	535,847
21	U. Pittsburgh all campuses	249,477	294,809	348,792	400,200	409,684	461,693	522,448	530,162
22	Columbia U. in the City of NY	279,587	319,693	354,497	405,403	437,669	468,484	535,424	529,945
23	U. CO all campuses	318,618 e	353,908 i	365,472	399,818	436,761	482,992	517,067	512,794
24	TX A&M U. all campuses	402,203	397,268	407,041	436,681	456,235	456,809	479,735	492,955
25	U. IL Urbana-Champaign	358,247	373,024	390,863	427,174	493,581	506,041	499,711	476,198
26	Baylor C. of Medicine	272,198	334,175	381,461	411,924	461,763	476,075	458,694	462,375
27	Yale U.	274,050	296,706	321,514	354,243	387,644	422,828	431,618	460,075
28	U. TX M. D. Anderson Cancer Ctr.	155,126	182,196	212,746	262,145	315,169	353,034	383,780	457,696
29	Harvard U.	326,193	341,810	372,107	401,367	408,707	454,495	447,196	453,156
30	U. Southern CA	280,741	300,445	340,597	372,397	414,099	426,665	445,036	450,173
31	U. NC Chapel Hill	252,767	269,072	303,576	370,806	390,542	416,727	441,033	443,790
32	GA Institute of Technology all campuses	263,725	304,511	306,533	340,347	364,190	410,799	425,386	440,898
33	U. TX Austin	258,122	272,811	295,104	320,966	343,854	343,886	410,981	431,398
34	Northwestern U.	233,809	245,774	257,933	282,154	319,722	358,947	387,242	419,985
35	U. MD Baltimore	140,903	224,346	239,007	266,822	297,271	317,293	304,396	405,260
36	Vanderbilt U.	149,675	171,926	186,504	208,305	276,074	318,335	350,433	376,893
37	Purdue U. all campuses	226,411	234,536	254,917	285,778	309,476	365,779	364,986	372,958
38	Case Western Reserve U.	182,332	193,057	198,253	219,042	250,674	231,800	323,618	369,264
39	Scripps Research Institute, The	NA	NA	NA	NA	NA	307,910	330,170	367,375
40	U. Rochester	177,126	197,335	234,261	261,601	285,768	312,303	345,337	366,658
41	MI State U.	207,912	238,436	265,946	289,787	321,410	325,438	333,735	358,097
42	IN U. all campuses	194,790	227,737	259,899	299,080	337,669	384,168	307,137	355,004
43	U. MD College Park	257,628	252,429	267,383	324,980	321,899	325,648	338,648	354,244
44	U. IA	207,135	236,944	255,348	288,808	292,035	312,914	334,144	346,357
45	Emory U.	189,170	206,070	236,997	271,238	323,224	311,685	333,665	345,989
46	LA State U. all campuses	225,808	251,233	268,911	287,363	314,446	341,634	356,828	343,775
47	U. NE all campuses	189,480 i	192,639	223,964	247,948	276,424	299,550	333,126	333,243
48	U. TX Southwestern Medical Ctr. Dallas	165,520	189,216	222,376	263,958	276,692	314,403	320,800	333,237
49	U. IL Chicago	175,093	195,839	233,098	259,852	291,507	312,768	318,279	332,176
50	U. AL Birmingham, The	232,115	233,461	231,702	255,053	284,497	310,950	318,536	331,436
51	NC State U.	270,621	277,946	299,259	290,018	286,025	292,720	302,596	330,936

Appendix B: R&D Expenditures at Universities and Colleges, Ranked by FY 2006 R&D Expenditures: FY 1999–2006

		(Dollars in Thousands)							
Rank	Institution	1999	2000	2001	2002	2003	2004	2005	2006
52	U. KY all campuses	174,034	202,392	211,721	236,275	272,062	297,610	306,653	323,958
53	U. GA	237,493	258,476	272,298	284,660	299,748	313,160	316,806	323,843
54	VA Polytechnic Institute and State U.	169,250	192,672	216,323	232,560	247,807	268,752	289,994	321,722
55	Rutgers, The State U. NJ all campuses	213,838	225,268	236,793	258,829	278,763	296,534	309,531	308,204
56	U. Chicago	162,805	170,678	194,125	225,264	247,322	272,390	293,970	305,301
57	U. CA, Irvine	141,842	158,437	179,866	209,469	234,656	257,024	276,763	300,229
58	SUNY Buffalo all campuses	166,823	187,692	186,829	226,959	240,180	258,952	267,271	297,909
59	U. Cincinnati all campuses	153,002	171,906	192,895	216,652	254,101	276,326	286,036	294,150
60	U. South FL	123,961	145,397	171,550	197,894	213,249	240,021	259,218	285,941
61	NY U.	167,179	182,205	190,722	222,978	241,593	259,333	276,198	284,164
62	SUNY Albany	64,278	82,792	70,119	67,493	120,655	203,977	259,708	274,354
63	Mt. Sinai School of Medicine	127,765	149,846	176,946	185,335	203,853	212,786	225,293	273,216
64	OR Health & Science U.	120,429	131,486	136,785	158,729	197,178	254,447	266,687	272,174
65	CA Institute of Technology	212,216	222,666	215,085	220,004	240,664	261,098	265,364	270,269
66	Boston U.	141,102	154,029	172,031	192,612	224,841	240,867	246,520	255,615
67	CO State U.	150,281	152,279	161,144	178,845	187,054	214,886	236,211	253,992
68	U. HI Manoa	156,810	161,300	156,976	161,823	179,285	236,368	230,651	249,635
69	U. TN all campuses	158,930	163,690	161,898	188,261	217,389	228,760	255,699	249,067
70	U. UT	153,843	187,661	197,597	216,707	223,739	230,146	244,691	248,168
71	U. of Medicine and Dentistry NJ	126,277	140,951	162,417	178,156	190,763	209,134	239,778	245,771
72	U. VA all campuses	131,138	140,416	149,547	182,340	206,199	228,532	235,058	238,754
73	SUNY Stony Brook all campuses	148,982	163,307	168,487	184,045	200,330	213,547	212,289	234,635
74	IA State U.	161,301	175,558	179,196	188,664	199,566	211,996	209,545	221,998
75	Wayne State U.	146,832	156,814	175,984	199,007	214,642	225,475	226,331	220,731
76	Rockefeller U.	121,519	124,138	145,571	166,603	192,143	192,222	198,719	215,417
77	U. MO-Columbia	149,002	158,861	174,782	177,011	205,212	217,550	220,718	215,240
78	U. CT all campuses	134,986	161,084	164,366	172,003	190,341	211,236	219,982	215,184
79	U. Miami	139,608	145,795	153,772	171,319	177,709	194,446	209,572	213,516
80	Carnegie Mellon U.	142,174	137,980	144,882	188,191	186,351	205,149	200,297	212,506
81	AZ State U. main campus	107,184	108,117	118,763	123,016	145,591	152,164	166,923	201,955
82	Dartmouth C.	69,522	78,874	109,096	126,839	155,795	173,266	179,094	200,277
83	WA State U.	96,943	104,796	107,937	146,862	175,181	171,735	182,677	196,391
84	U. KS all campuses	132,752	148,670	156,467	172,131	173,024	181,192	190,105	195,947
85	U. MA Worcester	83,040	97,587	111,221	132,729	148,823	169,090	176,349	191,659
86	MS State U.	110,896	132,503	146,939	158,652	165,922	191,352	179,825	189,917
87	OR State U.	139,285	140,751	153,925	161,735	167,631	170,286	180,309	189,606
88	Yeshiva U.	111,771	139,618	148,230	157,124	177,236	183,253	193,104	189,416
89	Princeton U.	124,237	134,875	149,411	164,408	179,951	188,373	202,380	188,165
90	FL State U.	97,673	105,095	113,817	134,351	152,277	168,132	172,858	185,633
91	Wake Forest U.	82,827	86,840	98,343	111,634	130,405	133,753	185,152	183,129
92	U. NM all campuses	115,850	133,980	156,619	150,598	158,239	170,085	178,703	181,223
93	U. TX Medical Branch	93,580	97,896	102,722	129,534	153,122	166,798	174,254	179,915
94	Clemson U.	99,341	114,903	123,885	134,840	152,986	158,585	175,127	179,840
95	U. OK all campuses	142,085	150,902	148,695	169,373	174,466	158,578	173,663	178,719
96	Medical U. SC	55,819	65,243	116,687	132,030	150,551	163,179	178,086	176,055
97	U. TX Health Science Ctr. Houston	105,307	119,587	125,439	138,380	149,294	147,328	152,631	175,154
98	U. CA, Santa Barbara	104,561	118,154	116,372	131,795	149,130	151,325	165,014	174,429
99	NM State U. all campuses	79,877	79,695	86,963	103,078	108,613	93,329	125,427	169,029
100	Brown U.	76,330	81,476	91,636	109,482	125,090	130,741	138,262	157,926
101	U. SC all campuses	105,835	104,398	109,973	123,108	121,410	121,671	122,212	153,737
102	U. AK Fairbanks all campuses	88,825	102,500	110,195	116,279	128,916	132,212	139,488	153,470
103	U. TX Health Science Ctr. San Antonio	87,804	103,824	115,154	129,616	133,304	137,039	142,375	150,040

Appendix B: R&D Expenditures at Universities and Colleges, Ranked by FY 2006 R&D Expenditures: FY 1999–2006

(Dollars in Thousands)

Rank	Institution	1999	2000	2001	2002	2003	2004	2005	2006
104	VA Commonwealth U.	79,785	88,220	99,180	109,619	126,451	132,839	146,105	149,256
105	Medical C. WI	61,446	70,581	83,857	96,700	108,608	139,235	143,540	147,140
106	UT State U.	95,364	103,161	121,359	121,621	138,862	153,616	131,624	138,670
107	U. MA Amherst	86,576	96,907	97,976	109,332	113,512	120,788	127,487	136,057
108	U. Louisville	57,051	64,062	72,857	80,974	88,522	110,653	128,347	135,873
109	Tufts U.	100,872	105,783	105,806	109,291	112,609	126,432	131,028	128,965
110	U. CA Office of the President	NA	NA	NA	NA	NA	90,233	97,245	128,770
111	Auburn U. all campuses	80,544	92,612	106,347	108,775	117,000	125,705	132,203	126,522
112	U. CA, Riverside	75,821	83,580	94,455	111,936	112,468	110,627	122,221	124,820
113	KS State U.	85,580	91,790	94,030	106,804	112,733	119,306	123,398	123,746
114	WV U.	63,392	66,130	71,311	84,985	104,748	108,002	115,398	122,134
115	Woods Hole Oceanographic Institution	71,722	81,547	91,029	99,964	104,223	114,087	117,517	121,888
116	U. VT	64,049	63,391	75,597	88,602	104,994	114,120	115,693	121,841
117	Georgetown U.	111,426	133,211	99,228	105,668	117,713	126,320	123,938	118,558
118	U. NH	57,613	72,108	87,879	93,222	96,415	103,935	108,378	115,117
119	U. DE	73,521	74,711	77,491	85,157	100,706	109,985	110,339	114,985
120	Tulane U.	87,324	89,785	99,761	102,998	117,709	123,677	138,959	114,397
121	U. CA, Santa Cruz	52,902	56,212	64,253	70,967	78,448	94,297	105,617	114,126
122	George Washington U.	66,757	69,300	73,805	86,288	92,454	103,473	107,715	113,982
123	MT State U. Bozeman	55,475	65,324	69,593	78,211	91,503	97,696	109,465	112,428
124	U. Central FL	42,466	47,646	79,287	66,351	89,880	103,261	102,702	107,996
125	U. AR for Medical Sciences	44,066	49,074	51,921	45,046	63,677	74,063	91,516	107,871
126	Thomas Jefferson U.	78,410	89,626	88,936	102,974	109,083	112,078	107,388	106,986
127	ND State U. all campuses	44,696	50,063	64,882	72,105	91,812	102,115	103,011	103,778
128	OK State U. all campuses	83,108	88,285	90,311	94,987	103,079	103,915	99,436	100,323
129	U. AR main campus	61,585	70,817	78,303	83,063	82,277	88,918	98,138	99,271
130	U. NV, Reno	47,939	56,248	59,229	66,721	80,553	83,552	95,579	98,917
131	Drexel U.	22,397	24,876	27,698	44,465	69,548	76,120	88,049	96,687
132	U. MS all campuses	32,129 i	44,927	58,410 i	71,893 i	85,378	79,867	91,913	93,471
133	U. ME	41,452	54,821	64,070	62,149	68,923	81,216	75,066	93,153
134	U. WY	47,197	43,094	41,632	41,632 e	60,054	60,054 e	83,449	89,414
135	U. ID	62,531	61,347	67,496	76,758	85,213	93,246	91,009	86,863
136	Rush U.	60,957	68,189	70,219	79,394	89,196	89,254	83,693	83,194
137	Temple U.	53,940	52,466	60,182	63,850	71,327	76,055	83,062	79,736
138	U. of Notre Dame	30,483	34,524	46,096	52,371	59,803	74,255	71,266	78,553
139	NJ Institute of Technology	40,982	47,895	62,747	69,138	73,664	74,998	76,920	77,583
140	TX A&M U. System Health Science Ctr.	na	25,736	40,859	49,636	55,031	64,170	73,162	76,109
141	U. Houston	43,370	48,902	51,567	59,707	63,455	60,962	80,731	75,662
142	Southern IL U. Carbondale	33,169	36,354	43,207	53,604	53,018	53,953	57,434	74,520
143	NM Institute of Mining and Technology	26,061	23,636	28,392	36,309	37,186	38,476	56,134 i	73,792
144	San Diego State U.	45,579	55,002	58,332	64,302	67,053	66,710	73,887	73,777
145	U. RI	44,452	48,135	50,835	53,347	61,818	60,947	60,252	70,696
146	Rensselaer Polytechnic Institute	39,034	40,762	45,010	45,955	50,777	56,907	65,571	70,576
147	U. Dayton	36,937	39,345	41,343	46,554	52,943	63,734	67,445	69,080
148	Uniformed Serv. Health Sciences	22,898	23,987	23,247	28,630	30,604	89,999	78,694	67,716
149	Rice U.	41,069	41,840	42,675	48,169	52,367	60,872	63,102	66,564
150	Northeastern U.	30,209	35,340	34,467	38,540	42,931	47,283	63,514	66,495
151	FL International U.	25,061	34,649	44,291	47,654	52,175	63,545	76,678	65,805
152	U. MD Baltimore County	21,854	26,044	29,641	36,323	42,906	49,403	58,467	65,718
153	Medical C. GA	41,103	45,596	52,191	51,705	56,398	58,808	67,278	61,174
154	U. MD Biotechnology Institute	31,172	29,946	41,627	43,673	45,140	47,725	56,135	59,297
155	U. AL Huntsville, The	40,203	41,274	43,731	48,353	46,595	49,259	54,601	59,231

Appendix B: R&D Expenditures at Universities and Colleges, Ranked by FY 2006 R&D Expenditures: FY 1999–2006

		(Dollars in Thousands)							
Rank	Institution	1999	2000	2001	2002	2003	2004	2005	2006
156	TX Tech U.	58,488	66,263	69,918	82,785	92,515	57,592	56,623	58,591
157	U. OR	32,695	35,934	36,881	43,723	44,604	51,956	52,657	57,153
158	U. NV, Las Vegas	20,170	24,215	27,008	30,527	42,205	45,429	48,343	57,031
159	Brandeis U.	48,305	47,658	52,818	47,122	50,841	51,498	54,136	57,017
160	Naval Postgraduate School	34,095 e	40,827 i	47,559 i	54,291 i	61,025	56,184 i	51,343	56,780
161	U. ND all campuses	16,999	17,343	19,692	33,973	41,803	49,595	46,798	56,074
162	U. MT-Missoula, The	24,372	29,590	33,535	39,367	43,562	51,078	54,685	52,903
163	GA State U.	36,523	36,600	38,960	44,564	45,653	45,415	50,262	52,690
164	C. of William and Mary all campuses	31,322	33,299	35,829	39,858	43,974	49,420	50,146	52,025
165	George Mason U.	26,766	26,793	32,881	38,849	44,980	46,210	42,630	50,381
166	Old Dominion U.	23,030	25,058	24,659	29,223	30,324	34,819	47,006	49,966
167	St. Louis U. all campuses	27,817	31,002	32,442	35,444	41,189	41,189 e	47,356	48,133
168	Wright State U. all campuses	23,131	29,092	32,033	30,962	34,860	38,052	40,328	47,711
169	U. LA Lafayette	30,735	32,692	32,073	47,796	43,769	55,218	44,620	47,308
170	Charles R. Drew U. of Medicine and Science	24,484	31,045	36,717	48,839	49,888	51,994	43,231	47,188
171	U. TX Dallas	16,028	15,684	15,684 e	26,198	30,748	31,274	43,111	44,198
172	U. Memphis, The	24,280	27,381	29,445	33,625	38,728	44,120	49,961	43,715
173	MI Technological U.	28,074	27,204	29,613	30,005	30,264	35,670	40,188	43,081
174	U. MD Ctr. for Environmental Science	26,816	31,605	36,635	38,501	38,344	39,631	41,022	40,146
175	U. Southern MS	16,211	17,706	20,286	25,685	35,049	35,908	37,881	39,163
176	Desert Research Institute	23,376	25,691	29,697	29,465	31,757	34,783	34,570	38,511
177	U. PR Medical Sciences Campus	17,114	21,373	23,913	29,089	31,124	34,092	35,809	38,424
178	Jackson State U.	8,823	12,027	25,663	25,445	28,843	31,641	35,876	38,273
179	OH U. all campuses	21,437	23,767	27,146	36,601	37,527	38,704	43,229	38,000
180	Loyola U. Chicago	29,001	30,034	37,156	37,607	37,581	36,134	40,551	37,669
181	U. MO-Rolla	25,893	25,968	28,799	32,222	35,999	41,242	38,337	37,384
182	SUNY Upstate Medical U.	15,099	17,095	17,294	22,326	25,931	32,090	34,931	37,181
183	Howard U.	23,557	27,254	30,148	35,387	37,577	41,404	41,609	36,465
184	Syracuse U. all campuses	39,640	40,063	42,476	45,870	48,846	58,276	62,020	36,100
185	Boston C.	21,726	27,767	30,768	31,754	32,158	32,158 e	31,588	35,659
186	U. AL, The	28,909	31,847	33,133	37,130	34,187	35,132	34,531	35,129
187	San Jose State U.	21,005 e	21,005 e	22,709	25,003	28,323	29,268	32,886	34,687
188	NY Medical C.	20,436	23,348	24,283	25,222	30,492	33,521	32,460	34,397
189	FL A&M U.	21,622	21,612	23,865	31,147	23,503	31,408	26,400	34,293
190	U. WI Milwaukee	21,325	20,010	23,492	24,933	27,259	28,268	32,748	34,033
191	Lehigh U.	27,902	25,506	29,058	22,687	29,211	32,048	36,709	33,469
192	SD State U.	15,599	16,784	19,717	20,085	27,652	30,962	32,042	33,275
193	Eastern VA Medical School	24,096	23,299	26,250	28,572	32,801	33,798	33,721	33,013
194	Meharry Medical C.	9,460	9,460 e	14,984 i	20,508	25,427	27,507	29,105	32,878
195	Loma Linda U.	18,818	24,369	24,183 i	23,996	26,296	29,651	29,898	32,451
196	U. TX El Paso	21,961	20,877	21,889	23,684	27,185	25,440	26,825	32,161
197	Wichita State U.	14,555	16,213	16,142	18,842	22,401	29,948	32,726	31,873
198	CUNY Hunter C.	15,934	15,047	19,964	25,905	32,704	34,931	33,024	31,308
199	SUNY Health Science Ctr. Brooklyn	28,840	31,626	31,626 e	31,153 i	30,680 i	30,207 i	29,732	31,064
200	U. Toledo	11,819	13,694	16,278	24,825	24,123	27,708	32,351	30,493
201	U. TX San Antonio	7,780	10,292	11,331	11,115	13,654	15,738	22,429	30,259
202	SUNY Binghamton	17,998	18,661	18,992	21,343	23,090	25,405	25,769	29,635
203	U. TX Arlington	11,450	10,723	17,486	15,097	15,102	19,003	28,971	29,267
204	FL Atlantic U.	17,151	19,535	25,111	23,995	25,946	23,767	27,388	28,896
205	Portland State U.	13,940	16,494	16,838	17,683	21,433	21,433 e	28,940	28,763
206	CO School of Mines	21,715	21,795	23,654	26,515	29,162	27,087	26,499	28,729

Appendix B: R&D Expenditures at Universities and Colleges, Ranked by FY 2006 R&D Expenditures: FY 1999–2006

(Dollars in Thousands)									
Rank	Institution	1999	2000	2001	2002	2003	2004	2005	2006
207	Hampton U.	7,472	9,323	9,158	11,067	18,673	31,645	42,969	28,705
208	CUNY The City C.	15,888	17,059	17,099	17,103	17,712	25,947	27,471	28,593
209	U. Akron all campuses	16,279	19,495	22,266	28,080	27,953	27,488	26,888	28,440
210	Morehouse School of Medicine	13,622	16,889	19,670	23,956	27,154	33,317	30,652	28,378
211	U. MA Lowell	19,413	19,334	20,656	22,827	22,783	22,163	23,852	27,635
212	Northern AZ U.	11,857	12,570	14,657	17,263	17,446	19,967	22,870	27,632
213	San Francisco State U.	5,000 e	5,223 e	5,223 e	14	12,500	42,903	23,655	27,333
214	U. MO-Kansas City	14,331	19,647	18,795	24,060	31,104	31,968	30,780	26,016
215	Brigham Young U. all campuses	23,985	17,237	19,171	21,228	22,557	23,565	23,961	25,973
216	Stevens Institute of Technology	13,794	15,879	13,855	13,855 e	18,334 i	22,814	22,997	25,848
217	Creighton U.	16,015	15,841	17,674	18,982	24,116	25,451	27,022	25,615
218	U. North TX Health Science Ctr. Ft. Worth	9,689	10,131	11,035	12,893	15,388	18,520	22,325	25,124
219	Southern IL U. Edwardsville	1,316	1,344	1,270	14,043	17,100	18,973	20,883	23,737
220	NC Agricultural and Technical State U.	14,741	13,400	15,629	15,353	17,304	19,534	22,936	23,698
221	IL Institute of Technology	13,438	13,734	14,722	19,909	25,744	22,948	25,498	22,646
222	U. SD	5,762	4,742	5,546	8,368	11,148	15,523	18,681	22,613
223	Rochester Institute of Technology	9,340 e	4,755	11,416	13,500	17,197	19,423	21,068	22,107
224	TX Tech U. Health Science Ctr.	NA	NA	NA	NA	NA	19,827	18,697	22,013
225	U. PR Rio Piedras Campus	9,885	9,308	10,341	9,736	11,473	12,417	20,546	21,609
226	Medical U. OH	12,467	13,747	15,276	17,040	18,233	20,159	21,034	21,567
227	U. PR Mayaguez Campus	55,648	34,683	18,627	19,939	20,029	16,686	20,492	21,080
228	U. MA Boston	11,132	12,058	11,672	13,121	15,793	15,460	18,148	21,056
229	U. Southern ME	1,366	1,366 e	4,479 i	7,592 i	10,705 i	13,818 i	16,931 i	20,045
230	Mercer U. all campuses	17,250	18,138	15,337	12,998	14,996	18,437	20,042	19,529
231	U. South AL	11,990 e	9,865	9,865 e	17,692	19,371	20,096	19,431	19,308
232	Miami U. all campuses	10,964	10,674	12,804	13,279	13,727	15,377	18,026	19,229
233	U. MA Dartmouth	5,820	6,905	9,488	15,030	16,476	18,074	19,452	19,171
234	Air Force Institute of Technology	4,316	7,771	8,311	9,243	12,454	13,001	14,666	18,783
235	U. NC Charlotte	9,041	7,790	7,905	8,773	12,599	17,425	16,042	18,463
236	Marshall U.	66	6,231	7,218	11,285	15,070	20,221	22,321	18,385
237	Western MI U.	13,727	14,230	14,976	19,023	21,571	13,912	17,518	18,005
238	Catholic U. America, The	13,317	9,329	17,539	22,883	24,475	23,610	21,489	17,662
239	U. of the VI	3,310	3,310 e	8,645 i	13,981	15,762	17,874	16,735	17,495
240	ID State U.	5,642	8,899	8,847	10,119	12,243	14,385	19,700	16,754
241	Northern IL U.	6,455	7,431	9,028	10,366	12,368	11,687	11,239	16,627
242	Albany Medical C.	10,377	11,522	12,836	13,104	13,394	15,562	15,465	16,227
243	Clarkson U.	6,989	7,751	8,322	8,322 e	7,466	14,703	13,826	16,143
244	LA Tech U.	7,659 e	10,228	9,986	12,110	15,055	16,118	15,832	15,276
245	U. North TX	7,487	9,108	14,224	13,227	13,990	11,958	12,617	14,819
246	Cleveland State U.	11,893 e	10,214	12,986	13,855	14,112	16,888	15,884	14,496
247	Worcester Polytechnic Institute	9,618	10,315	9,348	10,493	12,357	14,045	14,679	14,483
248	Polytechnic U.	9,050	15,500	8,277	10,915	11,271 i	11,627	15,295	14,479
249	AL A&M U.	11,562	8,238	11,977 i	15,717	36,856	17,429	16,075	14,431
250	TN State U.	10,762	11,285	12,791	15,262	14,306	15,255	14,669	14,096
251	East Carolina U.	9,014	8,461	10,535	11,513	12,520	13,296	14,240	14,061
252	Embry-Riddle Aeronautical U.	2,647 e	2,700 e	7,711	5,102	6,641	8,558	13,325	13,957 i
253	U. NC Wilmington	7,647	7,859	10,307	14,568	12,762	14,381	20,617	13,609
254	Morgan State U.	1,066	4,371	2,390	1,674	7,493	8,580	9,544	13,523
255	TX A&M U. Kingsville	6,397	7,404	6,919	8,208	10,203	11,102	13,389	13,343
256	TX A&M U. Corpus Christi	ne	5,999	5,606	9,124	10,281	12,266	8,845	12,654

Appendix B: R&D Expenditures at Universities and Colleges, Ranked by FY 2006 R&D Expenditures: FY 1999–2006

(Dollars in Thousands)

Rank	Institution	1999	2000	2001	2002	2003	2004	2005	2006
257	SUNY C. of Environmental Science and Forestry	25,385	26,663	27,854	26,337	26,783	19,419 i	12,054	12,643 i
258	SD School of Mines and Technology	4,161	5,743	6,922	9,692	10,853	10,626	13,347	12,589
259	CA State Polytechnic U. San Luis Obispo	11,892	12,133	12,193	14,002	13,598	9,417	11,235	12,529
260	Southern Methodist U.	9,401	9,713	8,948	9,774	9,890	10,432	11,839	12,475
261	U. Tulsa	10,040	10,054	12,553	11,603	11,527	15,375	12,740	12,358
262	U. MO-St. Louis	10,294	9,898	10,084	11,519	12,819	12,429	12,056	11,713
263	Tuskegee U.	9,223	8,893	9,539	9,965	10,067	11,519	10,966	11,651
264	Prairie View A&M U.	10,157	9,464	11,297	10,444	11,193	10,989	11,810	11,444
265	Teachers C. Columbia U.	7,206	8,561	9,676	10,409	9,603	9,684	10,669	11,411
266	Clark Atlanta U.	19,467	16,891	17,173	17,194	12,760	13,576	12,790	11,155
267	CA State U. San Bernardino	3,301	1,797	1,906	3,740	7,576	8,755	8,905	11,120
268	Kent State U. all campuses	11,083	10,817	11,316	12,868	14,549	12,712	11,045	11,076
269	Rosalind Franklin U. of Medicine and Science	6,764	7,587	8,037	8,645	9,923	10,614	11,920	10,981
270	U. Denver	10,247	8,383	12,944	10,539	9,949	12,500	11,716	10,581
271	U.S. Air Force Academy	3,761	4,551	5,323	25,589	27,198	29,998	29,438	10,547
272	Marquette U.	6,469	7,653	7,236	9,807	11,385	9,652	10,338	10,445
273	CA State U. Long Beach	31,283	32,551	3,995	8,026	13,732	9,877	9,594	10,322
274	Bowling Green State U. all campuses	3,454	3,454 e	5,028	5,327	7,336	8,271	9,746	9,912
275	CA State U. Fresno	11,450	11,598	4,531	9,398	13,558	15,211	13,498	9,749
276	TN Technological U.	9,204	8,878	9,347	9,823	9,609	8,779	9,312	9,575
277	U. AR Little Rock	ne	3,400 e	2,088	2,088 e	24,284	4,127	4,345	9,331
278	Oakland U.	6,422	6,422 e	7,397	6,869	6,175	6,616	6,505	9,169
279	CA State U. Los Angeles	535	9,062	5,557	7,933	7,073	8,728	10,130	8,956
280	U. AK Anchorage all campuses	4,782	4,782 e	8,233 i	11,685 e	12,326	13,285	13,594	8,844
281	Universidad Central del Caribe	4,660	5,677	6,943	7,103	8,274	9,797	9,181	8,790
282	Western KY U.	3,287	3,770	4,165	5,281	4,263	5,729	6,607	8,701
283	Ball State U.	2,056	2,429	3,071	4,008	3,878	7,483	8,490	8,625
284	Duquesne U.	2,025	2,662	5,003	5,955	6,848	8,082	8,096	8,345
285	VA State U.	2,611	4,422	5,066	7,144	7,209	5,953	5,048	8,189
286	Stephen F. Austin State U.	4,892	5,289	4,994	5,582	4,954	3,663	4,144	8,171
287	Wesleyan U.	5,373	5,673	5,846	5,614	6,682	7,741	8,036	8,170
288	Tarleton State U.	3,905	3,872	6,607	7,871	8,534	7,194	8,512	8,069
289	East TN State U.	3,351	6,494	8,222	11,701	12,971	7,788	8,098	7,943
290	U. Baltimore	ne	ne	ne	ne	ne	ne	7,754	7,856
291	Boise State U.	3,501	3,480	6,153	6,446	7,583	9,126	9,162	7,848
292	U. HI Hilo	NA	NA	NA	10,841	5,317	4,978	9,596	7,843
293	FL Institute of Technology	5,830	6,058	6,195	6,669	8,004	7,801	7,539	7,684
294	U. GU	2,829	4,130	3,752	4,571	6,989	9,458	8,531 i	7,604
295	U. CA, Merced	na	na	na	na	na	na	4,468	7,527
296	CA State U. Northridge	3,230	6,190	6,190 e	10,619	11,638	10,305	8,767	7,490
297	CUNY Queens C.	3,083	3,827	4,595	6,718	6,430	6,819	6,876	7,432
298	Villanova U.	3,950	5,280	5,380 i	5,481 e	6,000 i	6,455 i	6,902 i	7,122 i
299	TX State U. San Marcos	3,597	4,507	8,884	8,109	7,621	9,130	7,261	7,034
300	DE State U.	2,765	3,415	2,494	3,162	3,944	4,678 i	5,412	7,016

e = estimated; data were not provided by institution, prior-year data used or current-year estimates were reported; i = data point imputed; na = not applicable; institution did not exist or did not exist as a separate entity; NA = not available; institution was not surveyed.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$709 million in total R&D expenditures.

NOTE: Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2006.

Appendix C: Federally Financed R&D Expenditures at Universities and Colleges, Ranked by FY 2006 Expenditures: FY 1999–2006

(Dollars in Thousands)

Rank	Institution	1999	2000	2001	2002	2003	2004	2005	2006
	All institutions	16,103,436	17,538,286	19,233,421	21,863,925	24,758,853	27,630,624	29,191,369	30,033,156
1	Johns Hopkins U., The ^a	770,580	793,266	879,741	1,022,510	1,106,971	1,229,426	1,277,292	1,307,453
2	U. WA	368,112	389,622	435,103	487,059	565,602	625,218	606,317	650,394
3	U. MI all campuses	334,226	364,033	396,117	444,255	516,818	521,339	554,516	565,739
4	Stanford U.	353,947	367,083	384,468	426,620	483,540	541,667	574,675	540,069
5	U. WI Madison	249,212	278,629	304,009	345,003	396,231	434,423	477,582	491,810
6	U. CA, Los Angeles	251,999	274,162	312,858	366,762	421,174	461,145	469,889	483,873
7	U. PA	279,013	312,434	351,996	397,587	415,631	435,343	465,284	478,773
8	MA Institute of Technology	308,921	306,668	304,319	330,409	356,206	427,552	457,235	476,362
9	U. CA, San Francisco	233,181	248,878	277,489	327,393	371,697	418,944	438,988	464,660
10	U. CA, San Diego	292,007	326,037	343,276	359,383	400,100	465,629	463,946	463,807
11	Columbia U. in the City of NY	240,158	283,163	317,928	356,749	385,529	406,576	453,188	451,187
12	U. CO all campuses	244,686 e	300,667 i	308,643	340,466	377,941	414,986	449,366	448,350
13	U. Pittsburgh all campuses	194,618	228,155	268,571	306,913	345,625	394,444	420,305	422,316
14	Duke U.	186,757	204,180	218,109	261,356	306,864	347,896	376,568	414,419
15	Washington U. St. Louis	218,598	254,148	284,928	303,441	357,364	371,043	400,699	408,402
16	Harvard U.	266,019	281,699	300,414	336,607	348,620	399,764	395,906	403,458
17	Cornell U. all campuses	234,792	229,872	240,466	270,578	320,868	339,107	365,694	390,043
18	PA State U. all campuses	199,105	226,074	245,951	284,706	301,094	347,996	358,569	367,215
19	Yale U.	213,404	232,019	250,702	274,304	296,713	330,837	332,702	348,500
20	U. Southern CA	199,619	210,872	246,207	266,645	300,195	312,589	330,126	333,378
21	U. NC Chapel Hill	182,935	194,794	221,615	254,571	280,678	304,204	320,294	329,215
22	U. MN all campuses	207,761	229,958	264,289	295,301	293,266	307,677	319,771	326,170
23	OH State U. all campuses	135,216	132,219	161,092	177,883	198,488	284,675	294,053	315,914
24	Case Western Reserve U.	140,178	150,586	158,852	181,888	205,452	195,525	212,485	306,980
25	U. AZ	178,126	187,161	199,484	211,772	259,074	283,956	292,811	301,619
26	Vanderbilt U.	116,887	129,986	146,230	172,858	221,979	261,484	281,694	300,423
27	U. AL Birmingham, The	165,223	175,309	194,625	216,221	245,217	261,664	288,434	292,962
28	Baylor C. of Medicine	141,111	193,249	234,394	259,475	302,764	312,669	300,638	287,679
29	U. Rochester	132,852	150,593	166,945	195,298	208,148	231,193	257,497	278,399
30	U. TX Austin	164,913	178,889	195,184	219,158	231,996	235,281	254,529	273,147
31	Scripps Research Institute, The	NA	NA	NA	NA	NA	236,989	272,969	268,533
32	Emory U.	132,816	144,914	170,317	186,083	228,255	243,248	266,868	267,894
33	U. IL Urbana-Champaign	185,767	193,490	195,316	214,323	266,487	275,896	289,985	264,645
34	U. CA, Berkeley	191,025	208,338	208,080	217,297	238,206	268,830	290,960	261,718
35	GA Institute of Technology all campuses	112,861	126,164	143,836	165,680	203,582	237,483	245,130	257,751
36	U. Chicago	135,720	140,872	155,566	183,830	201,129	229,102	245,679	253,471
37	Northwestern U.	132,647	150,238	158,129	178,607	200,316	230,593	244,113	249,980
38	CA Institute of Technology	195,303	196,877	193,554	199,944	219,097	244,187	249,371	248,591
39	U. FL	122,296	120,374	135,421	167,108	194,958	221,898	231,699	248,322
40	U. CA, Davis	124,463	141,740	154,937	176,644	208,327	221,937	240,003	248,190
41	Boston U.	123,390	133,730	150,771	171,438	203,947	219,054	228,842	238,560
42	Mt. Sinai School of Medicine	84,624	98,188	109,344	125,979	152,719	185,249	191,326	224,911
43	OR Health & Science U.	95,655 i	109,165	111,671	130,231	164,221	206,219	217,145	223,204
44	U. IA	122,638	140,764	155,249	180,743	197,260	209,865	216,354	216,521
45	U. MD College Park	145,081	136,605	145,515	194,095	183,206	180,943	196,008	209,764
46	TX A&M U. all campuses	149,151	149,639	149,382	163,488	177,119	173,705	212,923	206,242
47	U. IL Chicago	86,406	101,943	125,109	143,183	168,063	192,825	198,163	203,875

Appendix C: Federally Financed R&D Expenditures at Universities and Colleges, Ranked by FY 2006 Expenditures: FY 1999–2006

(Dollars in Thousands)

Rank	Institution	1999	2000	2001	2002	2003	2004	2005	2006
48	U. VA all campuses	107,856	115,684	122,868	152,358	173,442	188,121	198,606	203,778
49	U. HI Manoa	93,418	95,419	97,716	110,882	143,580	187,035	190,137	202,419
50	U. Cincinnati all campuses	100,325	110,296	128,049	150,166	185,261	194,965	202,654	201,742
51	U. TX Southwestern Medical Ctr. Dallas	101,996	109,165	131,820	155,258	177,196	200,888	202,057	196,621
52	NY U.	111,124	117,163	129,897	149,995	166,033	181,441	191,782	189,276
53	U. MD Baltimore	84,516	91,212	99,091	117,017	126,156	141,221	129,270	186,160
54	Carnegie Mellon U.	90,408	91,191	97,463	137,967	157,583	172,858	173,902	185,389
55	CO State U.	91,943	101,429	101,308	112,650	117,151	162,074	154,245	182,648
56	U. TX M. D. Anderson Cancer Ctr.	69,413	81,872	94,053	117,633	122,869	150,529	160,953	182,028
57	U. UT	111,716	124,344	127,253	142,625	152,112	161,119	168,652	174,888
58	IN U. all campuses	102,262	107,577	116,781	132,759	153,625	166,913	171,528	170,635
59	U. CA, Irvine	75,505	88,274	101,735	115,548	133,873	150,995	161,524	169,983
60	MI State U.	89,835	97,112	112,359	122,595	133,820	143,473	156,461	169,116
61	Purdue U. all campuses	95,708	92,010	98,151	107,477	129,199	144,090	150,351	157,438
62	Yeshiva U.	89,680	101,631	107,800	114,268	128,894	151,520	160,894	153,785
63	U. South FL	42,005	50,557	58,826	84,108	106,102	126,906	142,580	153,737
64	SUNY Buffalo all campuses	85,490	96,410	96,595	121,376	129,794	143,865	151,890	153,152
65	U. KY all campuses	66,184	73,858	86,239	100,426	120,003	129,887	142,794	151,238
66	U. Miami	101,883	106,633	111,803	121,171	130,863	141,943	156,059	150,408
67	U. of Medicine and Dentistry NJ	61,730	75,318	86,054	90,235	105,495	121,812	143,239	140,923
68	Dartmouth C.	46,741	56,369	69,844	87,255	106,034	123,109	122,329	140,430
69	Wake Forest U.	60,293	65,585	78,021	91,738	108,467	120,075	141,685	139,549
70	U. NE all campuses	56,339 i	60,161	69,232	82,728	96,627	115,833	129,216	139,113
71	U. MA Worcester	55,516	64,212	79,453	93,992	109,082	126,162	130,680	136,141
72	NC State U.	80,518	90,725	95,875	91,981	96,157	103,586	109,128	131,262
73	Rutgers, The State U. NJ all campuses	75,664	79,711	77,156	91,205	110,041	128,655	137,609	129,456
74	U. NM all campuses	84,976	100,442	109,505	104,252	106,541	112,299	129,557	127,907
75	LA State U. all campuses	75,831	89,007	94,625	97,928	99,143	112,169	128,324	126,545
76	U. CT all campuses	55,496	66,144	70,013	93,326	111,654	127,609	134,347	124,837
77	U. TX Health Science Ctr. Houston	71,288	79,665	88,545	98,676	107,481	106,737	112,509	122,870
78	U. TX Medical Branch	55,061	61,357	64,682	78,100	93,039	102,491	117,235	120,408
79	VA Polytechnic Institute and State U.	75,386	71,127	77,384	82,976	98,143	95,669	109,842	119,994
80	Wayne State U.	57,610	64,320	79,448	95,910	102,963	114,700	120,581	118,042
81	Princeton U.	72,974	74,681	78,620	97,724	104,011	111,435	120,042	117,845
82	OR State U.	81,649	80,398	84,854	91,683	100,499	104,276	109,030	116,586
83	U. KS all campuses	57,272	68,950	74,494	82,663	92,888	101,920	110,768	115,522
84	U. TN all campuses	70,187	72,059	78,611	88,344	100,486	109,357	121,004	113,559
85	SUNY Stony Brook all campuses	93,937	96,641	93,265	108,122	112,452	123,124	125,781	112,973
86	FL State U.	55,666	56,830	57,075	70,456	87,985	102,967	105,747	110,358
87	AZ State U. main campus	53,905	49,935	56,616	64,407	71,741	79,877	94,545	109,893
88	U. CA, Santa Barbara	74,026	80,754	76,828	78,370	88,422	92,248	103,955	106,169
89	IA State U.	54,179	59,976	62,024	71,419	82,297	92,235	98,005	104,553
90	Medical U. SC	30,997	41,432	60,543	75,803	92,893	103,494	108,196	104,057
91	SUNY Albany	46,242	62,059	46,671	40,497	76,038	94,712	103,941	103,835
92	U. MO-Columbia	53,875	65,420	68,435	77,742	84,211	90,304	96,038	101,732

Appendix C: Federally Financed R&D Expenditures at Universities and Colleges, Ranked by FY 2006 Expenditures: FY 1999–2006

(Dollars in Thousands)

Rank	Institution	1999	2000	2001	2002	2003	2004	2005	2006
93	Woods Hole Oceanographic Institution	59,534	67,036	75,670	78,458	84,410	100,456	100,747	101,631
94	Medical C. WI	47,087	55,034	64,003	76,241	83,026	100,547	102,859	100,128
95	U. AK Fairbanks all campuses	34,647	46,605	55,287	66,169	72,607	75,269	89,637	98,330
96	VA Commonwealth U.	48,175	52,137	57,315	65,028	81,201	89,066	97,322	97,576
97	Brown U.	45,276	49,943	58,367	68,215	81,445	84,126	90,857	96,922
98	UT State U.	54,433	57,378	74,251	79,393	95,494	107,945	92,660	96,242
99	Tufts U.	62,836	64,677	71,669	73,236	78,942	92,997	98,200	95,964
100	U. TX Health Science Ctr. San Antonio	56,904	65,251	71,153	83,761	86,683	89,662	95,125	95,110
101	MS State U.	46,528	53,808	65,493	77,521	79,837	82,205	84,465	94,073
102	Rockefeller U.	45,010	45,211	55,362	67,559	75,303	82,535	85,552	93,742
103	U. GA	56,080	62,678	66,913	78,086	93,884	96,348	102,966	92,652
104	Georgetown U.	83,972	98,836	93,626	75,342	88,463	95,852	100,328	92,268
105	U. OK all campuses	57,589	60,542	60,264	69,388	75,318	81,048	87,776	90,880
106	U. SC all campuses	48,490	51,872	51,983	53,403	63,044	71,856	65,095	89,294
107	U. NH	30,586	38,921	45,223	50,829	59,463	67,917	78,653	86,416
108	Tulane U.	50,779	52,080	55,669	64,824	82,118	87,917	94,628	84,052
109	Thomas Jefferson U.	56,369	67,448	64,881	79,217	85,348	92,296	86,171	82,551
110	U. VT	36,085	39,861	48,810	58,280	70,832	79,015	79,879	82,519
111	WA State U.	44,610	48,441	48,660	61,138	70,653	74,944	80,222	81,324
112	U. DE	34,628	37,716	41,830	48,183	69,493	76,583	74,721	79,640
113	MT State U. Bozeman	26,231	30,564	34,857	39,986	53,283	58,874	71,604	75,362
114	George Washington U.	49,944	49,627	51,757	58,729	68,959	78,192	78,779	75,209
115	U. Louisville	15,536	17,713	25,116	38,978	39,924	54,476	67,104	70,481
116	U. MA Amherst	39,877	44,712	49,576	54,770	60,839	65,452	66,921	69,642
117	Drexel U.	12,914	14,292	20,159	30,232	49,271	54,963	62,606	68,499
118	U. MS all campuses	19,053 i	28,107	39,451 i	50,795 i	62,140	59,787	67,603	67,717
119	U. CA, Santa Cruz	25,084	25,959	29,201	32,901	38,213	53,196	62,301	66,390
120	U. AR for Medical Sciences	26,392	29,962	34,219	27,491	41,681	53,249	59,053	66,127
121	U. NV, Reno	24,587	26,267	31,386	39,958	47,756	50,787	60,329	64,476
122	WV U.	26,264	28,013	29,440	49,394	60,586	60,819	62,489	63,764
123	U. CA, Riverside	19,994	21,085	25,713	32,305	40,409	40,981	52,919	58,023
124	U. Dayton	30,755	31,717	34,102	40,191	47,327	56,647	58,782	56,779
125	Clemson U.	27,064	31,304	48,560	47,174	62,552	61,065	56,829	56,268
126	NM State U. all campuses	56,875	57,073	61,124	70,314	75,368	76,396	91,247	55,801
127	U. of Notre Dame	23,614	27,362	29,801	33,285	41,220	48,650	51,072	55,710
128	Naval Postgraduate School	33,308 e	39,596 i	45,884 i	52,172 i	58,463	50,771 i	43,079	54,528
129	Rice U.	35,012	35,144	35,682	39,739	43,706	51,157	54,735	53,880
130	KS State U.	28,102	31,185	33,998	43,988	53,313	56,088	58,821	52,649
131	Temple U.	29,734	38,213	41,643	44,577	51,309	50,456	53,987	50,904
132	NM Institute of Mining and Technology	10,719	8,652	13,255	18,864	15,434	13,853	30,877 i	47,901
133	U. ID	24,263	23,014	26,548	33,465	42,861	48,565	47,212	47,018
134	U. RI	36,207	38,538	43,161	45,453	51,942	48,590	42,132	46,898
135	U. OR	27,336	30,793	32,232	37,177	36,127	43,634	43,564	46,583
136	FL International U.	15,757	20,296	23,940	32,057	40,860	47,913	51,328	45,894
137	Auburn U. all campuses	27,058	31,515	40,097	42,432	45,374	49,565	51,319	45,540
138	ND State U. all campuses	12,308	15,463	15,207	21,414	37,940	45,375	46,060	45,418
139	St. Louis U. all campuses	23,722	26,453	28,117	31,215	36,989	36,989 e	44,757	45,183
140	Rush U.	31,119	32,573	37,301	44,756	49,834	51,706	49,150	45,044
141	U. MD Baltimore County	15,624	20,244	23,695	29,376	34,164	37,548	43,377	44,830

Appendix C: Federally Financed R&D Expenditures at Universities and Colleges, Ranked by FY 2006 Expenditures: FY 1999–2006

(Dollars in Thousands)

Rank	Institution	1999	2000	2001	2002	2003	2004	2005	2006
142	Rensselaer Polytechnic Institute	22,803	25,555	25,894	26,490	32,295	36,651	42,338	44,690
143	U. AL Huntsville, The	25,166	25,939	30,625	35,660	35,558	39,607	42,358	44,636
144	Charles R. Drew U. of Medicine and Science	22,212	21,969	27,415	39,259	39,407	40,430	41,207	44,394
145	U. NV, Las Vegas	10,248	13,815	15,681	22,367	32,511	28,013	35,942	42,772
146	Medical C. GA	13,991	15,210	21,116	23,317	28,280	35,841	41,910	41,555
147	U. ME	19,163	24,412	23,873	23,732	28,901	36,513	28,951	41,394
148	Brandeis U.	29,423	26,444	30,031	29,006	33,722	38,041	39,788	41,184
149	Uniformed Services U. of the Health Sciences	9,696	11,023	10,105	10,294	9,527	62,408	50,016	39,461
150	U. ND all campuses	13,615	13,880	15,743	25,004	28,336	36,349	32,092	38,848
151	U. Houston	20,443	21,365	21,876	31,455	32,556	34,468	37,262	38,559
152	U. Central FL	16,048	13,801	22,342	29,929	47,749	44,020	40,013	37,974
153	OK State U. all campuses	23,179	24,770	25,636	31,100	37,748	43,345	36,637	37,943
154	Northeastern U.	22,776	26,916	23,532	24,295	26,895	30,659	36,524	36,071
155	George Mason U.	19,492	20,669	25,992	31,890	38,510	39,758	36,475	35,911
156	NJ Institute of Technology	21,127	17,381	23,274	27,550	30,535	30,995	35,716	35,489
157	San Diego State U.	19,724	22,802	23,621	25,223	28,084	30,092	35,328	35,351
158	TX A&M U. System Health Science Ctr.	na	14,321	18,384	22,417	26,729	30,283	32,949	35,214
159	Howard U.	21,658	25,292	27,848	33,949	36,137	40,086	40,020	34,959
160	U. Southern MS	14,124	15,084	18,061	22,398	31,653	32,075	34,941	34,577
161	U. MT-Missoula, The	14,627	18,378	19,194	22,612	27,220	34,478	36,433	33,039
162	U. MD Biotechnology Institute	13,911	11,157	16,742	16,701	19,989	24,436	31,276	32,005
163	U. AR main campus	15,851	20,778	23,172	27,588	27,071	31,088	33,496	31,926
164	U. PR Medical Sciences Campus	13,971	16,657	19,433	23,931	25,845	28,063	29,863	31,199
165	Meharry Medical C.	9,192	9,192 e	14,822 i	20,453	24,195	26,159	27,408	30,914
166	Jackson State U.	7,925	10,690	22,750	21,721	25,607	28,806	30,472	30,783
167	Desert Research Institute	16,552	19,923	22,018	22,760	23,265	26,235	28,655	30,407
168	C. of William and Mary all campuses	11,892	13,031	15,288	18,007	21,992	26,049	26,898	29,121
169	Loma Linda U.	12,217	18,811	19,462 i	20,114	22,675	26,631	26,855	28,788
170	Hampton U.	7,168	8,994	8,377	10,058	18,417	31,443	42,792	28,584
171	Old Dominion U.	13,706	14,908	15,280	17,170	18,882	21,377	24,463	27,506
172	SUNY Upstate Medical U.	7,889	8,461	8,815	13,404	16,652	22,650	23,275	27,247
173	NY Medical C.	14,029	17,975	18,344	19,318	23,387	25,103	25,242	26,579
174	U. WY	19,109	16,556	20,017	20,017 e	23,186	23,186 e	29,351	25,844
175	Loyola U. Chicago	17,588	20,695	26,474	27,678	28,107	29,150	30,584	25,420
176	Syracuse U. all campuses	30,050	29,620	30,036	32,704	34,559	43,162	46,945	25,299
177	SUNY Health Science Ctr. Brooklyn	21,053	22,860	22,860 e	23,011 i	23,162 i	23,313 i	23,466	25,184
178	Morehouse School of Medicine	12,948	15,419	18,127	21,919	24,382	23,331	24,213	25,156
179	GA State U.	14,310	12,090	13,575	18,967	22,218	25,845	25,204	24,968
180	FL A&M U.	20,693	16,278	22,477	21,592	18,273	24,994	22,378	24,902
181	San Jose State U.	11,825 e	11,825 e	14,301	15,777	18,935	20,363	21,160	23,197
182	U. AL, The	17,601	19,486	22,183	26,900	26,241	25,329	24,393	22,847
183	Stevens Institute of Technology	7,084	8,785	8,094	8,094 e	13,783 i	19,473	18,626	22,501
184	Wright State U. all campuses	12,365	12,543	15,417	16,070	18,733	20,599	20,527	22,430

Appendix C: Federally Financed R&D Expenditures at Universities and Colleges, Ranked by FY 2006 Expenditures: FY 1999–2006

(Dollars in Thousands)

Rank	Institution	1999	2000	2001	2002	2003	2004	2005	2006
185	U. MO-Rolla	8,731	9,804	11,929	15,749	18,142	20,218	21,772	22,351
186	TX Tech U.	20,242	21,480	22,967	28,202	31,776	23,181	22,071	22,278
187	CUNY The City C.	12,393	13,059	13,022	13,319	13,456	19,711	22,289	21,408
188	CO School of Mines	10,704	11,995	12,314	13,230	16,314	16,550	15,501	20,543
189	U. TX San Antonio	5,463	7,441	8,012	7,111	9,982	11,644	15,924	20,277
190	Southern IL U. Carbondale	7,660	10,130	10,868	10,789	12,078	15,557	16,975	20,108
191	U. TX Dallas	7,700	7,049	7,049 e	11,624	14,530	15,733	19,933	19,954
192	FL Atlantic U.	11,036	12,359	14,099	15,566	17,517	14,662	15,956	19,952
193	OH U. all campuses	10,544	11,695	12,898	17,677	20,406	20,831	20,736	19,573
194	Eastern VA Medical School	11,354	12,114	11,389	13,077	15,431	17,530	19,969	19,399
195	U. TX El Paso	18,292	16,416	16,167	16,457	18,116	16,900	15,378	19,331
196	U. North TX Health Science Ctr. Ft. Worth	5,370	5,799	6,562	7,770	9,927	13,259	17,037	19,183
197	IL Institute of Technology	9,777	10,926	10,917	11,277	13,900	14,903	16,493	19,121
198	U. TX Arlington	6,089	5,106	9,413	7,848	7,884	10,498	17,654	19,006
199	Portland State U.	9,313	11,217	11,341	11,914	13,276	13,276 e	18,580	18,797
200	MI Technological U.	16,107	16,650	17,620	17,973	17,667	18,735	19,760	18,757
201	U. MA Lowell	10,354	9,905	11,196	14,932	15,821	16,655	17,608	18,741
202	CUNY Hunter C.	7,526	8,650	10,922	14,573	17,047	18,836	18,544	18,472
203	Boston C.	14,492	16,673	20,123	22,827	22,907	22,907 e	17,801	18,344
204	Lehigh U.	13,161	12,726	13,961	13,519	16,215	19,400	21,061	18,248
205	Brigham Young U. all campuses	11,414	10,378	11,659	12,900	16,564	17,129	16,878	17,309
206	U. SD	3,373	2,084	3,534	5,830	8,308	12,849	15,448	17,308
207	San Francisco State U.	3,630 e	4,561 e	4,561 e	13	6,089	37,056	12,457	17,255
208	U. PR Rio Piedras Campus	5,654	5,620	6,013	4,971	6,760	8,093	14,301	16,881
209	U. Toledo	5,682	6,312	6,701	8,996	10,928	13,229	15,521	16,534
210	Wichita State U.	3,260	5,228	5,726	6,687	10,619	11,796	9,589	16,302
211	U. MO-Kansas City	7,206	7,490	8,176	10,795	14,232	15,696	16,960	15,965
212	U. Memphis, The	6,364	11,177	11,012	14,072	14,985	14,078	15,125	15,964
213	NC Agricultural and Technical State U.	12,454	11,187	11,937	11,953	12,226	13,487	16,348	15,885
214	U. WI Milwaukee	9,190	8,425	11,089	11,461	13,704	13,670	15,893	15,867
215	Marshall U.	66	5,618	5,980	9,502	12,802	17,104	18,660	15,360
216	U. South AL	9,451 e	8,276	8,276 e	15,922	17,638	17,832	16,538	15,147
217	Medical U. OH	9,219	9,944	11,362	12,006	14,146	14,591	14,756	14,607
218	Rochester Institute of Technology	2,690	2,664	5,612	7,868	11,630	12,415	11,620	14,581
219	Northern AZ U.	7,111	7,842	9,616	10,873	10,900	12,754	14,547	14,305
220	Catholic U. America, The	11,064	7,680	13,308	17,925	18,864	18,927	16,252	13,264
221	U. MD Ctr. for Environmental Science	8,116	10,805	12,105	13,080	12,654	13,824	13,853	12,860
222	SD State U.	6,086	7,448	8,456	9,115	11,441	13,447	13,914	12,788
223	U. of the VI	1,957	1,957 e	6,288 i	10,620	10,772	11,598	12,213	12,518
224	SUNY Binghamton	5,761	6,319	6,392	8,959	8,981	10,414	10,494	12,213
225	Morgan State U.	1,066	4,371	2,390	1,674	6,232	7,227	8,126	12,199
226	Mercer U. all campuses	12,657	11,350	9,076	8,607	8,018	9,613	11,235	11,741
227	Northern IL U.	3,727	3,603	4,264	4,980	6,892	6,824	7,897	11,696
228	U. Southern ME	123	123 e	2,046 i	3,969 i	5,892 i	7,815 i	9,738 i	11,662
229	ID State U.	1,258	3,723	3,837	4,738	6,746	8,416	12,087	11,661
230	U. LA Lafayette	9,430	12,164	12,130	12,925	14,455	15,850	16,159	11,596
231	U. Akron all campuses	7,140	7,081	8,672	9,537	9,348	10,284	10,246	11,433

Appendix C: Federally Financed R&D Expenditures at Universities and Colleges, Ranked by FY 2006 Expenditures: FY 1999–2006

(Dollars in Thousands)

Rank	Institution	1999	2000	2001	2002	2003	2004	2005	2006
232	Western MI U.	4,165	4,584	6,192	9,913	12,131	8,313	11,987	11,214
233	Albany Medical C.	7,437	7,691	8,562	8,901	9,677	11,849	11,525	11,152
234	U. NC Charlotte	4,780	5,380	5,145	5,850	7,981	13,816	10,362	10,792
235	East Carolina U.	4,832	4,388	5,188	6,030	7,565	9,399	10,967	10,657
236	U. PR Mayaguez Campus	23,784	11,837	9,015	8,865	9,596	7,539	10,786	10,645
237	Creighton U.	4,929	5,541	7,275	6,594	9,413	13,745	12,683	10,505
238	TN State U.	8,522	8,873	10,210	11,218	10,280	11,277	10,446	10,216
239	Worcester Polytechnic Institute	4,292	4,219	4,506	5,013	5,966	8,489	9,424	10,193
240	Clark Atlanta U.	12,116	16,170	14,354	15,325	12,367	13,075	11,346	10,008
241	U. NC Wilmington	4,431	5,336	7,242	9,950	8,957	9,951	10,665	9,884
242	SD School of Mines and Technology	3,300	4,127	4,417	6,950	8,222	8,366	10,752	9,834
243	TX Tech U. Health Science Ctr.	NA	NA	NA	NA	NA	7,604	6,730	9,713
244	U.S. Air Force Academy	3,699	4,505	5,009	8,163	12,599	15,739	15,165	9,678
245	U. MA Dartmouth	3,983	3,228	4,928	7,142	8,718	9,199	9,852	9,516
246	Rosalind Franklin U. of Medicine and Science	4,860	5,117	6,256	5,638	6,783	7,843	9,974	9,507
247	Southern Methodist U.	6,387	6,302	5,587	6,026	5,940	6,752	8,415	9,303
248	Prairie View A&M U.	8,675	7,679	7,094	7,712	7,886	7,965	8,464	9,067
249	Tuskegee U.	6,942	6,694	7,259	7,703	7,660	8,904	8,478	8,971
250	CA State U. Los Angeles	463	8,344	5,365	7,728	6,882	8,094	9,797	8,672
251	U. MA Boston	2,951	3,378	2,546	4,837	5,579	5,412	6,326	8,610
252	U. Denver	9,081	7,439	9,248	8,386	8,268	9,839	9,017	8,543
253	CA State U. Long Beach	11,929	12,964	2,910	4,944	12,126	8,351	8,577	8,368
254	U. North TX	2,617	3,618	5,401	6,015	6,320	5,499	7,003	8,343
255	Clarkson U.	3,694	3,837	4,286	4,286 e	4,833	6,434	6,890	8,280
256	Universidad Central del Caribe	4,345	5,347	6,622	6,470	7,183	8,498	8,543	8,206
257	Kent State U. all campuses	8,212	7,736	8,158	9,427	9,278	9,093	7,619	8,198
258	SUNY C. of Environmental Science and Forestry	3,874	4,332	4,355	4,630	5,177	6,499 i	7,821	8,059 i
259	U. Tulsa	5,272	5,498	7,341	6,806	8,439	11,240	8,969	7,964
260	Miami U. all campuses	3,302	2,674	3,324	4,021	4,312	5,132	8,014	7,874
261	TX A&M U. Corpus Christi	ne	1,363	2,357	3,127	4,581	5,685	4,572	7,798
262	U. HI Hilo	NA	NA	NA	8,499	5,082	4,217	8,998	7,678
263	Marquette U.	3,416	3,085	3,309	3,565	4,409	6,046	6,979	7,566
264	AL A&M U.	8,558	7,056	8,883 i	10,710	30,343	12,023	12,005	7,537
265	Embry-Riddle Aeronautical U.	1,432 e	1,551 e	6,987	4,174	3,323	5,179	6,642	7,518 i
266	Polytechnic U.	4,595	8,200	4,063	4,918	4,789 i	4,660	8,623	7,486
267	Boise State U.	2,595	2,151	3,962	4,173	6,321	7,642	8,447	7,448
268	U. GU	2,242	3,165	3,355	4,183	5,818	9,205	8,265 i	7,324
269	Western KY U.	2,287	2,711	3,294	3,493	3,125	4,400	4,915	7,079
270	Teachers C. Columbia U.	4,119	5,613	5,617	5,939	5,572	6,256	6,187	6,770
271	NC Central U.	777 e	1,608 i	2,439 i	3,270 i	4,101 i	4,932 i	5,763 i	6,597
272	DE State U.	2,055	3,052	2,222	2,819	3,636	4,342 i	5,048	6,506
273	U.S. Naval Academy	2,234	2,770	3,140	2,324	3,169	5,341	5,987	6,487
274	CA State Polytechnic U. San Luis Obispo	7,673	7,605	6,153	5,968	3,820	2,616	5,743	6,461

Appendix C: Federally Financed R&D Expenditures at Universities and Colleges, Ranked by FY 2006 Expenditures: FY 1999–2006

(Dollars in Thousands)

Rank	Institution	1999	2000	2001	2002	2003	2004	2005	2006
275	CUNY Queens C.	1,884	2,604	3,484	5,516	5,062	5,820	5,443	6,422
276	U. AK Anchorage all campuses	2,537	2,537 e	3,390 i	4,244 e	5,316	6,721	7,470	6,333
277	Oakland U.	3,033	3,033 e	5,318	4,903	4,470	5,559	5,599	6,205
278	FL Institute of Technology	2,735	2,980	2,614	3,646	5,204	5,575	5,170	6,138
279	Fisk U.	2,846	2,652	2,577	3,030	3,000	5,000	6,000	6,000
280	VA State U.	2,061	3,602	4,246	6,895	6,964	5,655	2,668	5,813
281	LA Tech U.	2,287 e	2,635	2,242	3,487	6,113	4,718	5,336	5,769
282	Alcorn State U.	5,223	8,034	7,370	5,809	7,582	7,622	5,396	5,706
283	Tarleton State U.	1,623	1,426	4,094	5,216	5,698	5,208	6,386	5,488
284	Bowling Green State U. all campuses	1,847	1,847 e	2,395	2,829	4,378	5,318	6,418	5,408
285	Morehouse C.	1,843	1,843 e	2,113 i	2,383 i	2,653 i	2,923 i	3,196	5,378
286	CA State U. San Bernardino	697	880	676	1,399	4,858	5,127	5,775	5,367
287	Air Force Institute of Technology	1,540	5,371	1,671	2,609	6,418	4,664	4,934	5,212
288	U. NC Greensboro	1,535	1,535 e	2,803	3,340	2,704	3,267	3,876	5,211
289	CA State U. Northridge	2,324	3,182	3,182 e	6,786	6,460	6,521	5,719	5,200
290	Cleveland State U.	3,655 e	3,318	3,986	4,649	3,611	6,380	7,206	5,159
291	Ball State U.	835	873	1,177	1,590	1,944	3,441	5,260	5,119
292	U. MO-St. Louis	4,841	4,523	4,321	4,755	4,978	4,618	4,470	5,046
293	MT Tech of the U. MT	3,014	2,744	2,617	2,977	4,488	4,059	4,315	5,040
294	Villanova U.	3,470	4,035	4,293 i	4,551 e	4,229 i	4,669 i	4,921 i	5,039 i
295	Ponce School of Medicine	2,960	3,257	3,736	3,720	6,270	9,179	6,715	5,022
296	New School, The	1,069	873	1,083	1,083 e	741	2,330	2,960	4,854
297	Wesleyan U.	3,640	4,058	3,893	3,734	4,424	5,388	5,180	4,744
298	East TN State U.	1,400	2,768	3,572	3,908	4,642	4,412	5,015	4,713
299	TX A&M U. Kingsville	1,771	2,179	1,828	1,956	2,766	3,832	4,972	4,625
300	Norfolk State U.	2,970	3,273	3,952	4,902	4,404	6,054	6,055	4,621

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

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$672 million in federally financed R&D expenditures.

NOTE: Tied institutions are ranked alphabetically.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2006.

Appendix D: R&D Expenditures at Public Universities and Colleges, Ranked by all R&D Expenditures for the First 150 Institutions, Ranked by Source of Funds: FY 2006

(Dollars in Thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
	All institutions	32,356,705	18,464,218	2,712,609	1,663,158	7,435,788	2,080,932
1	U. WI Madison	831,895	491,810	31,181	20,310	223,832	64,762
2	U. CA, Los Angeles	811,493	483,873	14,984	24,480	162,219	125,937
3	U. MI all campuses	800,488	565,739	9,522	32,275	153,410	39,542
4	U. CA, San Francisco	796,149	464,660	26,804	35,621	129,527	139,537
5	U. WA	778,148	650,394	8,969	56,765	43,388	18,632
6	U. CA, San Diego	754,766	463,807	25,758	39,825	124,987	100,389
7	OH State U. all campuses	652,329	315,914	97,823	106,252	103,381	28,959
8	PA State U. all campuses	644,182	367,215	69,552	89,170	117,119	1,126
9	U. MN all campuses	594,877	326,170	52,982	26,241	107,781	81,703
10	U. CA, Davis	573,002	248,190	44,982	26,221	192,843	60,766
11	U. FL	565,491	248,322	90,945	32,942	164,085	29,197
12	U. CA, Berkeley	546,035	261,718	36,418	24,744	146,469	76,686
13	U. AZ	535,847	301,619	10,016	32,576	143,701	47,935
14	U. Pittsburgh all campuses	530,162	422,316	13,415	8,670	61,815	23,946
15	U. CO all campuses	512,794	448,350	2,255	11,491	28,751	21,947
16	TX A&M U. all campuses	492,955	206,242	115,623	33,613	127,042	10,435
17	U. IL Urbana-Champaign	476,198	264,645	35,289	11,516	150,474	14,274
18	U. TX M. D. Anderson Cancer Ctr.	457,696	182,028	121,682	28,020	76,287	49,679
19	U. NC Chapel Hill	443,790	329,215	17,996	7,391	89,188	0
20	GA Institute of Technology all campuses	440,898	257,751	12,323	37,279	128,676	4,869
21	U. TX Austin	431,398	273,147	24,087	32,637	78,412	23,115
22	U. MD Baltimore	405,260	186,160	27,634	33,772	111,416	46,278
23	Purdue U. all campuses	372,958	157,438	53,485	45,549	114,647	1,839
24	MI State U.	358,097	169,116	48,665	11,699	116,006	12,611
25	IN U. all campuses	355,004	170,635	5,060	6,219	120,465	52,625
26	U. MD College Park	354,244	209,764	17,140	10,613	109,817	6,910
27	U. IA	346,357	216,521	9,851	18,893	91,020	10,072
28	LA State U. all campuses	343,775	126,545	85,139	15,724	90,422	25,945
29	U. NE all campuses	333,243	139,113	7,288	14,161	148,575	24,106
30	U. TX Southwestern Medical Ctr. Dallas	333,237	196,621	33,940	15,073	13,748	73,855
31	U. IL Chicago	332,176	203,875	6,462	8,604	90,951	22,284
32	U. AL Birmingham, The	331,436	292,962	58	7,868	15,129	15,419
33	NC State U.	330,936	131,262	86,543	41,959	67,784	3,388
34	U. KY all campuses	323,958	151,238	44,929	9,464	97,852	20,475
35	U. GA	323,843	92,652	49,806	5,865	162,851	12,669
36	VA Polytechnic Institute and State U.	321,722	119,994	93,316	15,911	76,918	15,583
37	Rutgers, The State U. NJ all campuses	308,204	129,456	35,937	9,542	103,370	29,899
38	U. CA, Irvine	300,229	169,983	9,862	16,224	64,683	39,477
39	SUNY Buffalo all campuses	297,909	153,152	12,197	18,408	81,740	32,412
40	U. Cincinnati all campuses	294,150	201,742	16,478	4,859	53,194	17,877
41	U. South FL	285,941	153,737	29,081	35,425	67,698	0
42	SUNY Albany	274,354	103,835	62,205	16,093	75,668	16,553
43	OR Health & Science U.	272,174	223,204	4,862	12,206	18,496	13,406
44	CO State U.	253,992	182,648	15,170	13,852	35,877	6,445
45	U. HI Manoa	249,635	202,419	8,788	12,540	25,888	0
46	U. TN all campuses	249,067	113,559	55,503	19,857	43,170	16,978
47	U. UT	248,168	174,888	1,719	8,132	45,255	18,174
48	U. of Medicine and Dentistry NJ	245,771	140,923	12,061	17,085	51,476	24,226
49	U. VA all campuses	238,754	203,778	864	4,758	19,912	9,442

Appendix D: R&D Expenditures at Public Universities and Colleges, Ranked by all R&D Expenditures for the First 150 Institutions, Ranked by Source of Funds: FY 2006

(Dollars in Thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
50	SUNY Stony Brook all campuses	234,635	112,973	3,527	5,151	92,616	20,368
51	IA State U.	221,998	104,553	40,323	10,845	61,547	4,730
52	Wayne State U.	220,731	118,042	14,072	9,429	63,092	16,096
53	U. MO-Columbia	215,240	101,732	16,850	2,848	88,589	5,221
54	U. CT all campuses	215,184	124,837	7,180	7,096	62,034	14,037
55	AZ State U. main campus	201,955	109,893	14,772	11,843	61,204	4,243
56	WA State U.	196,391	81,324	31,768	2,865	69,742	10,692
57	U. KS all campuses	195,947	115,522	4,670	3,365	63,767	8,623
58	U. MA Worcester	191,659	136,141	35,242	9,465	2,377	8,434
59	MS State U.	189,917	94,073	29,957	7,445	58,442	0
60	OR State U.	189,606	116,586	36,617	3,378	29,858	3,167
61	FL State U.	185,633	110,358	10,642	989	56,652	6,992
62	U. NM all campuses	181,223	127,907	1,922	5,118	44,230	2,046
63	U. TX Medical Branch	179,915	120,408	11,409	5,870	25,976	16,252
64	Clemson U.	179,840	56,268	29,297	12,185	78,918	3,172
65	U. OK all campuses	178,719	90,880	12,507	9,490	52,390	13,452
66	Medical U. SC	176,055	104,057	936	12,093	56,345	2,624
67	U. TX Health Science Ctr. Houston	175,154	122,870	14,854	8,622	13,081	15,727
68	U. CA, Santa Barbara	174,429	106,169	2,830	13,918	29,634	21,878
69	NM State U. all campuses	169,029	55,801	18,592	21,214	63,740	9,682
70	U. SC all campuses	153,737	89,294	3,963	3,166	47,967	9,347
71	U. AK Fairbanks all campuses	153,470	98,330	1,300	10,019	43,821	0
72	U. TX Health Science Ctr. San Antonio	150,040	95,110	7,694	7,552	27,959	11,725
73	VA Commonwealth U.	149,256	97,576	2,580	10,282	33,254	5,564
74	UT State U.	138,670	96,242	17,648	2,596	17,080	5,104
75	U. MA Amherst	136,057	69,642	5,684	5,934	45,773	9,024
76	U. Louisville	135,873	70,481	6,872	3,754	34,620	20,146
77	U. CA Office of the President	128,770	796	43,736	661	75,685	7,892
78	Auburn U. all campuses	126,522	45,540	1,714	4,697	69,346	5,225
79	U. CA, Riverside	124,820	58,023	4,937	4,947	45,153	11,760
80	KS State U.	123,746	52,649	36,421	1,757	25,860	7,059
81	WV U.	122,134	63,764	3,537	4,055	49,781	997
82	U. VT	121,841	82,519	5,679	7,874	18,806	6,963
83	U. NH	115,117	86,416	4,832	5,818	14,602	3,449
84	U. DE	114,985	79,640	4,737	4,326	21,723	4,559
85	U. CA, Santa Cruz	114,126	66,390	2,295	2,531	28,539	14,371
86	MT State U. Bozeman	112,428	75,362	18,913	3,105	15,048	0
87	U. Central FL	107,996	37,974	17,528	17,699	34,795	0
88	U. AR for Medical Sciences	107,871	66,127	7,077	3,571	17,305	13,791
89	ND State U. all campuses	103,778	45,418	30,055	719	23,649	3,937
90	OK State U. all campuses	100,323	37,943	25,211	4,113	32,274	782
91	U. AR main campus	99,271	31,926	38,252	7,299	15,699	6,095
92	U. NV, Reno	98,917	64,476	2,685	1,866	29,015	875
93	U. MS all campuses	93,471	67,717	3,521	1,385	14,435	6,413
94	U. ME	93,153	41,394	6,133	3,469	39,269	2,888
95	U. WY	89,414	25,844	2,616	1,937	55,108	3,909
96	U. ID	86,863	47,018	25,281	914	11,229	2,421
97	Temple U.	79,736	50,904	5,125	5,210	11,632	6,865
98	NJ Institute of Technology	77,583	35,489	5,600	6,420	25,718	4,356
99	TX A&M U. System Health Science Ctr.	76,109	35,214	1,502	5,467	21,321	12,605

Appendix D: R&D Expenditures at Public Universities and Colleges, Ranked by all R&D Expenditures for the First 150 Institutions, Ranked by Source of Funds: FY 2006

(Dollars in Thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
100	U. Houston	75,662	38,559	7,641	4,425	22,825	2,212
101	Southern IL U. Carbondale	74,520	20,108	9,278	10,801	31,000	3,333
102	NM Institute of Mining and Technology	73,792	47,901	6,650	9,991	9,012	238
103	San Diego State U.	73,777	35,351	6,929	508	24,061	6,928
104	U. RI	70,696	46,898	7,891	3,865	12,042	0
105	Uniformed Services U. of the Health Sciences	67,716	39,461	0	0	24,776	3,479
106	FL International U.	65,805	45,894	4,494	1,281	10,859	3,277
107	U. MD Baltimore County	65,718	44,830	2,236	1,342	12,683	4,627
108	Medical C. GA	61,174	41,555	147	988	14,824	3,660
109	U. MD Biotechnology Institute	59,297	32,005	257	949	25,097	989
110	U. AL Huntsville, The	59,231	44,636	471	4,029	10,095	0
111	TX Tech U.	58,591	22,278	15,516	4,764	12,448	3,585
112	U. OR	57,153	46,583	480	734	5,705	3,651
113	U. NV, Las Vegas	57,031	42,772	2,125	1,287	10,847	0
114	Naval Postgraduate School	56,780	54,528	980	999	0	273
115	U. ND all campuses	56,074	38,848	2,294	8,446	5,542	944
116	U. MT-Missoula, The	52,903	33,039	2,048	753	14,812	2,251
117	GA State U.	52,690	24,968	5,391	317	18,429	3,585
118	C. of William and Mary all campuses	52,025	29,121	2,928	723	17,239	2,014
119	George Mason U.	50,381	35,911	877	761	9,233	3,599
120	Old Dominion U.	49,966	27,506	3,312	2,206	16,942	0
121	Wright State U. all campuses	47,711	22,430	4,780	3,660	16,254	587
122	U. LA Lafayette	47,308	11,596	10,586	0	12,603	12,523
123	U. TX Dallas	44,198	19,954	15,506	2,232	2,208	4,298
124	U. Memphis, The	43,715	15,964	2,976	445	21,269	3,061
125	MI Technological U.	43,081	18,757	422	4,194	18,933	775
126	U. MD Ctr. for Environmental Science	40,146	12,860	4,949	143	18,129	4,065
127	U. Southern MS	39,163	34,577	815	2,469	1,302	0
128	Desert Research Institute	38,511	30,407	2,885	750	1,637	2,832
129	U. PR Medical Sciences Campus	38,424	31,199	2,907	1,249	3,059	10
130	Jackson State U.	38,273	30,783	0	918	6,572	0
131	OH U. all campuses	38,000	19,573	1,299	3,491	12,324	1,313
132	U. MO-Rolla	37,384	22,351	5	3,148	11,082	798
133	SUNY Upstate Medical U.	37,181	27,247	599	2,459	1,146	5,730
134	U. AL, The	35,129	22,847	3,439	1,927	6,308	608
135	San Jose State U.	34,687	23,197	7,634	308	1,319	2,229
136	FL A&M U.	34,293	24,902	4,071	5,320	0	0
137	U. WI Milwaukee	34,033	15,867	4,193	785	11,217	1,971
138	SD State U.	33,275	12,788	11,762	560	2,355	5,810
139	U. TX El Paso	32,161	19,331	7,776	1,795	3,259	0
140	Wichita State U.	31,873	16,302	7,491	2,787	5,118	175
141	CUNY Hunter C.	31,308	18,472	3,666	76	6,521	2,573
142	SUNY Health Science Ctr. Brooklyn	31,064	25,184	0	1,099	2,534	2,247
143	U. Toledo	30,493	16,534	1,223	872	10,872	992
144	U. TX San Antonio	30,259	20,277	6,566	226	3,190	0
145	SUNY Binghamton	29,635	12,213	1,492	2,788	8,007	5,135
146	U. TX Arlington	29,267	19,006	1,674	2,740	5,847	0
147	FL Atlantic U.	28,896	19,952	3,766	1,590	1,068	2,520
148	Portland State U.	28,763	18,797	2,236	987	4,516	2,227
149	CO School of Mines	28,729	20,543	484	7,702	0	0

Appendix D: R&D Expenditures at Public Universities and Colleges, Ranked by all R&D Expenditures for the First 150 Institutions, Ranked by Source of Funds: FY 2006

(Dollars in Thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
150	CUNY The City C.	28,593	21,408	2,918	3,824	403	40
	All other sampled institutions	1,335,646	830,191	134,800	68,679	240,150	61,826

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2006.

Appendix E: R&D Expenditures at all Universities and Colleges Without a Medical school, Ranked by all R&D Expenditures, by Source of Funds: FY 2006

(Dollars in Thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
	All institutions	15,247,454	8,459,237	1,623,433	859,383	3,563,320	742,081
1	MA Institute of Technology	600,748	476,362	681	75,790	10,576	37,339
2	U. CA, Berkeley	546,035	261,718	36,418	24,744	146,469	76,686
3	TX A&M U. all campuses	492,955	206,242	115,623	33,613	127,042	10,435
4	U. IL Urbana-Champaign	476,198	264,645	35,289	11,516	150,474	14,274
5	U. TX M. D. Anderson Cancer Ctr.	457,696	182,028	121,682	28,020	76,287	49,679
6	GA Institute of Technology all campuses	440,898	257,751	12,323	37,279	128,676	4,869
7	U. TX Austin	431,398	273,147	24,087	32,637	78,412	23,115
8	Purdue U. all campuses	372,958	157,438	53,485	45,549	114,647	1,839
9	Scripps Research Institute, The	367,375	268,533	73	16,277	59,544	22,948
10	U. MD College Park	354,244	209,764	17,140	10,613	109,817	6,910
11	NC State U.	330,936	131,262	86,543	41,959	67,784	3,388
12	U. GA	323,843	92,652	49,806	5,865	162,851	12,669
13	VA Polytechnic Institute and State U.	321,722	119,994	93,316	15,911	76,918	15,583
14	Rutgers, The State U. NJ all campuses	308,204	129,456	35,937	9,542	103,370	29,899
15	SUNY Albany	274,354	103,835	62,205	16,093	75,668	16,553
16	CA Institute of Technology	270,269	248,591	1,809	7,981	4,150	7,738
17	CO State U.	253,992	182,648	15,170	13,852	35,877	6,445
18	IA State U.	221,998	104,553	40,323	10,845	61,547	4,730
19	Rockefeller U.	215,417	93,742	361	3,218	109,828	8,268
20	Carnegie Mellon U.	212,506	185,389	4,130	12,025	4,824	6,138
21	AZ State U. main campus	201,955	109,893	14,772	11,843	61,204	4,243
22	WA State U.	196,391	81,324	31,768	2,865	69,742	10,692
23	MS State U.	189,917	94,073	29,957	7,445	58,442	0
24	OR State U.	189,606	116,586	36,617	3,378	29,858	3,167
25	Princeton U.	188,165	117,845	1,280	6,200	51,659	11,181
26	Clemson U.	179,840	56,268	29,297	12,185	78,918	3,172
27	U. CA, Santa Barbara	174,429	106,169	2,830	13,918	29,634	21,878
28	NM State U. all campuses	169,029	55,801	18,592	21,214	63,740	9,682
29	U. AK Fairbanks all campuses	153,470	98,330	1,300	10,019	43,821	0
30	UT State U.	138,670	96,242	17,648	2,596	17,080	5,104
31	U. MA Amherst	136,057	69,642	5,684	5,934	45,773	9,024
32	U. CA Office of the President	128,770	796	43,736	661	75,685	7,892
33	Auburn U. all campuses	126,522	45,540	1,714	4,697	69,346	5,225
34	U. CA, Riverside	124,820	58,023	4,937	4,947	45,153	11,760
35	KS State U.	123,746	52,649	36,421	1,757	25,860	7,059
36	Woods Hole Oceanographic Institution	121,888	101,631	117	881	12,528	6,731
37	U. NH	115,117	86,416	4,832	5,818	14,602	3,449
38	U. DE	114,985	79,640	4,737	4,326	21,723	4,559
39	U. CA, Santa Cruz	114,126	66,390	2,295	2,531	28,539	14,371
40	MT State U. Bozeman	112,428	75,362	18,913	3,105	15,048	0
41	U. Central FL	107,996	37,974	17,528	17,699	34,795	0
42	ND State U. all campuses	103,778	45,418	30,055	719	23,649	3,937
43	OK State U. all campuses	100,323	37,943	25,211	4,113	32,274	782
44	U. AR main campus	99,271	31,926	38,252	7,299	15,699	6,095
45	U. ME	93,153	41,394	6,133	3,469	39,269	2,888
46	U. WY	89,414	25,844	2,616	1,937	55,108	3,909

Appendix E: R&D Expenditures at all Universities and Colleges Without a Medical school, Ranked by all R&D Expenditures, by Source of Funds: FY 2006

(Dollars in Thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
47	U. ID	86,863	47,018	25,281	914	11,229	2,421
48	U. of Notre Dame	78,553	55,710	2,669	9,280	10,894	0
49	NJ Institute of Technology	77,583	35,489	5,600	6,420	25,718	4,356
50	U. Houston	75,662	38,559	7,641	4,425	22,825	2,212
51	NM Institute of Mining and Technology	73,792	47,901	6,650	9,991	9,012	238
52	San Diego State U.	73,777	35,351	6,929	508	24,061	6,928
53	U. RI	70,696	46,898	7,891	3,865	12,042	0
54	Rensselaer Polytechnic Institute	70,576	44,690	6,715	6,560	9,711	2,900
55	U. Dayton	69,080	56,779	5,130	4,266	2,143	762
56	Rice U.	66,564	53,880	1,468	1,468	4,070	5,678
57	Northeastern U.	66,495	36,071	1,428	9,595	19,401	0
58	FL International U.	65,805	45,894	4,494	1,281	10,859	3,277
59	U. MD Baltimore County	65,718	44,830	2,236	1,342	12,683	4,627
60	U. MD Biotechnology Institute	59,297	32,005	257	949	25,097	989
61	U. AL Huntsville, The	59,231	44,636	471	4,029	10,095	0
62	TX Tech U.	58,591	22,278	15,516	4,764	12,448	3,585
63	U. OR	57,153	46,583	480	734	5,705	3,651
64	U. NV, Las Vegas	57,031	42,772	2,125	1,287	10,847	0
65	Brandeis U.	57,017	41,184	31	0	5,835	9,967
66	Naval Postgraduate School	56,780	54,528	980	999	0	273
67	U. MT-Missoula, The	52,903	33,039	2,048	753	14,812	2,251
68	GA State U.	52,690	24,968	5,391	317	18,429	3,585
69	C. of William and Mary all campuses	52,025	29,121	2,928	723	17,239	2,014
70	George Mason U.	50,381	35,911	877	761	9,233	3,599
71	Old Dominion U.	49,966	27,506	3,312	2,206	16,942	0
72	U. LA Lafayette	47,308	11,596	10,586	0	12,603	12,523
73	U. TX Dallas	44,198	19,954	15,506	2,232	2,208	4,298
74	U. Memphis, The	43,715	15,964	2,976	445	21,269	3,061
75	MI Technological U.	43,081	18,757	422	4,194	18,933	775
76	U. MD Ctr. for Environmental Science	40,146	12,860	4,949	143	18,129	4,065
77	U. Southern MS	39,163	34,577	815	2,469	1,302	0
78	Desert Research Institute	38,511	30,407	2,885	750	1,637	2,832
79	Jackson State U.	38,273	30,783	0	918	6,572	0
80	OH U. all campuses	38,000	19,573	1,299	3,491	12,324	1,313
81	U. MO-Rolla	37,384	22,351	5	3,148	11,082	798
82	Syracuse U. all campuses	36,100	25,299	2,609	2,220	5,972	0
83	Boston C.	35,659	18,344	251	861	6,803	9,400
84	U. AL, The	35,129	22,847	3,439	1,927	6,308	608
85	San Jose State U.	34,687	23,197	7,634	308	1,319	2,229
86	FL A&M U.	34,293	24,902	4,071	5,320	0	0
87	U. WI Milwaukee	34,033	15,867	4,193	785	11,217	1,971
88	Lehigh U.	33,469	18,248	9,429	1,961	3,413	418
89	SD State U.	33,275	12,788	11,762	560	2,355	5,810
90	U. TX El Paso	32,161	19,331	7,776	1,795	3,259	0
91	Wichita State U.	31,873	16,302	7,491	2,787	5,118	175
92	CUNY Hunter C.	31,308	18,472	3,666	76	6,521	2,573
93	U. Toledo	30,493	16,534	1,223	872	10,872	992
94	U. TX San Antonio	30,259	20,277	6,566	226	3,190	0

Appendix E: R&D Expenditures at all Universities and Colleges Without a Medical school, Ranked by all R&D Expenditures, by Source of Funds: FY 2006

(Dollars in Thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
95	SUNY Binghamton	29,635	12,213	1,492	2,788	8,007	5,135
96	U. TX Arlington	29,267	19,006	1,674	2,740	5,847	0
97	FL Atlantic U.	28,896	19,952	3,766	1,590	1,068	2,520
98	Portland State U.	28,763	18,797	2,236	987	4,516	2,227
99	CO School of Mines	28,729	20,543	484	7,702	0	0
100	Hampton U.	28,705	28,584	0	0	121	0
101	CUNY The City C.	28,593	21,408	2,918	3,824	403	40
102	U. Akron all campuses	28,440	11,433	724	3,316	9,413	3,554
103	U. MA Lowell	27,635	18,741	601	4,423	3,870	0
104	Northern AZ U.	27,632	14,305	4,598	1,629	7,100	0
105	San Francisco State U.	27,333	17,255	3,593	51	4,447	1,987
106	Brigham Young U. all campuses	25,973	17,309	1,265	2,840	3,174	1,385
107	Stevens Institute of Technology	25,848	22,501	1,191	1,603	553	0
108	U. North TX Health Science Ctr. Ft. Worth	25,124	19,183	99	1,401	2,466	1,975
109	Southern IL U. Edwardsville	23,737	1,305	1,621	288	20,401	122
110	NC Agricultural and Technical State U.	23,698	15,885	96	244	7,473	0
111	IL Institute of Technology	22,646	19,121	1,070	1,319	1,054	82
112	Rochester Institute of Technology	22,107	14,581	550	2,042	3,975	959
113	U. PR Rio Piedras Campus	21,609	16,881	82	2	4,625	19
114	U. PR Mayaguez Campus	21,080	10,645	3,515	823	3,821	2,276
115	U. MA Boston	21,056	8,610	1,662	0	7,007	3,777
116	U. Southern ME	20,045	11,662	2,599	311	2,757	2,716
117	Miami U. all campuses	19,229	7,874	1,339	586	8,712	718
118	U. MA Dartmouth	19,171	9,516	5,069	1,680	2,906	0
119	Air Force Institute of Technology	18,783	5,212	2	294	13,275	0
120	U. NC Charlotte	18,463	10,792	1,829	3,857	1,985	0
121	Western MI U.	18,005	11,214	850	2,482	2,471	988
122	Catholic U. America, The	17,662	13,264	16	848	3,444	90
123	U. of the VI	17,495	12,518	3,124	1,853	0	0
124	ID State U.	16,754	11,661	167	1,560	3,027	339
125	Northern IL U.	16,627	11,696	363	1,017	3,551	0
126	Clarkson U.	16,143	8,280	1,398	2,724	3,741	0
127	LA Tech U.	15,276	5,769	710	424	8,347	26
128	U. North TX	14,819	8,343	275	642	4,014	1,545
129	Cleveland State U.	14,496	5,159	3,205	231	4,599	1,302
130	Worcester Polytechnic Institute	14,483	10,193	40	975	2,719	556
131	Polytechnic U.	14,479	7,486	1,846	2,420	1,330	1,397
132	AL A&M U.	14,431	7,537	3,850	85	2,270	689
133	TN State U.	14,096	10,216	115	37	3,728	0
134	Embry-Riddle Aeronautical U.	13,957 i	7,518 i	638 i	5,186 i	578 i	37 i
135	U. NC Wilmington	13,609	9,884	469	19	3,237	0
136	Morgan State U.	13,523	12,199	310	110	834	70
137	TX A&M U. Kingsville	13,343	4,625	1,020	131	6,760	807
138	TX A&M U. Corpus Christi	12,654	7,798	2,539	44	633	1,640
139	SUNY C. of Environmental Science and Forestry	12,643 i	8,059 i	1,160 i	1,126 i	836 i	1,462 i
140	SD School of Mines and Technology	12,589	9,834	1,065	72	1,427	191
141	CA State Polytechnic U. San Luis Obispo	12,529	6,461	2,026	807	1,812	1,423

Appendix E: R&D Expenditures at all Universities and Colleges Without a Medical school, Ranked by all R&D Expenditures, by Source of Funds: FY 2006

(Dollars in Thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
142	Southern Methodist U.	12,475	9,303	197	361	1,889	725
143	U. Tulsa	12,358	7,964	452	3,240	702	0
144	U. MO-St. Louis	11,713	5,046	83	85	6,184	315
145	Tuskegee U.	11,651	8,971	0	0	0	2,680
146	Prairie View A&M U.	11,444	9,067	1,851	129	397	0
147	Teachers C. Columbia U.	11,411	6,770	0	0	0	4,641
148	Clark Atlanta U.	11,155	10,008	42	0	413	692
149	CA State U. San Bernardino	11,120	5,367	855	4,134	577	187
150	Kent State U. all campuses	11,076	8,198	735	700	1,443	0
151	U. Denver	10,581	8,543	92	747	774	425
152	U.S. Air Force Academy	10,547	9,678	0	118	0	751
153	Marquette U.	10,445	7,566	45	317	1,611	906
154	CA State U. Long Beach	10,322	8,368	574	397	423	560
155	Bowling Green State U. all campuses	9,912	5,408	440	489	2,885	690
156	CA State U. Fresno	9,749	1,561	6,773	416	999	0
157	TN Technological U.	9,575	3,601	3,943	493	1,520	18
158	U. AR Little Rock	9,331	1,126	3,332 i	1,632 i	845 i	2,396 i
159	Oakland U.	9,169	6,205	374	653	1,826	111
160	CA State U. Los Angeles	8,956	8,672	124	44	0	116
161	U. AK Anchorage all campuses	8,844	6,333	1,048	0	0	1,463
162	Western KY U.	8,701	7,079	807	227	588	0
163	Ball State U.	8,625	5,119	483	1,072	1,951	0
164	Duquesne U.	8,345	3,171	207	163	4,655	149
165	VA State U.	8,189	5,813	29	0	2,347	0
166	Stephen F. Austin State U.	8,171	3,695	1,317	249	2,519	391
167	Wesleyan U.	8,170	4,744	180	31	2,384	831
168	Tarleton State U.	8,069	5,488	1,654	25	636	266
169	U. Baltimore	7,856	1,757	4,607	319	200	973
170	Boise State U.	7,848	7,448	195	179	0	26
171	U. HI Hilo	7,843	7,678	145	11	0	9
172	FL Institute of Technology	7,684	6,138	699	847	0	0
173	U. GU	7,604	7,324	4	276	0	0
174	U. CA, Merced	7,527	3,135	2,182	175	1,408	627
175	CA State U. Northridge	7,490	5,200	655	96	1,210	329
176	CUNY Queens C.	7,432	6,422	153	554	303	0
177	Villanova U.	7,122 i	5,039 i	330 i	975 i	0 i	778 i
178	TX State U. San Marcos	7,034	1,872	2,359	1,266	1,537	0
179	DE State U.	7,016	6,506	252	258	0	0
180	U. Central AR	7,002	2,490	551	2,569	491	901
181	New School, The	6,950	4,854	0	0	0	2,096
182	U.S. Naval Academy	6,850	6,487	0	363	0	0
183	U. AR Pine Bluff	6,774	3,777	86	0	2,911	0
184	NC Central U.	6,597	6,597	0	0	0	0
185	Alcorn State U.	6,593	5,706	887	0	0	0
186	Humboldt State U.	6,500	2,548	2,082	190	920	760
187	Western WA U.	6,453	2,878	417	128	2,607	423
188	Nova Southeastern U.	6,445	3,204	1,814	0	140	1,287
189	CA State U. Bakersfield	6,379	2,301	3,388	215	475	0

Appendix E: R&D Expenditures at all Universities and Colleges Without a Medical school, Ranked by all R&D Expenditures, by Source of Funds: FY 2006

(Dollars in Thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
190	MT Tech of the U. MT	6,372	5,040	1,240	92	0	0
191	Alfred U. all campuses	6,347	2,364	1,190	1,675	1,118	0
192	Baylor U.	6,133	1,269	317	2,190	1,766	591
193	U. NC Greensboro	6,059	5,211	216	148	95	389
194	Fordham U.	6,033	2,441	488	0	2,286	818
195	Morehouse C.	6,008	5,378	0	0	239	391
196	AR State U. main campus	6,007	3,938	1,298	41	572	158
197	Fisk U.	6,000	6,000	0	0	0	0
198	C. Charleston	5,719	3,967	93	0	1,592	67
199	Lincoln U. (Jefferson City, MO)	5,395	4,367	1,028	0	0	0
200	Clark U.	5,304	3,192	4	0	1,512	596
201	Southwest MO State U.	5,188	4,615	212	66	0	295
202	Norfolk State U.	5,144	4,621	24	0	0	499
203	U. DC	5,065	3,813	804	0	439	9
204	U. TX-Pan American	5,006	3,139	1,681	3	13	170
205	IL State U.	4,874	3,156	426	409	883	0
206	James Madison U.	4,799	3,576	111	0	235	877
207	Rose-Hulman Institute of Technology	4,700	1,689	45	39	0	2,927
208	CUNY Brooklyn C.	4,621	3,258	9	750	450	154
209	Rowan U.	4,581	3,293	720	488	80	0
210	West TX A&M U.	4,523	2,489	1,274	760	0	0
211	CA State U. Fullerton	4,522	4,083	47	238	154	0
212	Wheeling Jesuit U.	4,499 i	4,499 i	0 i	0 i	0 i	0 i
213	CUNY Herbert H. Lehman C.	4,476	3,733	12	189	542	0
214	U. MD Eastern Shore	4,454	4,367	40	0	0	47
215	U. PR Humacao	4,429	4,080	0	0	349	0
216	U. West FL	4,429	3,400	752	268	0	9
217	Langston U.	4,416	3,661	755	0	0	0
218	U. LA Monroe	4,376	1,743	1,911	186	39	497
219	CA State U. Sacramento	4,372 i	4,372 i	0 i	0 i	0 i	0 i
220	Southern U. and A&M C. all campuses	4,350	3,496	830	0	18	6
221	TX Southern U.	4,299	4,225	0	73	1	0
222	Bryn Mawr C.	4,254	998	10	10	3,236	0
223	U. of the Pacific	4,161	1,142	1,275	1,744	0	0
224	St. Francis U. (Loretto, PA)	4,114	4,114	0	0	0	0
225	U. North FL	4,110	2,120	943	395	438	214
226	CA State U. Monterey Bay	4,107	3,779	215	0	0	113
227	TX Christian U.	4,090	3,318	76	600	96	0
228	Williams C.	4,074	2,141	0	0	1,031	902
229	OR Institute of Technology	4,047	1,550	50	2,447	0	0
230	Central MI U.	4,033	1,368	368	503	1,794	0
231	Wellesley C.	4,032	2,819	242	48	0	923

Appendix E: R&D Expenditures at all Universities and Colleges Without a Medical school, Ranked by all R&D Expenditures, by Source of Funds: FY 2006

(Dollars in Thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
232	Xavier U. LA	3,982	3,783	187	12	0	0
233	DePaul U.	3,957	3,160	65	187	545	0
234	CUNY Graduate Ctr.	3,913	2,544	294	0	60	1,015
235	Smith C.	3,884	2,796	36	7	0	1,045
236	SC State U.	3,796	2,587	33	0	364	812
237	NY Institute of Technology all campuses	3,613	267	1,027	366	1,953	0
238	Eastern MI U.	3,580	2,611	63	270	588	48
239	Kettering U.	3,473	2,882	125	208	10	248
240	Amherst C.	3,388	1,708	0	35	1,251	394
241	Grand Valley State U.	3,375	332	190	0	2,431	422
242	Murray State U.	3,364	1,005	1,207	133	1,019	0
243	KY State U.	3,340	3,254	53	33	0	0
244	Lamar U.	3,277	1,785	1,410	76	6	0
245	U. NC Asheville	3,192	1,745	685	206	88	468
246	CA State U. Dominguez Hills	3,190	2,530	362	0	67	231
247	FL Gulf Coast U.	3,133	2,598	300	0	13	222
248	Claremont Graduate U.	3,100	1,093	74	129	525	1,279
249	Spelman C.	3,084	2,901	0	183	0	0
250	St. Joseph's U.	3,037	2,566	13	0	124	334
251	Milwaukee School of Engineering	2,933	786	1	1,445	630	71
252	Hope C.	2,926	1,710	0	0	349	867
253	Long Island U. all campuses	2,880	2,088	192	325	211	64
254	Bucknell U.	2,841	1,802	55	395	320	269
255	U. WI La Crosse	2,838	1,618	154	363	566	137
256	CA State U. East Bay	2,833	2,037	309	80	84	323
257	Southern CT State U.	2,821 i	1,757 i	655 i	53 i	352 i	4 i
258	Pittsburg State U.	2,810	1,255	568	853	0	134
259	Midwestern U. (Chicago, IL)	2,786	1,168	0	166	1,390	62
260	CA State U. Chico	2,767 i	1,083 i	1,453 i	113 i	0 i	118 i
261	Barnard C.	2,742	2,098	0	0	125	519
262	Sul Ross State U.	2,676	1,586	480	0	0	610
263	Black Hills State U.	2,628	1,925	576	21	0	106
264	Pomona C.	2,584	1,053	0	0	1,454	77
265	Ft. Valley State U.	2,570	2,570	0	0	0	0
266	U. Northern CO	2,566	1,590	19	5	760	192
267	Mt. Holyoke C.	2,563	1,780	21	0	88	674
268	CA State Polytechnic U. Pomona	2,502	2,502	0	0	0	0
269	WV State U.	2,467	1,867	589	11	0	0
270	American U.	2,410	1,678	0	732	0	0
271	Seton Hall U.	2,395	1,184	466	745	0	0
272	Swarthmore C.	2,385	1,682	1	0	401	301
273	Macalester C.	2,351	983	0	0	1,300	68
274	Savannah State U.	2,342	2,342	0	0	0	0
275	U. WI Stevens Point	2,335	945	130	8	452	800
276	Central State U.	2,320	2,263	41	16	0	0
277	Albany C. of Pharmacy	2,307	524	246	1,092	445	0
278	Harvey Mudd C.	2,301	1,003	0	623	424	251
279	CUNY C. Staten Island	2,282	1,302	379	440	161	0

Appendix E: R&D Expenditures at all Universities and Colleges Without a Medical school, Ranked by all R&D Expenditures, by Source of Funds: FY 2006

(Dollars in Thousands)

Rank	Institution	All R&D expenditures	Federal government	State and local government	Industry	Institutional funds	All other sources
280	Bowdoin C.	2,281	1,484	2	411	384	0
281	IN State U. all campuses	2,271	1,147	396	505	8	215
282	St. Cloud State U.	2,224	832	82	665	645	0
283	Central WA U.	2,183	1,494	79	59	382	169
284	Appalachian State U.	2,158	1,576	92	87	310	93
285	Southeastern LA U.	2,150	1,402	339	151	258	0
286	Lawrence Technological U.	2,137	1,939	31	167	0	0
287	Chicago State U.	2,119	1,994	0	0	125	0
288	Middle TN State U.	2,015	636	193	111	1,039	36
289	Gallaudet U.	2,013	1,959	54	0	0	0
290	Eastern WA U.	1,999	411	1,158	0	150	280
291	Union C. (Schenectady, NY)	1,992	534	259	685	364	150
292	SUNY C. Plattsburgh	1,985	1,461	145	45	236	98
293	TX Woman's U.	1,975	637	498	115	560	165
294	Sam Houston State U.	1,958	1,115	449	28	296	70
295	Bowie State U.	1,951	1,951	0	0	0	0
296	U. Richmond	1,923	1,310	0	340	246	27
297	SUNY C. of Optometry	1,913	1,753	0	64	40	56
298	Bradley U.	1,905	405	0	1,057	443	0
299	Western Carolina U.	1,905	1,362	543	0	0	0
300	AL State U.	1,900	1,685	0	5	210	0

i = data point 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.

Although the original table has 517 rankings, only the top 300 are being presented here.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2006.

Appendix F: Total and Federally Financed R&D Expenditures in the Computer Sciences at Universities and Colleges, Ranked by FY 2006 Total for the First 100 Institutions: FY 2003–06

		(Dollars in Thousands)							
Rank	Institution	Total				Federally financed			
		2003	2004	2005	2006	2003	2004	2005	2006
	All institutions	1,304,986	1,404,026	1,405,543	1,437,605	936,961	1,025,005	1,022,180	1,015,337
1	Carnegie Mellon U.	86,623	100,324	106,527	117,865	77,036	90,589	97,313	109,615
2	U. Southern CA	86,600	85,367	88,861	93,573	77,574	80,199	82,915	86,580
3	U. IL Urbana-Champaign	111,009	113,320	104,792	81,675	85,040	75,934	78,081	55,422
4	Johns Hopkins U., The ^a	66,160	73,123	69,653	70,268	63,943	72,265	68,146	69,254
5	U. CA, San Diego	68,996	85,259	65,271	64,466	49,965	65,816	44,146	43,245
6	MA Institute of Technology	45,413	44,543	44,693	49,500	26,804	28,050	30,628	33,158
7	GA Institute of Technology								
	all campuses	51,608	54,756	54,788	47,560	27,721	39,462	39,080	30,541
8	U. TX Austin	28,749	29,259	39,405	41,897	25,717	25,778	31,461	33,842
9	U. MD College Park	31,902	27,990	29,641	37,605	20,462	16,293	17,715	21,554
10	OH State U. all campuses	26,274	23,397	35,998	33,693	2,670	6,523	12,778	14,854
11	PA State U. all campuses	17,294	31,575	28,576	32,371	14,130	25,968	21,739	24,196
12	Cornell U. all campuses	26,525	27,124	27,601	28,081	15,540	15,722	16,403	16,418
13	Stanford U.	16,794	18,579	19,610	21,922	14,241	16,413	17,397	18,647
14	U. HI Manoa	19,430	18,143	18,922	21,252	19,351	18,110	18,767	21,057
15	U. Chicago	4,076	8,478	10,879	18,144	4,046	8,403	10,841	17,490
16	U. MA Amherst	16,368	16,312	18,160	17,404	9,392	10,495	9,841	8,523
17	OR Health & Science U.	20,207	17,805	18,630	16,702	16,765	16,007	16,063	13,687
18	U. MN all campuses	11,619	13,655	13,987	16,060	8,855	10,269	9,501	10,190
19	U. CA, Los Angeles	17,869	16,433	15,734	15,992	9,861	12,717	11,740	12,510
20	U. UT	17,262	17,098	16,457	15,020	11,949	10,704	9,973	11,171
21	U. WI Madison	13,145	13,457	14,454	14,624	9,974	10,607	11,791	11,600
22	U. IL Chicago	12,245	9,144	12,999	12,594	9,142	5,875	6,344	4,786
23	IN U. all campuses	10,411	12,596	8,370	12,397	5,353	6,955	4,749	6,545
24	U. NC Chapel Hill	9,995	8,555	11,214	11,764	7,495	5,927	8,378	9,454
25	U. CA, Irvine	10,218	12,234	11,506	11,699	4,808	6,495	6,728	6,505
26	U. CA, Santa Barbara	12,267	11,893	10,537	10,671	9,256	8,887	8,664	8,345
27	AZ State U. main campus	4,680	5,228	5,877	10,409	2,967	2,970	3,149	3,782
28	Clemson U.	2,005	2,078	2,260	10,226	690	703	710	540
29	VA Polytechnic Institute and State U.	5,177	14,858	9,005	10,032	2,770	2,601	3,003	3,691
30	Princeton U.	7,172	8,226	9,199	9,779	4,730	4,706	5,629	6,644
31	Rice U.	10,614	9,202	8,490	9,732	8,801	8,126	7,928	8,690
32	U. Central FL	29	0	398	9,668	26	0	0	93
33	SUNY Buffalo all campuses	8,474	8,933	9,214	9,657	3,908	5,104	4,881	5,128
34	U. TN all campuses	11,719	12,736	9,386	9,256	6,629	6,930	4,911	4,779
35	Columbia U. in the City of NY	8,985	9,443	9,613	9,174	8,684	8,879	8,476	8,085
36	CA Institute of Technology	10,446	12,177	12,199	9,136	10,446	12,177	12,157	8,904
37	Brown U.	6,871	7,038	7,568	8,839	4,664	4,636	4,683	5,313
38	MS State U.	2,620	10,168	7,313	8,824	1,358	4,377	4,000	5,688
39	Rutgers, The State U. NJ all campuses	6,359	8,378	7,600	8,814	2,865	2,946	3,412	4,732
40	U. AL Huntsville, The	6,308	8,420	8,079	8,615	5,254	7,249	6,840	7,335
41	FL State U.	4,654	8,087	11,675	8,565	2,801	4,838	4,892	4,523
42	SUNY Stony Brook all campuses	5,518	6,101	4,695	8,366	3,382	3,852	3,242	3,103

Appendix F: Total and Federally Financed R&D Expenditures in the Computer Sciences at Universities and Colleges, Ranked by FY 2006 Total for the First 100 Institutions: FY 2003–06

(Dollars in Thousands)

Rank	Institution	Total				Federally financed			
		2003	2004	2005	2006	2003	2004	2005	2006
43	Purdue U. all campuses	9,588	16,642	9,523	8,232	5,135	6,536	5,449	4,732
44	U. CA, Davis	3,812	3,575	4,921	7,795	1,936	2,264	3,662	4,135
45	U. CO all campuses	5,743	7,289	7,295	7,641	5,158	6,475	6,485	6,612
46	IA State U.	5,691	5,721	5,818	7,508	1,768	2,010	2,350	3,223
47	U. NE all campuses	5,984	6,300	7,726	7,460	3,187	3,801	4,784	4,357
48	Washington U. St. Louis	5,468	5,432	7,154	7,262	3,585	3,897	3,491	3,600
49	U. MI all campuses	7,365	9,840	5,888	7,190	4,114	4,041	4,231	4,707
50	U. PA	11,073	8,120	8,203	7,166	9,583	6,096	5,739	5,227
51	Drexel U.	2,855	1,396	2,027	6,763	2,043	1,056	1,684	5,040
52	U. TX Dallas	3,476	3,023	8,340	6,631	1,889	1,761	3,478	2,613
53	TX A&M U. all campuses	6,007	7,204	8,070	6,574	3,331	3,658	3,924	3,840
54	Wright State U. all campuses	2,928	5,096	4,524	6,499	873	2,339	1,592	1,480
55	U. AL, The	2,383	2,743	4,018	6,467	1,444	1,024	1,910	3,685
56	U. AK Fairbanks all campuses	12,035	12,616	10,245	6,216	4,645	10,354	8,674	4,432
57	U. VA all campuses	5,980	7,236	6,940	6,151	5,550	6,472	6,180	5,643
58	U. LA Lafayette	6,015	5,091	7,967	6,037	611	543	402	552
59	U. AZ	5,503	5,585	7,904	5,971	3,969	4,516	5,640	3,545
60	George Mason U.	4,384	4,418	5,977	5,791	4,243	4,161	5,874	4,484
61	U. FL	3,564	3,250	4,498	5,479	2,881	2,818	2,985	3,655
62	U. Houston	3,709	4,453	5,893	5,441	2,391	2,444	2,761	2,695
63	NY U.	8,402	7,993	6,461	5,175	6,297	6,342	5,664	4,156
64	New School, The	0 i	1,269	2,994	5,026	0 i	460	2,536	4,547
65	Rockefeller U.	5,594	4,270	4,459	4,968	684	40	0	0
66	NJ Institute of Technology	3,967	3,924	3,757	4,944	972	1,041	940	1,782
67	Yale U.	5,398	5,307	4,766	4,940	4,236	4,193	3,857	4,059
68	NC State U.	4,542	4,412	4,428	4,907	3,488	3,234	3,543	3,888
69	Dartmouth C.	5,572	4,195	3,862	4,821	3,903	2,727	2,480	3,071
70	U. Pittsburgh all campuses	3,736	3,237	4,013	4,688	3,396	2,828	3,084	3,743
71	FL International U.	1,327	3,750	4,525	4,201	1,039	2,828	3,030	3,132
72	U. NC Charlotte	1,626	3,316	4,051	4,154	957	3,027	2,106	1,868
73	Duke U.	5,677	4,696	3,678	3,927	5,192	4,276	3,380	3,122
74	MI State U.	4,237	4,292	4,062	3,921	2,396	2,307	2,022	2,151
75	U. NM all campuses	2,717	3,404	3,889	3,798	2,533	3,189	3,496	3,484
76	OR State U.	1,970	2,309	2,687	3,664	1,261	1,851	2,386	3,387
77	U. CT all campuses	1,845	2,939	3,326	3,662	1,104	2,057	2,427	1,616
78	Naval Postgraduate School	13,759	12,667 i	5,170	3,573	13,493	11,717 i	4,913	3,543
79	Portland State U.	1,544	1,544 e	2,587	3,519	1,132	1,132 e	2,011	2,790
80	Syracuse U. all campuses	6,220	6,037	8,247	3,439	3,817	3,723	4,559	2,798
81	U. GA	2,641	2,957	3,045	3,406	396	635	684	763
82	U. Tulsa	3,202	3,694	3,439	3,369	2,938	3,525	3,270	2,997
83	U. KY all campuses	3,892	4,153	3,801	3,354	2,389	2,573	2,102	1,688
84	U. of Notre Dame	1,888	2,307	2,797	3,346	1,728	2,170	2,700	3,172
85	U. OR	2,686	3,719	2,730	3,341	2,655	3,592	2,576	3,105
86	U. TX San Antonio	2,350	2,091	3,299	3,189	2,192	1,955	3,171	2,985
87	Rensselaer Polytechnic Institute	1,860	1,938	2,314	3,079	1,116	1,246	1,929	2,490

Appendix F: Total and Federally Financed R&D Expenditures in the Computer Sciences at Universities and Colleges, Ranked by FY 2006 Total for the First 100 Institutions: FY 2003–06

(Dollars in Thousands)

Rank	Institution	Total				Federally financed			
		2003	2004	2005	2006	2003	2004	2005	2006
88	Air Force Institute of Technology	335	1,249	1,408	3,074	332	676	543	661
89	U. Memphis, The	809	1,769	1,566	2,977	24	0	0	759
90	SUNY Albany	2,859	3,896	3,529	2,964	2,264	2,158	2,064	1,630
91	Jackson State U.	3,692	3,180	3,698	2,939	3,320	2,895	3,140	2,364
92	LA State U. all campuses	2,950	3,163	2,939	2,882	514	557	976	1,055
93	Stevens Institute of Technology	747 i	4,217	5,194	2,817	440 i	3,584	4,925	2,780
94	U. Rochester	2,486	3,560	3,152	2,714	2,244	3,266	2,911	2,259
95	U. OK all campuses	3,150	1,910	2,457	2,579	129	533	670	821
96	U. CA, Riverside	2,108	2,982	2,778	2,532	1,781	2,401	1,641	1,340
97	Polytechnic U.	1,307 i	1,951	2,525	2,409	556 i	1,078	1,900	1,150
98	Old Dominion U.	830	1,193	2,517	2,306	476	796	573	976
99	U. CA, Santa Cruz	3,752	2,296	1,890	2,285	2,803	1,589	1,376	1,494
100	U. CA Office of the President	NA	2,164	2,174	2,243	NA	0	0	0
	All other sampled institutions	129,056	123,554	118,562	104,308	87,363	85,981	82,205	69,235

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

i = data point imputed.

NA = not available; institution was not surveyed separately.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$67 million in total and \$66 million in federally financed R&D expenditures in the computer sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2006.

Appendix G: Total and Federally Financed R&D Expenditures in Engineering at Universities and Colleges, Ranked by FY 2006 Total for the First 100 institutions: FY 2003–06

(Dollars in Thousands)

Rank	Institution	Total				Federally financed			
		2003	2004	2005	2006	2003	2004	2005	2006
	All institutions	5,992,925	6,309,877	6,738,061	7,076,182	3,609,819	3,902,961	4,124,621	4,235,935
1	Johns Hopkins U., The ^a	386,412	417,139	430,954	467,230	377,516	410,730	418,846	444,407
2	GA Institute of Technology all campuses	232,971	275,551	285,572	294,466	134,150	159,978	167,523	180,755
3	PA State U. all campuses	183,570	209,900	221,800	235,614	110,675	137,769	142,985	149,236
4	MA Institute of Technology	195,704	200,773	206,567	220,043	134,015	144,287	149,267	164,846
5	TX A&M U. all campuses	150,239	155,464	147,173	161,735	39,809	45,221	53,371	56,189
6	U. TX Austin	120,983	119,301	140,263	152,094	80,074	77,183	79,927	93,513
7	U. MI all campuses	169,041	163,062	154,398	151,656	115,309	115,461	109,615	106,816
8	Stanford U.	140,152	147,216	155,844	148,688	117,498	118,487	122,807	115,675
9	U. CA, Berkeley	152,033	151,395	152,283	147,875	64,345	70,876	65,576	56,280
10	OH State U. all campuses	108,164	110,958	131,921	134,920	31,749	48,279	49,554	44,879
11	VA Polytechnic Institute and State U.	96,512	101,767	112,951	127,349	39,298	39,074	47,963	50,769
12	U. IL Urbana-Champaign	114,986	120,032	125,457	125,371	66,381	69,698	76,794	71,447
13	Purdue U. all campuses	100,174	124,849	121,148	118,109	41,770	43,453	45,171	47,901
14	NM State U. all campuses	65,616	50,582	73,977	104,881	49,091	48,757	59,959	28,366
15	SUNY Albany	23,609	56,484	86,371	102,548	257	1,133	1,571	2,412
16	U. Rochester	58,589	60,464	82,903	99,801	48,369	51,870	71,224	85,329
17	NC State U.	84,442	80,231	81,772	96,066	29,288	34,368	34,210	45,609
18	U. FL	68,343	67,195	80,555	92,963	38,424	43,388	40,621	46,049
19	U. WI Madison	95,530	94,860	92,982	92,933	60,860	61,122	59,727	59,398
20	U. MD College Park	82,446	82,766	88,338	88,321	47,813	49,146	56,512	54,277
21	U. CA, San Diego	66,090	71,132	72,963	83,480	32,582	39,227	38,580	36,983
22	Clemson U.	64,521	63,864	78,417	81,309	35,798	32,098	29,959	30,347
23	U. AZ	50,622	53,542	56,001	80,160	27,725	31,230	26,512	26,188
24	Cornell U. all campuses	63,287	69,046	75,275	77,191	39,147	41,448	45,734	47,959
25	U. CA, Santa Barbara	56,144	58,810	73,812	76,923	32,116	36,130	48,922	48,695
26	U. WA	57,063	70,034	71,696	75,361	44,116	59,124	60,275	59,319
27	AZ State U. main campus	51,532	55,648	50,515	71,479	23,750	25,921	28,693	32,424
28	U. Dayton	51,728	62,763	65,671	65,789	46,659	56,043	57,837	54,635
29	Northwestern U.	54,427	55,297	62,017	64,791	36,610	39,490	43,150	44,630
30	U. CA, Davis	44,857	50,454	56,758	59,204	18,796	20,784	23,597	22,036
31	Carnegie Mellon U.	54,187	55,992	54,469	56,824	44,628	46,239	44,801	44,793
32	UT State U.	70,127	77,996	54,754	55,850	65,374	73,611	51,039	51,990
33	Princeton U.	52,419	52,126	57,952	55,548	31,748	32,973	35,543	35,084
34	U. MN all campuses	50,175	52,923	51,168	55,130	27,299	29,101	25,979	26,797
35	U. CA, Los Angeles	59,498	58,147	55,335	52,088	40,324	39,648	32,944	29,380
36	IA State U.	45,805	48,298	48,153	51,726	22,392	24,710	25,002	26,903
37	U. Southern CA	51,215	54,854	53,863	49,447	40,469	38,444	37,387	33,722
38	U. TN all campuses	39,326	41,228	49,943	48,488	15,458	17,489	21,385	19,584
39	Rensselaer Polytechnic Institute	37,819	41,931	46,969	48,242	22,842	25,602	27,801	27,750
40	SUNY Buffalo all campuses	33,269	34,394	39,663	47,833	19,072	21,143	23,985	23,497
41	MS State U.	59,993	55,133	41,012	47,812	41,932	26,384	25,040	30,992
42	NM Institute of Mining and Technology	17,309	18,023	26,299 i	45,194	7,864	6,435	14,345 i	30,084
43	U. KY all campuses	39,815	43,706	44,346	44,236	16,604	17,861	18,548	19,908

Appendix G: Total and Federally Financed R&D Expenditures in Engineering at Universities and Colleges, Ranked by FY 2006 Total for the First 100 institutions: FY 2003–06

(Dollars in Thousands)

Rank	Institution	Total				Federally financed			
		2003	2004	2005	2006	2003	2004	2005	2006
44	Case Western Reserve U.	30,987	40,268	42,557	40,322	23,547	25,953	22,390	25,617
45	NJ Institute of Technology	45,197	42,288	40,508	39,941	20,459	18,685	21,265	19,505
46	LA State U. all campuses	44,255	43,376	41,303	39,839	16,140	12,723	9,180	7,373
47	U. DE	34,351	36,213	37,008	39,573	27,020	27,706	27,724	31,145
48	Columbia U. in the City of NY	23,705	25,160	30,452	37,522	18,098	20,732	24,662	30,308
49	CA Institute of Technology	40,064	39,480	41,459	36,864	37,024	36,936	38,735	34,531
50	Drexel U.	32,560	34,660	39,569	36,733	22,433	23,693	26,609	24,716
51	U. CO all campuses	31,196	35,329	35,436	36,721	24,476	28,482	27,713	29,544
52	U. South FL	21,551	29,892	32,717	35,778	10,757	15,891	17,026	17,460
53	U. VA all campuses	31,799	34,347	34,472	35,682	23,980	24,822	27,108	29,835
54	U. CA, Irvine	24,509	28,764	33,921	35,222	10,703	13,277	14,385	14,037
55	Duke U.	25,210	28,131	33,932	35,192	18,150	21,202	21,449	23,808
56	U. IA	29,236	32,742	31,707	34,071	11,342	13,595	12,734	13,539
57	U. NE all campuses	27,703	28,109	30,675	33,702	7,473	8,217	12,237	15,769
58	Vanderbilt U.	23,911	30,986	33,207	33,424	19,814	26,132	26,736	26,887
59	U. UT	30,140	27,831	28,886	33,209	17,364	14,945	16,713	20,441
60	Auburn U. all campuses	30,471	30,387	33,685	32,797	17,040	16,544	17,668	18,192
61	U. PA	22,058	25,949	27,645	32,779	14,609	17,408	17,784	20,982
62	FL State U.	25,943	28,942	28,956	32,761	21,098	23,049	23,583	26,979
63	U. CA, Santa Cruz	4,983	16,877	28,366	32,173	2,848	13,278	23,424	27,235
64	U. Central FL	24,572	20,256	27,224	28,886	9,619	9,809	9,456	10,955
65	U. CA, Riverside	12,316	14,082	25,713	28,721	4,044	3,353	14,951	18,279
66	MI State U.	24,177	24,928	26,366	28,519	7,982	8,908	9,945	11,287
67	U. MA Amherst	19,248	23,045	25,838	28,301	7,321	8,553	9,992	10,438
68	U. AL Huntsville, The	21,004	21,335	26,672	28,136	16,145	17,703	21,398	21,756
69	U. MO-Rolla	28,514	28,122	28,728	27,932	14,343	13,694	15,685	16,009
70	U. ND all campuses	20,396	22,444	21,320	27,784	12,399	15,191	13,871	17,074
71	U. Cincinnati all campuses	28,443	26,815	26,177	26,983	13,553	13,457	13,554	12,023
72	Northeastern U.	16,536	16,137	22,529	26,894	9,951	10,259	13,775	16,776
73	MI Technological U.	18,048	22,512	24,151	25,626	11,210	11,722	11,134	10,697
74	Rutgers, The State U. NJ all campuses	33,135	33,838	30,604	25,245	13,977	15,125	11,756	10,479
75	CO State U.	18,653	21,824	24,975	25,088	10,193	14,821	14,615	17,753
76	U. SC all campuses	26,171	25,786	26,308	25,085	16,157	16,066	14,545	16,498
77	WV U.	28,006	28,632	26,933	25,023	19,572	18,799	18,371	17,309
78	Boston U.	21,188	23,212	25,074	24,972	19,796	21,292	23,350	22,783
79	WA State U.	30,276	24,556	25,876	24,591	13,114	13,445	14,341	13,476
80	Lehigh U.	20,332	21,109	26,183	24,017	9,786	12,145	12,849	10,806
81	Old Dominion U.	18,288	22,681	26,428	23,991	12,409	14,270	17,191	16,591
82	U. Houston	24,229	18,974	22,826	23,961	6,968	6,771	6,814	8,162
83	OR State U.	23,596	19,869	21,768	23,907	16,160	13,788	14,898	16,314
84	SUNY Stony Brook all campuses	25,139	24,882	22,114	23,488	10,393	10,431	11,206	10,343
85	U. NH	17,763	20,920	20,983	22,967	8,517	12,768	13,436	14,648
86	Harvard U.	10,894	16,093	21,191	22,851	9,762	14,949	19,287	19,811
87	Rice U.	11,779	17,287	17,969	22,197	8,834	13,053	14,593	16,751
88	Wichita State U.	16,591	23,450	28,691	21,884	7,107	7,925	7,137	9,296

Appendix G: Total and Federally Financed R&D Expenditures in Engineering at Universities and Colleges, Ranked by FY 2006 Total for the First 100 institutions: FY 2003–06

(Dollars in Thousands)

Rank	Institution	Total				Federally financed			
		2003	2004	2005	2006	2003	2004	2005	2006
89	U. AR main campus	12,836	14,543	21,418	21,676	4,804	6,562	8,658	8,004
90	Woods Hole Oceanographic Institution	17,930	17,539	21,044	21,630	14,360	16,817	20,208	20,572
91	U. Pittsburgh all campuses	15,469	17,850	20,254	21,254	10,476	13,209	15,454	14,809
92	Brown U.	20,946	19,384	20,654	21,030	13,827	12,958	13,718	12,545
93	Dartmouth C.	21,597	22,193	20,176	20,807	16,246	16,692	14,494	14,937
94	Southern IL U. Carbondale	9,421	12,125	10,908	19,661	1,173	1,072	1,440	929
95	U. IL Chicago	17,006	18,671	18,567	19,609	7,841	9,326	10,149	10,340
96	U. OK all campuses	19,010	15,759	17,259	19,442	4,981	6,550	6,493	7,594
97	OK State U. all campuses	20,507	20,197	20,641	19,247	10,104	11,139	10,831	11,764
98	U. AK Fairbanks all campuses	11,407	14,275	13,438	19,193	5,914	7,306	9,646	14,979
99	KS State U.	17,903	17,826	17,634	18,837	8,563	8,129	8,370	8,244
100	U. TX Arlington	9,359	11,118	19,612	17,957	4,873	5,603	11,521	11,153
	All other sampled institutions	879,667	870,547	947,074	927,717	492,974	514,616	576,083	567,995

i = data point imputed.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$425 million in total and \$408 million in federally financed R&D expenditures in engineering.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2006.

Appendix H: Federally Financed R&D Expenditures in the Environmental Sciences at Universities and Colleges, Ranked by all FY 2006 Environmental Sciences for the First 100 institutions: FY 2003–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2003	2004	2005	2006				
					All environmental sciences	Atmospheric sciences	Earth sciences	Oceanography	Environmental sciences, nec
	All institutions	1,445,846	1,595,921	1,726,648	1,763,173	406,430	590,869	558,271	207,603
1	U. CO all campuses	61,328	79,182	99,455	84,416	42,240	40,677	27	1,472
2	Woods Hole Oceanographic Institution	70,050	83,639	80,539	81,059	5,511 i	28,392 i	20,590 i	26,566 i
3	U. WA	76,736	71,685	72,716	80,943	19,262	7,575	48,012	6,094
4	U. CA, San Diego	71,454	79,643	76,924	72,956	3,859	14,440	54,657	0
5	U. WI Madison	36,300	43,331	60,035	70,513	62,951	2,698	938	3,926
6	CO State U.	31,928	60,312	65,548	69,441	27,472	41,969	0	0
7	U. AK Fairbanks all campuses	44,858	40,062	49,150	54,550	35,206	6,518	12,826	0
8	Columbia U. in the City of NY	49,381	52,206	58,432	53,940	4,873	249	45,393	3,425
9	U. NH	33,370	38,809	43,379	51,335	13,212	17,396	20,727	0
10	U. HI Manoa	33,925	44,615	48,672	49,973	1,778	12,206	33,885	2,104
11	TX A&M U. all campuses	60,162	43,447	64,192	44,817	3,286	2,702	35,023	3,806
12	U. Miami	36,705	38,590	40,726	39,090	22,161	3	13,060	3,866
13	Johns Hopkins U., The ^a	33,989	36,250	40,230	38,434	7,800 i	2,880 i	12,480 i	15,274 i
14	OR State U.	32,385	32,270	34,674	35,201	1,507	1,851	13,384	18,459
15	Desert Research Institute	17,204	18,473	23,728	27,838	11,314	16,524	0	0
16	PA State U. all campuses	23,646	22,123	23,480	26,000	6,996	12,276	6,728	0
17	Harvard U.	12,803	13,775	23,765	25,271	3,446	3,636	183	18,006
18	MA Institute of Technology	21,920	24,499	24,097	23,717	6,545	8,589	6,639	1,944
19	U. South FL	22,221	21,631	24,623	20,657	470	1,829	18,358	0
20	U. RI	26,524	22,958	18,997	20,220	0	672	19,523	25
21	U. MD Baltimore County	15,871	17,575	15,685	19,163	0	19,163	0	0
22	U. IL Urbana-Champaign	13,144	16,595	17,340	19,022	2,479	15,946	499	98
23	U. SC all campuses	9,481	11,290	11,232	17,948	0	4,108	4,465	9,375
24	C. of William and Mary all campuses	13,398	14,815	15,466	17,625	0	537	17,036	52
25	Hampton U.	10,595	24,587	87	16,791	16,565	0	226	0
26	FL State U.	11,366	13,833	14,801	16,035	8,034	4,229	3,772	0
27	U. NV, Las Vegas	13,476	11,613 i	13,834	15,989	0	15,989	0	0
28	CA Institute of Technology	10,916	11,340	14,232	14,722	0	14,722	0	0
29	U. Southern CA	12,160	14,623	15,438	14,405	0	10,023	2,671	1,711
30	U. OK all campuses	12,299	12,273	13,901	14,226	11,934	2,292	0	0
31	Naval Postgraduate School	10,284	8,931 i	9,558	13,899	6,898	0	7,001	0
32	SUNY Stony Brook all campuses	12,146	14,102	13,606	13,695	0	5,728	7,967	0
33	U. NC Chapel Hill	11,974	12,793	13,672	13,643	0	11,875	1,768	0
34	U. Southern MS	13,882	13,097	13,389	13,456	0	327	13,129	0
35	U. ME	11,466	12,438	8,626	13,410	0	4,168	9,242	0
36	U. TX Austin	10,483	12,434	14,336	12,917	0	10,307	1,567	1,043

Appendix H: Federally Financed R&D Expenditures in the Environmental Sciences at Universities and Colleges, Ranked by all FY 2006 Environmental Sciences for the First 100 institutions: FY 2003–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2003	2004	2005	2006				
					All environmental sciences	Atmospheric sciences	Earth sciences	Oceanography	Environmental sciences, nec
37	U. MD Ctr. for Environmental Science	12,654	13,824	13,853	12,860	0	1,253	11,607	0
38	U. CA, Santa Barbara	11,931	12,743	12,792	12,735	0	2,063	10,462	210
39	Rutgers, The State U. NJ all campuses	11,993	12,875	12,555	11,985	0	812	8,489	2,684
40	U. MD College Park	8,805	9,607	10,236	11,791	3,582	8,209	0	0
41	Princeton U.	11,261	9,982	10,916	11,743	4,283	3,115	0	4,345
42	AZ State U. main campus	10,389	10,980	11,055	11,498	0	11,498	0	0
43	Stanford U.	7,394	12,383	16,881	11,332	0	9,897	1,435	0
44	GA Institute of Technology all campuses	8,214	7,133	6,154	10,973	8,452	1,982	327	212
45	U. CA, Santa Cruz	8,029	11,378	11,270	10,604	0	2,739	6,811	1,054
46	George Mason U.	8,334	9,713	8,840	10,112	10,079	33	0	0
47	San Jose State U.	6,610	7,123	7,692	10,050	600	526	8,924	0
48	LA State U. all campuses	7,277	8,281	8,826	8,683	0	2,435	5,590	658
49	U. CA, Los Angeles	10,745	12,681	10,999	8,569	3,860	2,872	0	1,837
50	U. DE	9,064	9,200	8,669	8,093	0	653	7,440	0
51	Duke U.	6,291	6,757	7,641	7,919	0	1,539	1,165	5,215
52	U. MI all campuses	4,768	4,886	6,093	7,830	0	7,830	0	0
53	NC State U.	5,921	5,417	6,557	7,495	0	0	1,234	6,261
54	U. Central FL	7,374	6,209	7,577	7,398	7,398	0	0	0
55	U. ND all campuses	4,657	5,948	4,570	7,298	2,530	4,587	0	181
56	U. FL	3,750	5,121	6,346	7,224	0	3,553	3,671	0
57	U. MN all campuses	5,858	7,030	6,522	6,928	0	3,290	1,069	2,569
58	U. AZ	7,012	7,401	7,190	6,885	1,664	5,221	0	0
59	U. AL Huntsville, The	5,113	5,117	5,288	6,727	6,727	0	0	0
60	U. NV, Reno	5,844	5,257	6,475	6,510	29	6,278	0	203
61	OH State U. all campuses	5,441	7,192	6,595	6,396	0	6,396	0	0
62	U. NC Wilmington	4,350	5,280	5,802	6,370	0	20	6,300	50
63	Boston C.	453	453 e	5,370	6,288	0	361	0	5,927
64	U. CA, Davis	12,502	10,397	7,572	5,998	218	1,980	862	2,938
65	U. CA, Berkeley	5,342	4,907	5,056	5,935	0	5,935	0	0
66	U. CT all campuses	5,820	5,981	6,752	5,834	0	3	5,831	0
67	MI Technological U.	3,589	4,162	5,522	5,484	0	1,219	0	4,265
68	U. MD Biotechnology Institute	4,641	4,709	5,275	5,460	0	0	5,460	0
69	UT State U.	2,944	2,891	3,235	5,396	4,609	787	0	0
70	U. MA Dartmouth	3,062	3,716	4,767	5,281	0	0	5,281	0
71	U. UT	2,963	4,180	5,325	4,972	2,123	2,849	0	0
72	Brown U.	3,901	3,730	4,136	4,769	0	4,708	0	61
73	WV U.	4,284	4,349	4,713	4,697	0	4,697	0	0
74	U. Chicago	3,977	4,748	4,992	4,638	0	4,638	0	0
75	U. CA, Riverside	4,595	4,238	4,384	4,631	408	2,975	0	1,248
76	U. KS all campuses	2,360	4,109	3,511	4,576	0	4,533	43	0

Appendix H: Federally Financed R&D Expenditures in the Environmental Sciences at Universities and Colleges, Ranked by all FY 2006 Environmental Sciences for the First 100 institutions: FY 2003–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2003	2004	2005	2006				
					All environmental sciences	Atmospheric sciences	Earth sciences	Oceanography	Environmental sciences, nec
77	U. WY	3,964	3,964 e	5,728	4,529	2,938	1,284	0	307
78	IA State U.	3,252	3,857	4,466	4,412	0	4,412	0	0
79	Boston U.	3,303	3,452	3,876	4,352	0	1,911	0	2,441
80	MS State U.	5,314	3,706	3,770	4,230	400	2,314	1,516	0
81	San Francisco State U.	468 i	2,849 i	1,900	4,227	0	2,515	1,368	344
82	U. GA	4,690	3,914	4,644	4,167	0	601	3,566	0
83	Purdue U. all campuses	2,088	3,181	4,021	4,103	1,304	652	0	2,147
84	Jackson State U.	3,336	3,420	4,605	4,074	370	3,704	0	0
85	Cornell U. all campuses	3,211	3,184	3,951	3,984	0	3,564	223	197
86	U. NM all campuses	3,412	3,288	3,976	3,800	496	3,304	0	0
87	FL A&M U.	1,702	2,281	3,247	3,797	0	0	0	3,797
88	Stevens Institute of Technology	1,393 i	7,064	5,154	3,771	207	17	445	3,102
89	Yale U.	2,693	2,949	3,740	3,686	811	2,691	74	110
90	U. CA, Irvine	3,107	3,802	2,995	3,577	0	0	0	3,577
91	SUNY Albany	3,213	4,024	3,358	3,571	3,571	0	0	0
92	FL International U.	1,090	12,208	13,078	3,569	713	2,725	92	39
93	U. WI Milwaukee	1,777	1,685	3,085	3,538	0	242	2,321	975
94	U. VA all campuses	2,426	3,473	3,559	3,517	3,517	0	0	0
95	TX Tech U.	7,241	6,706	4,576	3,487	0	375	0	3,112
96	U. HI Hilo	1,330	873	580	3,473	0	424	816	2,233
97	U. MA Lowell	1,459	1,612	2,272	3,440	0	3,440	0	0
98	Northwestern U.	715	733	1,013	3,408	0	3,408	0	0
99	U. PR Mayaguez Campus	2,899	2,227	3,407	3,260	0	29	3,231	0
100	Washington U. St. Louis	2,795	2,487	3,313	3,169	0	3,169	0	0
	All other sampled institutions	129,626	137,055	155,765	144,748	9,742	86,106	20,842	28,058

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

i = data point imputed.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$21 million in federally financed R&D expenditures in the environmental sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2006.

Appendix I: R&D Expenditures in the Life Sciences at Universities and Colleges, Ranked by all FY 2006 Life Sciences for the First 150 Institutions: FY 2003–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2003	2004	2005	2006				
					All life sciences	Agricultural sciences	Biological sciences	Medical sciences	Life sciences, nec
	All institutions	23,756,641	25,948,068	27,603,777	28,831,208	2,793,682	9,044,278	15,807,740	1,185,508
1	U. CA, San Francisco	642,645	698,712	728,403	770,485	0	44,073	726,412	0
2	Johns Hopkins U., The ^a	550,700	619,835	674,083	702,207	0	187,148	482,051	33,008
3	U. CA, Los Angeles	613,990	562,755	585,436	609,514	0	21,148	588,366	0
4	Duke U.	433,834	427,955	528,719	553,834	0	105,237	445,961	2,636
5	U. PA	451,063	480,121	528,225	546,624	765	183,593	345,668	16,598
6	U. WA	474,742	481,620	485,173	541,524	13,099	94,439	425,425	8,561
7	U. WI Madison	445,773	473,733	488,831	508,034	43,572	169,105	291,087	4,270
8	Washington U. St. Louis	430,570	443,901	477,021	490,846	0	182,243	303,602	5,001
9	U. MI all campuses	432,951	441,349	492,195	481,245	9,865	124,418	273,961	73,001
10	Baylor C. of Medicine	461,763	476,075	458,694	462,375	0	225,128	237,247	0
11	U. Pittsburgh all campuses	354,931	396,405	449,147	458,627	0	14,192	431,979	12,456
12	U. MN all campuses	372,029	382,932	403,919	434,861	71,992	78,536	273,730	10,603
13	U. CA, Davis	364,029	381,707	404,872	425,934	118,236	133,159	174,539	0
14	Cornell U. all campuses	348,401	356,441	376,860	411,148	87,004	90,080	234,064	0
15	U. MD Baltimore	297,271	317,293	304,396	405,260	0	60,789	324,208	20,263
16	U. CA, San Diego	327,752	359,714	381,402	404,236	55	35,479	367,030	1,672
17	U. TX M. D. Anderson Cancer Ctr.	283,543	317,612	344,804	402,469	0	150,997	251,472	0
18	Yale U.	331,443	366,999	374,599	402,060	1,149	135,460	265,451	0
19	U. FL	295,557	311,513	370,708	390,097	139,882	104,077	129,219	16,919
20	Stanford U.	333,147	373,952	392,129	389,093	0	22,016	367,077	0
21	OH State U. all campuses	255,354	288,853	340,909	373,349	58,109	90,631	222,658	1,951
22	Columbia U. in the City of NY	301,110	322,159	363,922	367,877	0	142,100	222,509	3,268
23	Scripps Research Institute, The	NA	307,910	330,170	367,375	0	367,375	0	0
24	U. NC Chapel Hill	304,618	321,080	339,452	349,179	0	174,836	149,437	24,906
25	U. TX Southwestern Medical Ctr. Dallas	276,692	314,403	320,800	333,237	0	146,709	185,811	717
26	Emory U.	305,031	298,183	319,795	330,039	0	67,089	205,771	57,179
27	Case Western Reserve U.	185,237	179,087	268,303	312,695	0	88,087	219,431	5,177
28	Harvard U.	314,500	351,469	324,112	312,303	0	89,924	222,159	220
29	U. AL Birmingham, The	262,742	288,286	297,702	312,118	0	87,652	222,625	1,841
30	Vanderbilt U.	214,272	250,014	275,664	303,452	0	132,937	161,160	9,355
31	Northwestern U.	213,394	250,795	270,379	300,157	0	92,527	194,274	13,356
32	U. CO all campuses	247,305	272,329	282,598	287,983	13	56,331	224,317	7,322
33	U. IA	230,028	247,550	265,701	274,029	0	60,914	176,678	36,437
34	Mt. Sinai School of Medicine	203,853	212,786	225,293	273,216	0	85,388	187,828	0
35	U. IL Chicago	210,330	232,069	239,554	257,615	0	69,725	175,815	12,075
36	U. Southern CA	225,942	233,541	249,108	256,515	0	13,939	230,525	12,051
37	U. AZ	248,857	255,588	278,726	253,309	56,857	74,685	114,520	7,247
38	U. Cincinnati all campuses	211,405	234,726	244,581	251,055	0	68,813	174,176	8,066
39	U. of Medicine and Dentistry NJ	190,763	209,134	239,778	245,771	0	98,308	147,463	0

Appendix I: R&D Expenditures in the Life Sciences at Universities and Colleges, Ranked by all FY 2006 Life Sciences for the First 150 Institutions: FY 2003–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2003	2004	2005	2006				
					All life sciences	Agricultural sciences	Biological sciences	Medical sciences	Life sciences, nec
40	OR Health & Science U.	166,291	204,065	226,827	236,976	0	102,631	117,114	17,231
41	U. Rochester	197,436	218,269	231,559	234,547	0	53,821	173,183	7,543
42	U. KY all campuses	187,045	206,585	214,451	230,681	54,404	67,792	104,072	4,413
43	NY U.	193,182	209,064	223,974	229,797	0	88,581	128,998	12,218
44	IN U. all campuses	210,579	233,402	208,902	227,786	0	82,403	136,878	8,505
45	U. GA	207,739	218,663	222,793	224,426	92,534	90,624	36,938	4,330
46	MI State U.	203,510	203,707	205,932	222,066	91,079	100,132	27,496	3,359
47	U. NE all campuses	178,679	202,657	232,085	221,599	60,769	104,705	44,291	11,834
48	LA State U. all campuses	195,419	223,668	229,138	219,906	63,545	107,481	47,982	898
49	U. Chicago	191,112	198,802	214,274	216,635	0	79,292	135,272	2,071
50	SUNY Buffalo all campuses	170,680	185,181	191,492	212,496	0	57,937	146,759	7,800
51	PA State U. all campuses	175,537	198,726	198,841	200,986	73,884	43,241	83,861	0
52	Rockefeller U.	177,216	177,963	185,329	198,779	0	189,558	9,221	0
53	U. CA, Irvine	155,880	171,927	180,436	194,827	0	101,087	93,740	0
54	U. South FL	139,132	169,407	172,849	193,977	0	17,296	176,401	280
55	U. MA Worcester	148,823	169,090	176,349	191,659	0	61,571	80,343	49,745
56	Yeshiva U.	177,236	183,253	193,104	189,416	0	0	189,416	0
57	TX A&M U. all campuses	160,127	167,704	171,899	189,069	85,587	41,401	62,063	18
58	U. CA, Berkeley	174,915	178,073	183,129	180,737	69,794	57,147	53,796	0
59	Wake Forest U.	128,034	130,677	181,685	178,074	0	489	177,585	0
60	Wayne State U.	170,498	182,077	178,254	177,619	0	41,413	126,007	10,199
61	U. TX Medical Branch	150,479	164,172	171,114	177,365	0	72,399	104,966	0
62	Medical U. SC	150,551	163,179	177,965	175,914	0	57,236	69,373	49,305
63	Purdue U. all campuses	145,624	163,164	165,984	175,631	99,355	46,305	22,367	7,604
64	U. TX Health Science Ctr. Houston	149,294	147,328	152,631	175,154	0	24,351	80,350	70,453
65	MA Institute of Technology	76,045	130,170	165,968	172,631	0	148,428	18,335	5,868
66	U. MO-Columbia	151,772	165,113	166,138	169,710	56,144	48,291	56,758	8,517
67	Boston U.	152,133	164,576	168,421	169,662	0	8,772	159,075	1,815
68	U. VA all campuses	141,784	155,682	162,677	168,222	0	64,536	101,729	1,957
69	U. UT	148,016	154,617	163,694	165,066	0	40,630	94,822	29,614
70	NC State U.	135,298	145,675	145,877	162,953	77,488	76,664	0	8,801
71	Rutgers, The State U. NJ all campuses	136,720	144,974	153,739	154,884	41,272	67,415	26,813	19,384
72	U. CT all campuses	133,867	150,176	156,803	154,635	10,818	70,028	70,089	3,700
73	VA Polytechnic Institute and State U.	109,760	115,882	129,454	150,604	76,771	57,229	10,672	5,932
74	U. TX Health Science Ctr. San Antonio	133,304	137,039	142,375	150,040	0	56,850	90,777	2,413
75	U. Miami	120,716	131,424	143,165	147,260	0	27,251	119,475	534
76	Medical C. WI	108,608	139,235	143,540	147,140	0	46,850	100,290	0
77	U. TN all campuses	126,429	131,621	143,820	141,376	35,084	56,060	47,896	2,336
78	Dartmouth C.	103,120	120,511	129,639	140,264	0	5,316	134,948	0
79	U. KS all campuses	121,019	128,426	135,960	137,286	1,051	75,347	38,640	22,248
80	VA Commonwealth U.	107,759	113,794	125,944	130,067	0	47,756	74,954	7,357
81	U. IL Urbana-Champaign	132,414	131,495	134,291	128,733	49,812	60,838	4,489	13,594

Appendix I: R&D Expenditures in the Life Sciences at Universities and Colleges, Ranked by all FY 2006 Life Sciences for the First 150 Institutions: FY 2003–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2003	2004	2005	2006				
					All life sciences	Agricultural sciences	Biological sciences	Medical sciences	Life sciences, nec
82	WA State U.	107,386	109,290	110,356	124,270	51,153	53,045	7,394	12,678
83	IA State U.	98,658	103,733	106,565	111,494	57,331	38,054	13,197	2,912
84	CO State U.	96,068	96,374	101,279	110,143	31,044	24,262	54,053	784
85	U. NM all campuses	85,772	90,392	108,297	109,570	26	42,293	56,970	10,281
86	U. Louisville	71,379	92,381	105,077	108,833	63	16,925	77,921	13,924
87	OR State U.	95,370	100,349	103,729	108,074	60,383	41,655	4,201	1,835
88	U. AR for Medical Sciences	63,677	74,063	90,987	107,871	0	37,992	67,373	2,506
89	U. VT	94,922	99,972	102,016	107,137	7,744	37,669	49,930	11,794
90	Thomas Jefferson U.	109,083	112,078	107,388	106,986	0	49,272	54,961	2,753
91	Georgetown U.	103,091	111,732	110,052	105,029	0	20,807	81,499	2,723
92	Tulane U.	97,906	107,440	122,618	101,539	0	26,016	23,142	52,381
93	U. OK all campuses	76,789	87,944	97,497	101,346	0	42,569	54,853	3,924
94	Tufts U.	91,883	101,374	102,078	101,279	90	79,566	21,605	18
95	MS State U.	80,613	94,584	97,315	98,183	85,175	5,211	5,407	2,390
96	SUNY Stony Brook all campuses	107,434	116,965	118,250	97,924	0	51,599	46,172	153
97	SUNY Albany	72,593	90,232	102,721	96,729	0	96,729	0	0
98	U. HI Manoa	63,989	99,014	84,326	83,980	15,379	3,287	52,753	12,561
99	Brown U.	65,444	68,879	71,997	82,681	0	31,805	19,740	31,136
100	Rush U.	87,056	86,802	81,032	81,159	0	18,817	60,054	2,288
101	Auburn U. all campuses	73,767	79,811	80,632	80,290	41,407	8,178	14,129	16,576
102	WV U.	59,881	61,925	71,207	79,957	19,272	18,045	38,049	4,591
103	KS State U.	71,803	78,673	80,444	79,617	50,442	28,416	759	0
104	TX A&M U. System Health Science Ctr.	53,382	61,405	70,696	74,132	8	48	74,072	4
105	MT State U. Bozeman	53,672	58,661	70,876	71,686	52,271	17,472	879	1,064
106	U. MS all campuses	54,512	52,366	64,436	64,905	0	9,744	38,306	16,855
107	U. CA, Riverside	61,621	58,891	66,421	64,407	11,080	50,742	2,585	0
108	Uniformed Services U. of the Health Sciences	30,604	89,850	78,608	63,175	0	7,461	55,714	0
109	Medical C. GA	56,398	58,808	67,278	61,174	0	39,610	21,552	12
110	OK State U. all campuses	57,737	58,529	59,077	60,369	33,266	23,209	3,721	173
111	U. MD College Park	60,183	58,758	61,801	60,333	40,904	12,107	0	7,322
112	U. AR main campus	51,878	56,053	56,408	59,420	54,375	3,341	0	1,704
113	ND State U. all campuses	52,693	56,857	56,939	58,219	47,637	3,557	7,025	0
114	Temple U.	42,315	53,739	56,742	56,304	471	20,689	30,320	4,824
115	U. ID	53,644	55,187	53,851	55,712	32,227	15,755	7,700	30
116	U. CA Office of the President	NA	56,382	59,470	54,580	6,353	3,444	44,783	0
117	Clemson U.	47,986	49,788	49,709	52,287	29,125	19,712	3,055	395
118	UT State U.	39,803	45,921	47,663	51,247	35,177	9,586	6,286	198
119	U. WY	27,752	27,752 e	33,885	51,003	22,306	19,512	8,940	245
120	U. TX Austin	43,886	44,309	48,211	48,983	189	29,550	18,607	637

Appendix I: R&D Expenditures in the Life Sciences at Universities and Colleges, Ranked by all FY 2006 Life Sciences for the First 150 Institutions: FY 2003–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2003	2004	2005	2006				
					All life sciences	Agricultural sciences	Biological sciences	Medical sciences	Life sciences, nec
121	Drexel U.	31,036	35,854	41,882	48,341	0	26,525	20,073	1,743
122	U. NV, Reno	45,815	48,236	52,114	47,284	13,232	25,448	8,387	217
123	Charles R. Drew U. of Medicine and Science	49,888	51,994	43,231	47,188	0	0	47,188	0
124	U. MD Biotechnology Institute	34,615	37,073	44,838	47,012	11,915	28,938	0	6,159
125	AZ State U. main campus	32,025	29,588	45,181	46,523	998	40,756	3	4,766
126	St. Louis U. all campuses	39,869	39,869 e	45,844	46,044	0	16,246	29,626	172
127	George Washington U.	41,984	42,195	44,412	44,856	0	12,637	32,219	0
128	CA Institute of Technology	36,353	44,270	44,305	44,259	0	44,259	0	0
129	U. MA Amherst	33,195	34,791	37,850	42,797	19,183	17,996	3,191	2,427
130	Southern IL U. Carbondale	34,031	32,716	36,055	40,662	8,569	8,116	22,476	1,501
131	U. SC all campuses	41,565	38,926	39,742	40,297	0	10,435	29,472	390
132	NM State U. all campuses	25,484	25,766	29,198	39,424	33,393	5,166	0	865
133	Princeton U.	33,738	38,198	41,607	38,653	0	38,653	0	0
134	U. PR Medical Sciences Campus	31,124 i	34,092	35,809	38,424	0	0	38,424	0
135	SUNY Upstate Medical U.	25,931	32,090	34,931	37,181	0	9,562	27,619	0
136	U. ME	23,116	31,107	26,774	37,181	23,481	11,750	42	1,908
137	Loyola U. Chicago	35,556	34,145	36,593	35,999	0	15,527	19,250	1,222
138	U. MT-Missoula, The	28,130	33,350	36,797	35,129	9,495	13,073	12,157	404
139	NY Medical C.	30,492	33,521	32,460	34,397	0	25,798	8,599	0
140	U. AK Fairbanks all campuses	25,521	29,193	29,679	33,673	14,827	18,846	0	0
141	Eastern VA Medical School	32,801	33,798	33,721	33,013	0	6,399	26,614	0
142	Meharry Medical C.	25,427	27,507	29,105	32,878	0	28,588	4,290	0
143	Loma Linda U.	26,227	29,648	29,898	32,234	0	12,511	19,450	273
144	SUNY Health Science Ctr. Brooklyn	30,680 i	30,207 i	29,732	31,064	0	11,578	19,486	0
145	Wright State U. all campuses	20,531	21,437	25,393	30,574	0	3,301	26,441	832
146	FL State U.	26,507	32,559	29,859	30,403	0	18,249	8,232	3,922
147	U. DE	23,301	25,244	26,600	28,596	18,248	5,490	0	4,858
148	Morehouse School of Medicine	27,154	33,317	30,652	28,378	0	8,737	19,641	0
149	Brandeis U.	24,747	27,311	29,005	27,465	0	27,465	0	0
150	SD State U.	22,702	25,363	26,556	27,454	17,830	3,985	250	5,389
All other sampled institutions		1,063,117	1,155,641	1,247,356	1,293,396	197,624	674,052	302,963	118,757

e = estimated; data were not provided by institution, prior-year data used or current-year estimates were reported; i = data point imputed; NA = not available; institution was not surveyed separately.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$20 million in total R&D expenditures in the life sciences.

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 2006.

Appendix J: Total and Federally Financed R&D Expenditures in the Mathematical Sciences at Universities and Colleges, Ranked by FY 2006 Total for the First 100 Institutions: FY 2003–06

(Dollars in Thousands)

Rank	Institution	Total				Federally financed			
		2003	2004	2005	2006	2003	2004	2005	2006
	All institutions	427,987	448,491	494,533	530,226	294,721	317,869	346,287	372,621
1	George Washington U.	17,960	25,499	33,307	40,151	17,073	24,328	31,516	38,015
2	Johns Hopkins U., The ^a	26,304	28,727	27,874	27,163	25,310	28,345	25,946	26,529
3	U. TX Austin	15,386	14,454	18,672	21,715	11,688	10,608	11,698	12,471
4	U. TX M. D. Anderson Cancer Ctr.	14,720	14,950	17,543	21,675	4,256	4,799	4,963	5,553
5	OH State U. all campuses	8,518	6,827	7,884	13,362	3,113	4,543	5,132	8,201
6	NC State U.	12,545	14,649	15,818	12,098	5,567	6,874	8,033	6,110
7	PA State U. all campuses	6,580	8,348	15,718	10,571	4,327	5,466	11,081	7,005
8	Rutgers, The State U. NJ all campuses	9,520	9,787	9,747	10,389	5,221	5,335	5,078	5,184
9	TX A&M U. all campuses	9,393	9,180	9,323	9,786	8,101	7,696	7,560	8,223
10	IA State U.	7,194	8,754	10,322	8,588	2,791	3,725	5,239	4,577
11	Brown U.	6,395	6,520	7,351	8,335	4,107	3,666	4,033	4,442
12	U. MN all campuses	5,909	5,963	7,137	7,901	4,257	4,159	4,993	5,517
13	NY U.	7,392	7,208	7,829	7,699	6,742	6,603	7,662	6,783
14	Stanford U.	5,807	5,614	6,630	7,627	5,317	5,088	5,996	7,068
15	U. CA, Berkeley	6,417	6,731	7,129	7,373	4,952	5,676	5,417	5,763
16	U. Southern CA	3,221	4,157	5,530	7,306	2,400	3,065	4,386	5,419
17	SUNY Stony Brook all campuses	6,402	5,467	5,781	6,871	3,523	3,297	3,015	3,002
18	U. KY all campuses	1,928	4,496	5,884	6,711	1,425	3,657	4,736	5,476
19	Duke U.	1,856	1,841	5,395	6,687	1,530	1,606	4,505	5,553
20	U. CA, Los Angeles	4,991	5,818	5,990	6,604	3,807	4,148	4,899	5,018
21	GA Institute of Technology all campuses	7,653	6,250	6,038	6,196	3,629	2,234	2,612	2,478
22	George Mason U.	3,622	4,038	1,145	6,133	3,383	3,862	1,014	4,791
23	U. WI Madison	4,580	4,803	5,578	6,033	2,810	3,043	3,891	4,238
24	U. GA	5,881	6,033	5,692	5,990	1,368	1,312	1,184	1,160
25	AZ State U. main campus	2,218	1,827	3,578	5,958	1,576	1,467	3,113	3,998
26	U. MD College Park	3,084	5,330	5,228	5,856	1,521	2,417	3,095	3,593
27	Boston C.	12,409	12,409 ^e	4,641	5,822	8,840	8,840 ^e	546	600
28	U. AZ	3,905	5,060	4,852	5,576	3,090	3,821	3,691	4,531
29	U. WA	3,934	4,198	4,253	5,522	3,424	3,868	3,994	5,148
30	U. MI all campuses	4,062	4,053	4,674	5,220	3,085	2,950	3,379	3,975
31	U. FL	6,874	3,915	4,790	4,933	4,193	2,919	3,521	3,205
32	MI State U.	3,099	3,492	4,305	4,757	2,210	2,753	3,145	3,310
33	Princeton U.	4,286	4,072	4,142	4,596	2,886	2,556	2,571	3,226
34	U. NE all campuses	2,735	2,781	3,885	4,411	1,000	895	1,353	1,575
35	MA Institute of Technology	5,348	5,036	4,268	4,372	4,108	3,772	3,451	3,946
36	Purdue U. all campuses	4,009	4,467	4,330	4,360	2,938	3,244	3,097	3,232
37	Naval Postgraduate School	3,380	3,111 ⁱ	4,268	4,323	3,380	2,935 ⁱ	3,643	4,228
38	CO State U.	1,930	3,012	2,949	3,991	1,268	2,565	1,867	3,272
39	Rice U.	3,558	3,619	3,591	3,956	3,486	3,514	3,278	3,389
40	U. Chicago	3,361	4,726	4,836	3,889	3,045	4,382	4,609	3,698
41	U. CA, Davis	2,158	2,648	3,142	3,827	1,727	2,139	2,608	3,122
42	Cornell U. all campuses	3,146	3,713	4,015	3,744	2,442	2,589	3,072	2,964
43	U. CA, San Diego	2,672	3,355	3,841	3,715	1,673	2,463	2,773	2,538
44	U. PA	2,329	2,948	3,485	3,642	2,216	2,642	3,153	3,124
45	IN U. all campuses	3,350	3,771	2,685	3,490	1,959	2,275	2,440	2,422

Appendix J: Total and Federally Financed R&D Expenditures in the Mathematical Sciences at Universities and Colleges, Ranked by FY 2006 Total for the First 100 Institutions: FY 2003–06

(Dollars in Thousands)

Rank	Institution	Total				Federally financed			
		2003	2004	2005	2006	2003	2004	2005	2006
46	U. IL Urbana-Champaign	4,226	3,951	3,770	3,462	2,674	2,584	2,395	2,658
47	U. CA, Irvine	2,103	2,265	3,077	3,315	1,571	1,713	1,974	2,075
48	NJ Institute of Technology	1,693	2,506	3,182	3,287	948	1,130	1,587	1,779
49	Rensselaer Polytechnic Institute	1,633	1,901	2,668	3,036	1,456	1,690	2,339	2,656
50	U. MA Amherst	3,086	2,362	2,519	2,981	1,916	1,584	1,490	1,972
51	Harvard U.	2,102	2,223	2,366	2,895	2,084	2,223	2,366	2,895
52	Clemson U.	2,135	1,698	1,871	2,818	543	500	500	963
53	Rockefeller U.	2,999	2,977	2,287	2,777	570	1,506	1,205	1,407
54	U. SC all campuses	2,238	2,301	2,132	2,688	1,109	1,311	1,339	2,029
55	Carnegie Mellon U.	2,977	3,195	3,472	2,633	2,692	2,966	3,205	2,442
56	U. IL Chicago	5,885	4,669	3,606	2,478	4,267	3,240	2,198	1,698
57	Western MI U.	3,673	2,396	2,404	2,416	2,481	1,827	1,673	1,946
58	OR State U.	1,500	1,412	1,650	2,374	1,265	1,280	1,538	2,250
59	FL State U.	2,302	2,388	2,577	2,350	1,223	1,256	1,664	1,618
60	U. Houston	2,367	1,064	2,147	2,340	1,935	780	1,298	1,263
61	Morgan State U.	1,903	2,140	1,897	2,313	1,903	2,140	1,897	2,313
62	U. Pittsburgh all campuses	1,418	1,753	1,892	2,295	1,345	1,612	1,658	2,071
63	LA State U. all campuses	1,876	1,684	1,823	2,290	450	398	677	904
64	U. NC Chapel Hill	1,496	1,726	2,762	2,276	1,187	1,405	1,668	1,702
65	U. CO all campuses	2,334	2,862	2,348	2,261	1,955	2,307	1,878	1,985
66	VA Polytechnic Institute and State U.	2,357	2,332	2,705	2,222	1,456	1,409	1,731	1,276
67	U. IA	1,454	2,612	2,860	2,177	1,147	2,045	2,199	1,730
68	CA Institute of Technology	1,902	921	1,426	2,165	1,850	921	1,426	2,165
69	Northwestern U.	996	1,460	2,655	2,082	853	1,237	2,263	1,767
70	Boston U.	1,685	1,909	1,964	1,964	1,505	1,723	1,737	1,634
71	TX A&M U. Corpus Christi	1,976	2,870	1,917	1,847	1,841	1,716	1,415	1,646
72	SUNY Buffalo all campuses	1,569	1,932	1,315	1,792	480	902	528	868
73	U. MO-Columbia	1,325	1,233	1,547	1,705	942	834	1,112	1,404
74	Columbia U. in the City of NY	1,439	1,133	1,509	1,676	1,439	1,133	1,509	1,676
75	U. MD Baltimore County	943	819	1,035	1,611	862	729	903	1,306
76	Tulane U.	1,511	2,036	2,302	1,572	1,341	1,622	1,792	1,319
77	Jackson State U.	1,604	1,234	1,330	1,565	1,321	1,123	1,130	1,259
78	MS State U.	1,038	1,457	1,492	1,545	182	294	418	420
79	MI Technological U.	233	773	777	1,523	129	132	233	463
80	U. UT	1,352	1,543	1,592	1,476	1,167	1,254	1,303	1,317
81	U. of Notre Dame	1,274	1,270	1,373	1,452	1,180	1,172	1,260	1,319
82	Rowan U.	359	724	1,027	1,451	359	543	548	1,267
83	San Jose State U.	1,078	1,122	1,169	1,429	127	133	117	269
84	U. VT	1,414	1,515	1,711	1,388	779	1,006	1,061	870
85	Yale U.	1,185	1,049	1,612	1,343	1,082	969	1,086	877
86	Old Dominion U.	927	755	1,576	1,265	760	535	375	505
87	U. NM all campuses	908	1,487	1,439	1,257	849	1,389	1,328	1,168
88	U. AR Little Rock	0	49	705	1,254	0	0	493	207
89	U. PR Mayaguez Campus	464	135	735	1,205	265	62	77	137
90	CA State U. Dominguez Hills	50	1,437	1,413	1,199	0	962	626	752
91	U. MT-Missoula, The	1,018	851	879	1,195	624	764	750	1,130

Appendix J: Total and Federally Financed R&D Expenditures in the Mathematical Sciences at Universities and Colleges, Ranked by FY 2006 Total for the First 100 Institutions: FY 2003–06

(Dollars in Thousands)

Rank	Institution	Total				Federally financed			
		2003	2004	2005	2006	2003	2004	2005	2006
92	Vanderbilt U.	679	962	1,237	1,186	574	892	1,124	1,035
93	U. CA, Santa Barbara	1,513	1,232	1,193	1,153	689	545	731	842
94	U. DE	664	789	590	1,151	557	652	460	873
95	U. MA Dartmouth	1,209	833	945	1,136	1,209	674	945	972
96	Worcester Polytechnic Institute	655	595	1,258	1,136	326	394	1,117	987
97	CA State U. Northridge	743	270	244	1,085	512	229	210	1,000
98	San Francisco State U.	0 i	0 i	74	1,068	0 i	0 i	74	1,068
99	San Diego State U.	1,638	1,167	712	1,052	741	501	40	399
100	U. WI Milwaukee	933	937	1,030	1,049	386	502	749	781
	All other sampled institutions	57,925	55,918	61,660	56,641	36,849	37,278	41,880	39,615

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

i = data point imputed.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$26 million in total and \$25 million in federally financed R&D expenditures in the mathematical sciences.

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 2006.

Appendix K: R&D Expenditures in the Physical Sciences at Universities and Colleges, Ranked by all FY 2006 Physical Sciences for the First 100 institutions: FY 2003–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2003	2004	2005	2006				
					All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
	All institutions	3,276,180	3,546,496	3,704,277	3,823,362	469,905	1,424,307	1,608,120	321,030
1	CA Institute of Technology	125,015	139,631	143,657	148,686	7,147	34,322	107,217	0
2	U. AZ	110,656	124,566	147,092	148,625	128,115	13,734	6,776	0
3	Johns Hopkins U., The ^a	136,074	148,780	146,097	140,183	61,782	12,693	52,986	12,722
4	U. CA, Berkeley	83,187	97,862	120,957	106,207	10,664	27,315	66,078	2,150
5	MA Institute of Technology	96,678	104,868	104,485	98,367	17,219	18,142	53,380	9,626
6	Cornell U. all campuses	78,827	86,225	84,833	89,517	15,443	21,090	44,282	8,702
7	U. TX Austin	73,352	75,345	83,371	85,380	13,571	24,247	44,276	3,286
8	Stanford U.	78,811	89,041	94,093	73,010	0	16,283	9,863	46,864
9	PA State U. all campuses	57,498	59,831	61,961	64,166	8,830	22,652	32,684	0
10	U. CO all campuses	62,588	57,472	58,784	63,594	18,177	19,274	20,899	5,244
11	U. MD College Park	57,257	54,976	60,544	60,990	13,249	8,510	39,231	0
12	U. CA, Los Angeles	72,411	59,270	53,851	59,431	0	18,381	40,109	941
13	Harvard U.	36,178	41,824	47,993	57,415	5,365	33,943	15,369	2,738
14	U. IL Urbana-Champaign	47,967	50,152	52,413	56,693	3,765	25,034	27,894	0
15	U. WI Madison	47,928	51,853	52,715	55,697	5,128	18,348	24,880	7,341
16	MI State U.	50,353	52,277	54,666	55,319	0	12,927	42,392	0
17	FL State U.	48,889	50,839	47,794	53,752	0	10,825	42,902	25
18	SUNY Albany	2,653	30,653	45,404	52,626	0	1,339	778	50,509
19	U. CA, San Diego	42,904	45,849	51,400	49,841	0	21,789	25,283	2,769
20	U. Chicago	36,444	45,684	46,785	49,120	19,477	13,261	10,304	6,078
21	IN U. all campuses	34,322	51,497	36,476	46,233	1,713	19,684	24,777	59
22	SUNY Stony Brook all campuses	29,040	29,737	30,384	43,463	163	9,388	33,912	0
23	U. MI all campuses	37,817	38,783	39,648	40,860	3,032	18,472	15,432	3,924
24	U. HI Manoa	19,576	22,653	29,343	40,300	32,760	1,476	5,875	189
25	Rutgers, The State U. NJ all campuses	30,951	32,900	37,725	39,420	0	23,629	15,791	0
26	TX A&M U. all campuses	32,808	36,942	37,523	38,430	0	22,448	13,301	2,681
27	U. CA, Santa Cruz	33,325	37,630	37,919	37,970	22,102	8,077	7,791	0
28	GA Institute of Technology all campuses	24,290	26,380	29,469	35,570	0	22,837	12,634	99
29	Columbia U. in the City of NY	35,025	36,884	47,824	34,271	5,611	7,755	3,485	17,420
30	U. Central FL	21,364	27,738	26,498	34,009	0	2,017	24,433	7,559
31	U. FL	30,292	33,960	34,350	33,892	3,706	12,828	16,763	595
32	U. WA	33,589	34,917	36,411	33,803	3,115	18,716	11,972	0
33	U. PA	25,291	27,360	32,380	33,236	0	16,459	16,777	0
34	U. CA, Irvine	22,611	22,364	27,105	31,837	0	16,186	15,651	0
35	U. CA, Santa Barbara	27,030	25,236	25,153	30,624	0	7,361	13,341	9,922
36	U. MA Amherst	28,858	32,108	30,336	29,363	6,768	18,146	4,306	143
37	Princeton U.	28,542	31,297	33,237	28,357	4,202	8,915	15,240	0
38	U. MN all campuses	25,690	25,803	26,914	28,001	2,505	14,204	11,292	0
39	OH State U. all campuses	32,998	31,277	31,788	27,687	2,455	12,574	12,267	391
40	U. NC Chapel Hill	21,482	21,524	23,398	26,032	0	21,280	4,752	0
41	U. CA, San Francisco	28,798	29,609	26,041	25,664	0	25,664	0	0

Appendix K: R&D Expenditures in the Physical Sciences at Universities and Colleges, Ranked by all FY 2006 Physical Sciences for the First 100 institutions: FY 2003–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2003	2004	2005	2006				
					All physical sciences	Astronomy	Chemistry	Physics	Physical sciences, nec
42	Northwestern U.	25,858	27,063	26,828	25,473	0	17,258	6,439	1,776
43	Boston U.	24,422	24,437	21,402	24,799	1,127	3,780	7,011	12,881
44	LA State U. all campuses	21,632	20,325	28,230	24,378	0	15,988	8,314	76
45	U. CA, Davis	17,833	24,424	21,533	24,141	0	9,218	6,515	8,408
46	Purdue U. all campuses	21,185	19,563	20,632	22,292	0	13,723	8,269	300
47	NC State U.	21,499	20,885	26,469	22,189	0	7,500	10,938	3,751
48	Yale U.	21,254	20,136	20,533	21,867	1,529	8,865	11,473	0
49	NM Institute of Mining and Technology	2,799	2,390	3,486	21,777	9,679	868	1,803	9,427
50	Vanderbilt U.	13,946	12,777	15,092	20,719	0	6,641	14,078	0
51	U. UT	18,333	18,872	20,030	20,635	0	15,136	5,499	0
52	U. Pittsburgh all campuses	16,654	20,164	21,731	19,109	1,406	12,524	4,811	368
53	U. CA Office of the President	NA	17,713	18,260	19,053	16,736	0	2,317	0
54	AZ State U. main campus	19,896	21,447	23,607	19,051	466	12,840	5,656	89
55	U. of Notre Dame	17,230	19,271	16,528	19,026	0	9,731	9,295	0
56	U. MS all campuses	17,432	17,555	18,720	18,884	0	744	18,140	0
57	U. IA	17,522	16,081	17,611	18,338	1,211	6,228	10,899	0
58	U. SC all campuses	15,099	15,838	14,032	17,956	0	12,627	4,558	771
59	Duke U.	16,630	17,878	18,250	17,594	0	6,216	11,378	0
60	U. NM all campuses	8,793	8,069	11,242	16,955	67	2,683	8,101	6,104
61	Washington U. St. Louis	13,235	13,905	14,731	16,880	0	9,323	7,557	0
62	U. GA	11,820	12,733	13,444	16,439	0	10,437	6,002	0
63	WA State U.	13,497	15,268	15,624	16,213	0	7,296	8,807	110
64	Rice U.	15,469	17,436	18,690	16,089	221	6,871	8,997	0
65	U. TN all campuses	12,382	13,636	17,985	15,961	0	5,441	10,520	0
66	U. VA all campuses	15,315	17,037	17,076	15,556	3,015	6,870	5,671	0
67	U. NE all campuses	12,602	13,548	13,797	15,446	0	5,294	10,152	0
68	MT State U. Bozeman	13,067	13,947	14,252	15,117	0	6,110	9,007	0
69	U. DE	16,221	16,837	17,308	14,558	27	6,763	3,697	4,071
70	ND State U. all campuses	12,668	14,277	13,116	14,355	0	4,596	275	9,484
71	SUNY Buffalo all campuses	15,981	16,751	13,792	14,339	0	11,625	2,670	44
72	VA Polytechnic Institute and State U.	14,552	14,460	14,786	14,150	0	10,828	3,267	55
73	Catholic U. America, The	19,606	18,820	16,332	14,026	0	1,064	5,293	7,669
74	U. NV, Reno	7,955	7,786	10,393	13,952	9	2,795	11,036	112
75	NY U.	8,697	7,725	12,650	13,765	0	6,512	7,253	0
76	Brown U.	10,668	12,924	13,359	13,546	0	6,026	7,520	0
77	Wayne State U.	16,931	15,325	14,320	13,411	0	7,346	2,780	3,285
78	Northeastern U.	11,231	14,081	15,512	13,189	0	6,228	6,961	0
79	U. IL Chicago	13,233	13,534	13,219	12,700	0	6,662	6,038	0
80	NM State U. all campuses	9,337	9,456	12,453	12,290	4,281	5,966	2,030	13
81	U. OK all campuses	15,580	13,057	13,417	12,177	0	7,354	4,823	0
82	U. Rochester	11,878	11,320	11,271	12,137	1,028	3,536	7,573	0
83	Carnegie Mellon U.	13,624	17,471	11,743	12,034	0	4,499	5,680	1,855
84	U. Akron all campuses	11,638	10,685	11,114	11,987	0	11,645	342	0

Appendix K: R&D Expenditures in the Physical Sciences at Universities and Colleges, Ranked by all FY 2006 Physical Sciences for the First 100 institutions: FY 2003–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2003	2004	2005	2006				Physical sciences, nec
					All physical sciences	Astronomy	Chemistry	Physics	
85	CO State U.	10,001	10,230	11,405	11,904	0	8,871	2,966	67
86	U. KS all campuses	8,040	7,817	11,198	11,660	155	6,840	4,665	0
87	MS State U.	5,489	10,566	10,070	11,262	37	7,346	3,871	8
88	U. PR Rio Piedras Campus	2,740	3,426	7,338	11,238	0	10,843	395	0
89	IA State U.	10,606	10,306	11,302	11,010	0	6,154	4,856	0
90	U. AL Huntsville, The	9,704	9,831	8,733	10,891	0	4,859	6,032	0
91	U. TX M. D. Anderson Cancer Ctr.	7,097	8,465	9,041	10,790	0	10,790	0	0
92	Emory U.	11,868	8,774	9,985	10,627	0	9,290	1,337	0
93	Clemson U.	10,055	10,835	11,416	10,376	0	5,392	4,984	0
94	U. OR	8,460	8,280	7,423	10,360	0	3,733	6,627	0
95	U. AR main campus	9,073	10,107	12,096	10,322	0	5,449	4,873	0
96	NJ Institute of Technology	6,876	8,139	9,659	10,274	0	2,149	8,125	0
97	FL International U.	3,467	6,496	7,838	9,907	76	1,495	340	7,996
98	U. Southern MS	8,060	8,320	9,968	9,907	0	9,029	878	0
99	CUNY The City C.	7,356	9,541	10,179	9,800	0	3,129	6,671	0
100	U. KY all campuses	9,126	9,933	10,084	9,630	0	5,867	3,763	0
	All other sampled institutions	563,589	604,926	603,125	631,210	12,771	317,189	260,917	40,333

i = data point imputed.

NA = not available; institution was not surveyed separately.

nec = not elsewhere classified.

^a The Johns Hopkins University includes the Applied Physics Laboratory, with \$110 million in total R&D expenditures in the physical sciences.

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 2006.

Appendix L: Total and Federally Financed R&D Expenditures in Psychology at Universities and Colleges, Ranked by FY 2006 Total for the First 100 Institutions: FY 2003–06

(Dollars in Thousands)

Rank	Institution	Total				Federally financed			
		2003	2004	2005	2006	2003	2004	2005	2006
	All institutions	769,767	782,476	825,925	874,831	553,646	586,789	610,846	628,606
1	U. WI Madison	26,189	29,329	29,796	30,618	21,042	22,945	24,461	24,208
2	PA State U. all campuses	17,220	18,626	22,721	22,776	10,256	11,985	11,847	14,108
3	IN U. all campuses	11,462	12,234	11,152	15,732	7,644	8,089	8,968	9,415
4	FL State U.	6,371	8,574	12,923	15,108	2,804	4,880	9,238	9,042
5	U. CT all campuses	10,898	12,908	15,152	14,625	8,547	10,223	12,123	11,849
6	NY U.	13,380	14,903	14,938	14,589	11,478	12,179	12,256	12,334
7	U. Rochester	11,811	14,732	13,884	14,556	8,056	10,461	10,609	11,469
8	U. CO all campuses	9,560	9,908	11,799	14,041	8,621	8,629	10,561	12,433
9	U. TX M. D. Anderson Cancer Ctr.	7,856	7,966	7,851	13,636	4,113	4,984	5,226	6,637
10	U. GA	13,186	14,005	13,020	13,617	7,935	8,130	7,883	6,921
11	U. IL Urbana-Champaign	11,536	14,265	12,594	13,511	6,564	8,754	8,235	9,115
12	U. MN all campuses	12,518	12,752	13,090	13,165	8,557	8,830	8,835	8,192
13	Rutgers, The State U. NJ all campuses	10,809	11,378	10,773	12,717	4,732	5,318	4,643	4,063
14	U. MI all campuses	10,150	10,823	11,970	12,474	9,348	9,649	10,208	10,451
15	U. SC all campuses	5,377	6,162	6,246	12,118	2,916	4,685	4,324	9,411
16	U. FL	7,945	8,952	11,890	12,103	6,197	7,871	8,200	7,214
17	U. Memphis, The	11,373	11,065	11,658	11,815	6,682	5,756	6,634	5,850
18	GA State U.	9,553	11,634	11,182	11,747	6,658	8,793	8,570	7,902
19	U. NE all campuses	8,543	9,650	9,691	11,663	5,210	5,539	5,346	6,688
20	U. CA, Los Angeles	11,905	11,982	12,773	11,546	8,194	8,990	9,845	9,035
21	Temple U.	11,558	10,338	12,586	10,992	8,113	6,738	8,251	6,543
22	U. WA	8,640	8,863	9,733	10,936	7,897	8,359	8,876	9,929
23	AZ State U. main campus	8,323	8,694	9,565	10,821	7,164	6,872	7,959	8,907
24	Vanderbilt U.	10,519	9,639	9,694	10,606	7,298	7,655	7,701	8,087
25	U. NM all campuses	6,453	5,665	10,304	10,470	4,552	4,631	8,818	8,810
26	U. Houston	3,294	5,618	13,249	9,998	1,673	4,632	6,632	6,318
27	U. CA, Berkeley	11,820	11,531	8,805	9,501	8,065	7,944	5,551	5,758
28	San Diego State U.	9,021	9,020	8,776	9,268	4,924	5,347	4,850	4,952
29	U. TX Austin	7,186	7,560	8,693	9,093	6,572	6,931	7,900	8,141
30	Princeton U.	7,812	9,863	8,871	8,854	5,595	7,519	7,199	6,898
31	San Jose State U.	8,155	9,056	9,787	8,471	8,155	9,056	9,787	8,471
32	U. IA	4,958	5,477	6,971	8,392	4,471	5,056	6,103	7,097
33	U. Miami	9,848	10,194	9,538	8,316	9,530	9,737	8,974	7,936
34	Dartmouth C.	5,579	6,070	5,594	7,967	3,972	3,907	3,601	5,501
35	U. CA, San Diego	6,935	7,369	6,993	7,886	5,529	5,889	5,384	5,628
36	U. KY all campuses	3,158	5,099	6,294	7,870	2,669	3,768	5,253	6,441
37	U. OR	5,897	8,135	6,914	7,854	5,527	7,496	5,971	7,104
38	Yale U.	6,311	8,249	6,873	7,847	4,271	5,666	4,610	4,640
39	MS State U.	1,780	2,099	4,993	7,805	784	1,142	3,288	6,105
40	U. Pittsburgh all campuses	6,878	7,488	8,237	7,775	6,515	6,997	7,233	6,831
41	Boston U.	6,193	6,622	7,439	7,687	6,157	6,601	7,298	7,478
42	Johns Hopkins U., The ^a	4,315	5,846	5,720	7,674	3,954	5,218	5,134	6,391
43	Harvard U.	6,459	8,245	7,525	7,660	6,285	7,769	7,096	7,318
44	U. South FL	14,505	3,164	7,255	7,631	7,460	2,327	4,515	4,496
45	SUNY Stony Brook all campuses	3,715	3,472	5,302	7,475	2,548	2,682	4,271	4,085

Appendix L: Total and Federally Financed R&D Expenditures in Psychology at Universities and Colleges, Ranked by FY 2006 Total for the First 100 Institutions: FY 2003–06

(Dollars in Thousands)

Rank	Institution	Total				Federally financed			
		2003	2004	2005	2006	2003	2004	2005	2006
46	U. AZ	3,820	4,136	4,903	7,329	2,563	2,960	3,398	3,470
47	U. Chicago	5,629	6,346	6,623	7,304	5,611	5,926	6,570	7,212
48	U. MO-Columbia	8,306	7,273	7,647	7,246	3,899	4,941	5,234	4,912
49	U. VA all campuses	6,367	7,287	6,802	6,880	5,864	6,430	5,991	6,229
50	MI State U.	6,633	6,472	6,861	6,818	4,128	3,832	3,456	3,773
51	Stanford U.	6,530	8,602	7,603	6,701	5,245	6,864	6,438	5,713
52	U. IL Chicago	6,195	6,626	6,671	6,562	3,961	4,154	4,481	4,177
53	SUNY Buffalo all campuses	5,120	4,749	5,489	6,291	2,719	2,510	2,911	2,946
54	U. PA	4,978	5,122	6,080	6,267	4,494	4,889	5,537	5,535
55	U. AL Birmingham, The	7,266	7,514	8,414	6,173	6,445	6,920	8,374	6,071
56	U. MA Amherst	5,067	5,077	5,475	5,977	3,558	3,442	3,304	3,511
57	OH State U. all campuses	8,297	6,752	6,947	5,971	5,098	5,020	4,992	4,492
58	Washington U. St. Louis	3,250	4,475	6,356	5,948	2,302	3,030	4,780	4,369
59	Cornell U. all campuses	6,920	5,388	6,464	5,875	2,693	2,462	2,670	2,939
60	U. NC Chapel Hill	6,447	6,065	5,999	5,581	5,552	5,359	4,703	4,704
61	CUNY Hunter C.	5,524	6,133	6,977	5,556	3,788	4,617	5,055	4,290
62	Carnegie Mellon U.	11,111	7,637	5,237	5,454	9,532	6,850	4,648	5,153
63	GA Institute of Technology all campuses	5,008	3,236	5,018	5,382	3,327	1,833	1,979	2,473
64	U. Southern CA	6,258	4,615	4,028	5,341	4,678	3,379	3,099	4,054
65	Tufts U.	3,619	4,042	4,677	4,966	1,385	2,104	2,936	2,682
66	U. of Notre Dame	3,338	3,932	4,029	4,756	2,824	3,615	3,922	4,639
67	Wayne State U.	3,873	3,533	4,705	4,713	2,459	2,214	3,753	2,922
68	Syracuse U. all campuses	2,314	3,155	4,023	4,644	2,298	3,135	3,975	4,555
69	Purdue U. all campuses	5,810	5,494	6,198	4,585	3,365	3,748	4,416	3,534
70	Uniformed Services U. of the Health Sciences	0	149	86	4,541	0	107	66	2,850
71	SUNY Binghamton	4,009	3,890	3,503	4,404	2,279	2,599	2,385	2,680
72	U. CA, Irvine	4,347	3,508	3,960	4,380	3,149	2,122	2,145	2,487
73	U. Louisville	2,736	3,163	3,808	4,348	2,054	2,512	3,088	3,690
74	U. MD College Park	4,203	4,798	4,844	4,310	3,936	4,634	4,566	4,019
75	VA Commonwealth U.	5,101	4,875	5,126	4,161	3,250	3,041	3,617	2,983
76	Teachers C. Columbia U.	3,824	3,983	4,072	4,032	3,153	3,149	3,250	3,734
77	U. CA, Santa Barbara	8,177	3,089	3,266	3,760	5,811	2,560	2,767	3,170
78	Northwestern U.	4,177	4,098	3,755	3,733	3,414	3,312	2,896	2,890
79	U. DE	2,014	3,328	3,817	3,729	1,723	2,853	3,098	2,876
80	U. TX Dallas	157	461	545	3,698	47	67	402	3,153
81	UT State U.	2,272	3,925	3,384	3,637	1,151	2,379	1,746	2,275
82	George Mason U.	2,747	2,751	2,809	3,410	2,122	1,610	2,054	2,069
83	CO State U.	3,312	3,784	4,812	3,330	2,765	3,119	3,856	2,954
84	ND State U. all campuses	1,034	1,333	2,714	3,248	828	1,084	2,437	3,008
85	Columbia U. in the City of NY	3,862	3,865	4,183	3,053	3,471	3,756	4,113	2,870
86	Duke U.	2,965	1,939	2,527	3,004	2,394	1,209	1,514	1,941
87	TX A&M U. all campuses	2,725	2,621	2,940	2,984	2,022	1,820	2,054	2,058
88	Brandeis U.	2,591	3,208	2,765	2,972	2,137	2,709	2,472	2,610
89	U. UT	2,368	2,544	2,897	2,709	1,937	2,257	2,534	2,167
90	Wichita State U.	1,032	1,094	290	2,622	723	718	135	1,699

Appendix L: Total and Federally Financed R&D Expenditures in Psychology at Universities and Colleges, Ranked by FY 2006 Total for the First 100 Institutions: FY 2003–06

(Dollars in Thousands)

Rank	Institution	Total				Federally financed			
		2003	2004	2005	2006	2003	2004	2005	2006
91	Brown U.	2,266	2,605	2,349	2,560	1,558	1,558	1,151	1,290
92	DePaul U.	2,295	2,685	3,034	2,457	2,130	2,570	2,818	1,875
93	TX Christian U.	2,381	2,289	2,467	2,393	2,368	2,287	2,462	2,297
94	Northeastern U.	2,846	3,514	3,901	2,373	1,496	1,939	2,013	1,714
95	Northern IL U.	1,585	1,614	1,732	2,289	702	644	1,070	1,319
96	VA Polytechnic Institute and State U.	2,946	2,813	2,307	2,276	2,006	2,014	1,454	1,196
97	U. MD Baltimore County	1,514	1,503	1,758	2,177	953	596	897	1,115
98	U. OK all campuses	13,669	1,293	1,746	2,161	5,187	821	1,192	1,166
99	U. Denver	2,010	2,296	2,251	2,124	1,947	2,050	2,032	1,937
100	U. AL, The	2,549	2,825	2,472	2,083	2,440	2,800	2,423	1,814
	All other sampled institutions	127,419	127,748	121,765	122,547	91,471	95,030	85,250	84,143

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

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2006.

Appendix M: R&D Expenditures in the Social Sciences at Universities and Colleges, Ranked by all FY 2006 Social Sciences for the First 100 Institutions: FY 2003–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2003	2004	2005	2006				Social Sciences, nec
					All Social Sciences	Economics	Political sciences	Sociology	
	All institutions	1,674,571	1,675,724	1,684,913	1,703,365	338,513	316,569	399,528	648,755
1	U. MI all campuses	108,702	92,602	89,909	89,913	12,906	16,300	16,789	43,918
2	U. MD College Park	70,485	79,872	76,411	82,936	10,885	13,345	2,903	55,803
3	U. CA, Berkeley	51,283	49,840	48,971	49,930	16,455	7,368	7,108	18,999
4	U. WI Madison	39,324	41,686	40,905	41,254	7,029	3,010	13,513	17,702
5	OH State U. all campuses	40,370	32,793	33,921	40,519	20,608	3,029	8,868	8,014
6	U. GA	37,341	39,138	38,593	37,944	13,382	5,200	3,083	16,279
7	U. CA, Los Angeles	41,263	36,461	34,141	35,661	905	305	5,246	29,205
8	MI State U.	26,198	27,952	28,063	34,646	14,510	3,982	2,901	13,253
9	IN U. all campuses	35,476	32,037	24,596	31,397	3,082	8,922	8,446	10,947
10	U. PA	40,272	38,184	36,185	30,809	1,783	11,165	6,970	10,891
11	U. TX Austin	20,251	18,156	29,057	27,880	641	219	5,773	21,247
12	Cornell U. all campuses	21,451	22,395	25,750	26,863	7,106	2,436	2,659	14,662
13	U. NC Chapel Hill	27,095	34,016	34,936	26,700	55	11	9,822	16,812
14	Rutgers, The State U. NJ all campuses	23,365	25,450	27,271	26,160	1,124	7,927	5,065	12,044
15	U. MN all campuses	18,798	20,640	21,164	25,285	8,071	4,834	9,212	3,168
16	PA State U. all campuses	26,511	25,994	24,648	24,533	1,562	4,064	18,443	464
17	Princeton U.	28,647	27,524	29,601	24,469	1,279	21,295	843	1,052
18	U. AZ	20,374	18,212	19,038	23,450	4,561	134	11,785	6,970
19	Duke U.	21,662	26,865	25,728	23,312	2,043	16,069	4,998	202
20	Harvard U.	22,398	17,914	18,364	22,645	6,551	9,514	279	6,301
21	U. IL Urbana-Champaign	28,027	27,373	22,623	21,107	7,554	1,162	771	11,620
22	U. CA, Davis	16,736	17,683	22,262	21,085	5,843	2,885	1,094	11,263
23	AZ State U. main campus	10,468	10,878	13,222	19,957	2,197	2,007	8,109	7,644
24	IA State U.	14,618	17,597	16,384	18,430	3,695	453	14,277	5
25	Purdue U. all campuses	14,781	16,783	17,806	18,354	9,396	242	4,168	4,548
26	U. WA	15,229	34,519	16,232	17,564	59	10,718	3,579	3,208
27	FL State U.	18,050	15,029	14,626	16,481	667	5,951	3,720	6,143
28	Brandeis U.	15,617	12,757	14,264	16,249	161	76	13,376	2,636
29	WA State U.	12,660	11,317	17,735	15,948	9,350	3,041	1,227	2,330
30	U. FL	10,701	10,482	14,457	15,743	8,655	104	1,071	5,913
31	U. NE all campuses	15,189	14,287	14,916	15,450	4,725	2,491	3,895	4,339
32	Columbia U. in the City of NY	9,473	10,196	11,229	14,344	1,127	1,361	11,856	0
33	U. Southern ME	6,668 i	8,853 i	11,038 i	13,221	158	11,213	0	1,850
34	GA Institute of Technology all campuses	10,219	11,010	10,090	13,089	8,583	3,018	0	1,488
35	Brown U.	6,300	7,156	8,380	12,937	2,578	997	6,013	3,349
36	Stanford U.	11,793	10,895	13,864	12,352	1,300	0	1,369	9,683
37	Clemson U.	10,302	11,158	11,207	11,957	2,400	1,759	1,252	6,546
38	George Washington U.	6,907	11,472	9,156	11,842	378	8,463	1,710	1,291
39	U. CA, San Diego	12,929	12,825	12,607	11,690	977	4,611	5,725	377
40	ND State U. all campuses	8,342	9,436	10,806	11,598	4,088	133	125	7,252
41	U. TN all campuses	8,527	11,006	10,980	11,514	8,531	263	2,357	363
42	U. IL Chicago	15,390	15,037	11,748	11,004	99	379	3,199	7,327

Appendix M: R&D Expenditures in the Social Sciences at Universities and Colleges, Ranked by all FY 2006 Social Sciences for the First 100 Institutions: FY 2003–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2003	2004	2005	2006				
					All Social Sciences	Economics	Political sciences	Sociology	Social Sciences, nec
43	SUNY Albany	11,554	13,158	13,335	10,975	0	4,302	4,730	1,943
44	NY U.	7,988	9,118	8,864	10,832	1,711	5,864	3,257	0
45	U. MO-Columbia	14,185	14,648	12,346	10,657	8,283	13	440	1,921
46	GA State U.	11,587	10,447	10,750	10,421	7,759	681	93	1,888
47	U. KS all campuses	9,135	9,314	9,459	10,417	632	1,811	5,918	2,056
48	NC State U.	8,508	7,265	7,299	10,406	4,902	103	3,993	1,408
49	U. CA, Irvine	9,826	9,303	10,979	10,248	38	5,072	748	4,390
50	U. MA Boston	7,860	8,630	10,236	10,114	78	675	369	8,992
51	TX A&M U. all campuses	5,384	7,937	8,759	9,617	2,770	1,301	1,082	4,464
52	U. SC all campuses	7,899	7,715	7,391	9,586	1,623	2,876	879	4,208
53	U. South FL	4,318	3,567	5,158	8,868	1,049	1,563	4,303	1,953
54	Georgetown U.	10,870	10,649	9,978	8,708	112	7,991	0	605
55	Carnegie Mellon U.	10,037	11,799	10,569	8,656	2,000	2,339	470	3,847
56	U. Memphis, The	7,043	9,193	9,820	8,642	4,001	304	2,335	2,002
57	U. CO all campuses	11,195	9,923	10,031	8,288	831	806	3,682	2,969
58	VA Polytechnic Institute and State U.	6,399	6,501	8,399	8,278	1,799	2,257	462	3,760
59	Northwestern U.	10,602	9,450	9,292	7,936	1,402	4,605	1,027	902
60	Boston C.	5,610	5,610 e	7,145	7,892	3,071	2	671	4,148
61	U. KY all campuses	9,201	7,889	6,939	7,870	2,716	1,531	583	3,040
62	U. Baltimore	ne	ne	7,754	7,856	486	2,816	1,675	2,879
63	U. ME	3,876	4,772	2,673	7,731	30	0	252	7,449
64	U. Southern CA	8,882	11,347	10,037	7,715	227	1,899	1,841	3,748
65	U. CA, Santa Barbara	11,918	11,807	12,064	7,565	154	111	272	7,028
66	U. OK all campuses	15,728	8,549	8,146	7,334	506	1,932	2,115	2,781
67	LA State U. all campuses	10,375	10,171	10,677	7,265	3,622	464	1,630	1,549
68	TX Tech U.	7,240	7,057	7,825	7,176	2,509	1,774	1,620	1,273
69	George Mason U.	8,193	9,402	10,151	7,122	2,000	4,042	660	420
70	MA Institute of Technology	6,131	6,195	6,945	7,098	2,731	3,051	180	1,136
71	San Diego State U.	5,883	5,004	6,422	7,038	471	1,679	951	3,937
72	U. of Notre Dame	3,271	4,531	4,288	6,793	132	1,320	4,032	1,309
73	U. HI Manoa	5,876	7,407	5,698	6,740	68	9	75	6,588
74	U. DE	5,566	6,313	6,394	6,567	1,281	3	3,718	1,565
75	Portland State U.	7,689	7,689 e	10,590	6,488	43	1,038	574	4,833
76	U. CT all campuses	8,002	6,864	7,813	6,352	1,626	2,033	2,275	418
77	U. MD Baltimore County	3,082	4,290	7,425	6,226	30	2,174	1,645	2,377
78	U. IA	5,364	5,240	5,511	6,214	212	2,562	731	2,709
79	U. NM all campuses	11,720	12,512	4,905	6,108	649	913	1,281	3,265
80	U. WI Milwaukee	7,622	7,284	6,247	6,071	507	21	1,141	4,402
81	Wayne State U.	6,079	6,425	5,923	6,028	43	77	1,259	4,649
82	Washington U. St. Louis	4,674	4,049	4,999	5,985	0	594	5,170	221
83	U. TX M. D. Anderson Cancer Ctr.	187	463	2,817	5,666	0	0	5,666	0
84	Cleveland State U.	5,583	6,387	5,227	5,623	0	58	56	5,509
85	U. Chicago	2,384	3,328	5,249	5,361	513	1,781	507	2,560

Appendix M: R&D Expenditures in the Social Sciences at Universities and Colleges, Ranked by all FY 2006 Social Sciences for the First 100 Institutions: FY 2003–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2003	2004	2005	2006				
					All Social Sciences	Economics	Political sciences	Sociology	Social Sciences, nec
86	OK State U. all campuses	8,559	7,519	6,140	5,260	2,863	201	459	1,737
87	SUNY Binghamton	3,718	3,990	5,554	5,129	304	405	3,999	421
88	Johns Hopkins U., The ^a	5,053	3,167	4,875	5,051	580 i	53 i	3,231 i	1,187 i
89	U. OR	3,458	4,192	4,366	5,037	931	1,758	210	2,138
90	U. of the VI	331 i	1,811	4,638	4,950	0	0	0	4,950
91	MS State U.	5,050	6,580	6,098	4,948	320	657	987	2,984
92	U. TX San Antonio	1,900	2,066	3,470	4,861	313	44	2,043	2,461
93	U. NH	5,984	4,299	4,367	4,846	771	58	3,003	1,014
94	U. Akron all campuses	5,236	5,342	4,906	4,810	11	133	4,647	19
95	FL International U.	8,568	13,846	16,708	4,600	41	259	4,300	0
96	U. Houston	9,802	2,403	4,905	4,510	110	0	4,400	0
97	Tufts U.	4,599	5,956	8,419	4,472	232	3,181	0	1,059
98	Teachers C. Columbia U.	4,236	3,641	4,059	4,320	2,065	0	0	2,255
99	U. CA, Santa Cruz	4,043	3,666	3,443	4,266	689	84	816	2,677
100	KS State U.	4,227	3,844	3,943	4,241	2,843	55	266	1,077
	All other sampled institutions	275,089	258,720	243,609	235,309	46,764	34,778	63,200	90,567

e = estimated; data were not provided by institution, prior-year data used or current-year estimates were reported; i = data point imputed; 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 \$78,000 in total R&D expenditures in the social sciences.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2006.

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2006 Non-S&E Fields: FY 2004–06 and by Subfield for FY 2006

(Dollars in Thousands)

		2006										
Rank	Institution	2004	2005	All Non-S&E fields	Business and management	Communications, Journalism, and Library Science	Education	Humanities	Law	Social work	Visual and Performing Arts	Other
	All institutions	1,587,263	1,748,738	1,879,573	247,500	84,670	817,203	213,690	68,469	89,525	45,934	312,581
1	U. WI Madison	66,247	77,623	72,892	17,501	2,662	30,120	18,869	1,173	459	84	2,024
2	Harvard U.	35,303	51,023	53,831	0	103	9,322	597	2,379	0	11	41,419
3	Purdue U. all campuses	40,195	42,852	47,468	15,925	404	8,101	2,039	0	0	120	20,879
4	U. TX Austin	38,507	42,132	45,560	4,018	4,149	22,719	352	90	3,694	236	10,302
5	OR State U.	36,915	37,689	38,087	0	87	886	0	0	0	0	37,114
6	Brown U.	19,376	24,657	37,784	20	7,506	13,810	11,961	0	0	2,876	1,611
7	U. MI all campuses	33,879	34,817	37,041	7,544	387	17,838	2,232	1,668	6,515	658	199
8	U. FL	11,603	33,487	34,258	2,237	2,667	3,597	2,144	203	0	194	23,216
9	MI State U.	22,728	28,072	30,748	3,137	1,798	18,636	1,945	0	140	159	4,933
10	U. WA	NA	NA	30,701	0	10	10,284	3,981	325	15,544	557	0
11	U. CA, Los Angeles	NA	NA	29,859	6,621	550	15,982	4,846	1,307	0	553	0
12	Northwestern U.	23,074	26,284	29,797	19,574	1,995	4,131	849	2,728	0	520	0
13	U. Southern CA	22,950	25,068	25,523	856	5,561	5,237	4,707	1,443	5,321	2,398	0
14	FL State U.	33,751	35,110	24,224	998	623	18,978	920	619	1,546	540	0
15	IN U. all campuses	17,605	9,341	23,208	5,671	4,336	6,659	37	341	153	1,778	4,233
16	MA Institute of Technology	17,970	16,265	22,595	14,866	87	5,275	1,179	0	0	208	980
17	George Washington U.	18,729	22,690	21,949	190	0	19,313	1,273	1,173	0	0	0
18	FL International U.	9,179	11,042	21,130	1,070	2,155	8,040	2,710	0	6,152	668	335
19	U. PA	22,159	22,404	20,391	2,750	2,605	11,219	390	548	2,879	0	0
20	U. CA, Santa Cruz	NA	NA	20,332	0	13	17,885	1,654	0	0	780	0
21	NY U.	0	33,816	19,858	2,840	761	7,688	818	2,466	641	176	4,468
22	U. GA	21,081	20,661	18,920	115	737	9,966	2,528	1,692	0	3,882	0
23	U. South FL	33,403	17,391	18,863	1,891	2,412	11,067	67	0	2,960	296	170
24	U. KS all campuses	13,248	18,180	18,821	321	159	16,166	1,199	38	659	279	0
25	Southern IL U. Edwardsville	20,210	19,031	18,720	1,034	159	16,102	77	0	150	335	863
26	U. IL Urbana-Champaign	27,208	24,969	18,550	1,526	2,649	5,991	2,514	490	4,147	764	469
27	VA Commonwealth U.	12,887	15,696	18,492	87	203	9,407	289	0	157	0	8,349
28	U. CA, Berkeley	NA	NA	17,802	697	49	11,546	3,176	1,929	0	405	0
29	U. MO-Columbia	10,042	13,616	15,930	287	1,832	5,056	536	49	358	20	7,792
30	TX A&M U. all campuses	13,515	14,527	15,832	4,682	116	10,687	316	31	0	0	0
31	Old Dominion U.	4,103	9,950	15,391	3,561	9	8,993	1,780	0	0	696	352
32	U. MN all campuses	8,119	12,822	15,041	329	634	7,501	1,766	976	971	474	2,390
33	U. Central FL	29,561	18,997	14,883	2,275	145	9,947	35	1,073	319	551	538
34	U. MD College Park	25,125	23,813	14,745	2,079	1,571	8,123	2,911	0	0	61	0
35	San Jose State U.	14,852	15,738	14,580	3,466	92	3,086	267	0	1,550	156	5,963
36	U. KY all campuses	12,860	13,247	13,688	3,670	832	4,218	526	201	502	364	3,375
37	U. NE all campuses	15,784	14,291	13,680	2,716	299	2,410	5,718	2,149	11	133	244
38	CO State U.	9,329	8,092	13,461	1,278	529	1,142	78	0	0	11	10,423
39	Stanford U.	13,368	13,147	13,067	615	721	10,964	366	194	0	0	207
40	U. Memphis, The	17,353	18,544	12,971	2,179	152	9,004	801	0	0	808	27
41	Rutgers, The State U. NJ all campuses	18,110	14,072	12,825	347	2,173	6,730	647	32	1,526	52	1,318
42	PA State U. all campuses	12,215	12,147	12,452	6,012	1,265	3,079	1,158	271	0	667	0
43	U. Louisville	8,503	11,595	12,373	556	112	2,103	156	217	904	61	8,264
44	Vanderbilt U.	4,299	6,708	12,133	24	1,307	10,056	696	0	0	8	42
45	Johns Hopkins U., The ^a	0	14,634	12,089	0	0	0	12,089	0	0	0	0
46	GA State U.	10,746	11,389	11,934	1,530	67	5,155	726	845	1,385	269	1,957
47	U. MS all campuses	8,782	9,437	11,558	11	0	297	621	1,191	0	1	9,437
48	U. WI Milwaukee	9,114	10,226	11,186	2,725	406	5,140	1,265	0	377	19	1,254
49	U. CA, Riverside	NA	NA	10,783	36	0	5,545	2,725	0	0	30	2,447
50	U. HI Hilo	6,247	7,057	10,721	0	21	5,459	0	0	89	0	5,152
51	U. TX El Paso	10,266	11,160	10,721	142	805	7,861	1,193	1	0	5	714
52	OH State U. all campuses	33,180	34,360	10,683	210	1,282	4,829	1,393	463	0	483	2,023
53	U. Cincinnati all											

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2006 Non-S&E Fields: FY 2004–06 and by Subfield for FY 2006

(Dollars in Thousands)

Rank	Institution	2006										
		2004	2005	All Non-S&E fields	Business and management	Communications, Journalism, and Library Science	Education	Humanities	Law	Social work	Visual and Performing Arts	Other
	campuses	8,874	10,077	10,665	752	100	3,332	2,571	0	198	3,712	0

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2006 Non-S&E Fields: FY 2004–06 and by Subfield for FY 2006

(Dollars in Thousands)

		2006										
Rank	Institution	2004	2005	All Non-S&E fields	Business and management	Communications, Journalism, and Library Science	Education	Humanities	Law	Social work	Visual and Performing Arts	Other
54	U. AR main campus	7,745	9,836	10,338	878	129	3,938	2,205	973	405	117	1,693
55	U. CT all campuses	3,862	3,210	10,090	853	124	2,099	364	164	1,234	130	5,122
56	Polytechnic U.	8,952	9,550	9,850	0	0	9,150	700	0	0	0	0
57	U. IA	7,527	8,899	9,812	1,441	440	2,693	2,012	3,153	0	73	0
58	George Mason U.	8,553	14,743	9,787	90	1,430	2,350	888	5,029	0	0	0
59	CA State U. Northridge	17,738	12,499	9,650	2,680	20	6,257	120	0	0	53	520
60	San Diego State U.	10,672	9,712	9,621	2,615	323	2,084	2,153	0	1,613	531	302
61	LA State U. all campuses	4,413	4,908	9,492	1,168	534	780	747	1,042	92	89	5,040
62	U. OR	8,148	8,401	9,449	0	0	9,069	313	67	0	0	0
63	AZ State U. main campus	10,561	10,503	9,441	521	92	4,147	1,071	128	343	2,336	803
64	CA State U. Bakersfield	NA	8,922	9,364	62	125	6,820	496	57	1,804	0	0
65	FL Gulf Coast U.	8,072	8,982	9,200	651	2,090	5,614	0	0	30	0	815
66	MT State U. Bozeman	5,860	8,723	9,106	42	397	2,770	28	0	893	13	4,963
67	U. West FL	2,388	9,317	8,947	5,923	0	3,002	0	22	0	0	0
68	C. of William and Mary all campuses	8,100	7,721	8,788	287	2	7,598	253	632	0	16	0
69	U. LA Lafayette	5,858	7,519	8,119	1,823	261	3,613	1,574	0	125	720	3
70	Stevens Institute of Technology	7,340	8,062	7,752	693	0	7,059	0	0	0	0	0
71	U. AK Anchorage all campuses	NA	0	7,676	2,712	0	1,853	0	142	0	0	2,969
72	U. NC Greensboro	13,118	11,173	7,665	9	0	7,241	367	0	0	48	0
73	U. OK all campuses	5,384	8,773	7,630	293	421	3,980	493	28	0	23	2,392
74	Western MI U.	8,502	7,283	7,465	13	163	6,733	140	0	8	21	387
75	WA State U.	3,407	2,605	7,151	53	1,571	4,704	769	0	0	54	0
76	St. John's U. (Jamaica, NY)	NA	6,671	7,001	0	20	6,910	33	1	37	0	0
77	Princeton U.	10,695	10,343	6,983	0	146	493	6,055	0	0	228	61
78	SUNY Buffalo all campuses	9,563	8,063	6,848	347	208	4,153	366	43	349	0	1,382
79	U. NH	8,250	7,598	6,835	1,299	0	4,998	316	0	171	0	51
80	U. CO all campuses	9,477	6,174	6,812	1,294	145	3,663	69	15	576	0	1,050
81	Fordham U.	377	1,785	6,492	493	139	1,918	1,046	2,805	40	51	0
82	Western IL U.	8,650	7,500	6,400	400	0	6,000	0	0	0	0	0
83	MS State U.	8,208	4,787	6,202	625	268	2,142	589	0	0	160	2,418
84	Wichita State U.	14,577	20,456	6,061	780	1,134	3,973	30	0	19	33	92
85	U. CA, Irvine	NA	NA	6,028	1,254	0	353	4,054	0	0	367	0
86	Boston U.	3,492	4,678	6,017	2,149	0	348	1,084	0	2,000	0	436
87	Naval Postgraduate School	NA	2,890	5,934	4,927	0	1,007	0	0	0	0	0
88	Northeastern U.	NA	6,487	5,834	34	334	2,843	981	447	1,195	0	0
89	IA State U.	6,374	6,303	5,587	1,322	0	3,748	501	0	0	15	1
90	Case Western Reserve U.	3,272	884	5,450	243	0	0	3,063	21	2,123	0	0
91	Kent State U. all campuses	3,571	4,112	5,430	0	565	1,146	596	50	0	0	3,073
92	U. CA, Santa Barbara	NA	NA	5,428	0	82	3,631	1,100	5	0	610	0
93	U. Houston	4,730	7,205	5,322	298	0	4,427	223	321	32	0	21
94	CUNY Graduate Ctr.	4,678	3,975	5,307	0	0	1,480	3,244	0	0	0	583
95	Northeastern IL U.	2,753	5,036	5,270	0	5	4,052	10	0	1,141	45	17
96	Fairfield U.	4,981	5,714	5,173	1,395	119	0	1,677	0	0	403	1,579
97	Clemson U.	6,554	5,135	5,100	186	0	3,132	262	0	0	18	1,502
98	U. Pittsburgh all campuses	4,864	4,010	5,024	98	1	4,622	230	61	0	12	0
99	U. IL Chicago	4,534	4,189	5,004	941	189	3,017	779	0	0	78	0
100	Central WA U.	8,792	8,490	4,830	0	0	689	100	0	0	0	4,041
101	U. NM all campuses	NA	4,168	4,824	11	1,700	2,362	217	500	34	0	0
102	CUNY Hunter C.	3,505	4,051	4,731	0	154	2,065	755	0	1,517	240	0
103	U. NC Chapel Hill	4,046	6,951	4,719	556	1,260	2,377	452	0	0	74	0

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2006 Non-S&E Fields: FY 2004–06 and by Subfield for FY 2006

(Dollars in Thousands)

		2006										
Rank	Institution	2004	2005	All Non-S&E fields	Business and management	Communications, Journalism, and Library Science	Education	Humanities	Law	Social work	Visual and Performing Arts	Other
104	Gallaudet U.	4,507	4,577	4,697	0	0	4,697	0	0	0	0	0
105	Tufts U.	4,975	5,574	4,663	0	508	1,338	2,666	121	0	30	0
106	U. VA all campuses	4,870	5,098	4,624	3	33	3,616	755	0	0	0	217
107	Ball State U.	3,250	2,880	4,553	853	2	2,306	199	0	0	0	1,193
108	GA Southern U.	2,468	3,223	4,520	238	0	4,106	8	0	163	5	0
109	Tulane U.	6,099	4,940	4,431	3,560	0	11	640	154	0	33	33
110	Northern IL U.	1,231	3,548	4,421	2,560	40	61	75	100	93	7	1,485
111	Temple U.	2,627	3,584	4,378	252	0	779	137	2,446	522	224	18
112	Wellesley C.	5,525	5,173	4,376	1,261	68	0	2	0	0	6	3,039
113	St. Joseph's U.	480	3,199	4,342	3,416	4	914	0	0	8	0	0
114	Wayne State U.	7,657	4,669	4,303	555	13	923	730	33	413	52	1,584
115	UT State U.	2,850	2,599	4,265	0	0	3,810	439	0	0	16	0
116	U. NC Charlotte	1,800	4,265	4,193	81	0	2,974	306	0	4	9	819
117	Seton Hall U.	1,602	6,713	4,151	0	0	3,636	170	150	0	0	195
118	U. MA Amherst	3,995	6,610	4,127	661	0	3,049	360	57	0	0	0
119	GA Institute of Technology all campuses	749	1,681	4,061	0	0	0	303	0	0	0	3,758
120	Brigham Young U. all campuses	3,255	3,029	4,040	436	70	1,428	1,862	10	62	172	0
121	U. Denver	4,939	4,810	4,004	0	80	208	0	2,922	794	0	0
122	U. SC all campuses	6,194	7,987	3,887	1,800	339	1,144	158	0	135	311	0
123	Emory U.	3,164	3,489	3,878	0	0	133	1,802	1,943	0	0	0
124	Syracuse U. all campuses	0	0	3,808	980	326	2,081	0	171	5	0	245
125	NM Highlands U.	4,155	4,111	3,725	0	0	3,713	0	0	12	0	0
126	SUNY C. Plattsburgh	3,726	3,931	3,681	103	15	1,854	16	0	149	0	1,544
127	Washington U. St. Louis	3,433	3,796	3,659	759	0	2,696	81	123	0	0	0
128	St. Cloud State U.	1,367	3,610	3,648	5	457	2,436	318	0	431	1	0
129	Claremont Graduate U.	3,460	3,391	3,613	539	0	1,695	566	0	0	0	813
130	VA Polytechnic Institute and State U.	2,042	2,525	3,596	376	60	1,184	0	0	0	1,042	934
131	U. of Notre Dame	4,173	4,300	3,584	372	151	0	1,405	68	0	47	1,541
132	Georgetown U.	5,067	3,350	3,577	8	0	657	2,795	117	0	0	0
133	John Carroll U.	1,819	3,474	3,568	0	0	3,568	0	0	0	0	0
134	Portland State U.	115 e	431	3,545	8	66	2,782	53	0	632	4	0
135	SUNY Albany	4,180	4,873	3,487	0	0	3,370	117	0	0	0	0
136	U. North TX	5,166	4,182	3,466	1,545	543	495	238	0	0	265	380
137	Wabash C.	2,840	3,263	3,423	0	3	0	3,420	0	0	0	0
138	Eastern KY U.	137	828	3,413	168	0	72	0	3,173	0	0	0
139	CA State U. Fullerton	2,999	3,348	3,371	1,593	509	763	50	0	368	35	53
140	Southern Methodist U.	1,697	2,600	3,348	163	0	2,303	129	654	0	0	99
141	Eastern MI U.	3,590	1,110	3,328	87	0	1,628	1,343	0	270	0	0
142	U. Chicago	2,404	2,847	3,256	725	0	0	507	0	1,728	0	296
143	KS State U.	2,088	3,428	3,214	14	278	1,615	110	0	87	26	1,084
144	U. CA, Davis	NA	NA	3,094	104	3	663	203	46	0	2,074	1
145	U. Dayton	2,424	2,733	2,990	93	0	2,447	104	0	0	346	0
146	U. Rochester	2,776	2,941	2,829	66	210	2,259	13	0	0	281	0
147	LA Tech U.	3,516	2,780	2,819	2,120	17	90	309	0	0	283	0
148	Rowan U.	2,603	2,937	2,779	25	2	2,600	109	3	0	18	22
149	Rose-Hulman Institute of Technology	2,143	1,742	2,726	0	0	2,726	0	0	0	0	0
150	Boston C.	0 e	2,144	2,650	249	0	1,560	491	258	0	20	72
151	U. AL Huntsville, The	974	2,729	2,600	2,134	2	78	267	0	0	0	119
152	Rochester Institute of Technology	1,288	3,241	2,596	93	28	2,395	71	0	1	0	8
153	FL A&M U.	13,615	2,106	2,531	490	0	2,041	0	0	0	0	0

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2006 Non-S&E Fields: FY 2004–06 and by Subfield for FY 2006

(Dollars in Thousands)

		2006										
Rank	Institution	2004	2005	All Non-S&E fields	Business and management	Communications, Journalism, and Library Science	Education	Humanities	Law	Social work	Visual and Performing Arts	Other
154	U. MD Baltimore County	662	638	2,487	0	0	289	190	0	0	75	1,933
155	TX State U. San Marcos	1,320	1,635	2,462	26	0	453	198	287	0	0	1,498
156	CA State U. San Bernardino	6,212	10,307	2,394	420	195	605	0	215	196	619	144
157	U. CA, San Diego	NA	NA	2,391	2	55	289	489	0	0	1,002	554
158	Southern OR U.	0	2,286	2,323	0	633	1,671	0	0	1	0	18
159	U. North FL	1,861	2,188	2,303	209	0	2,093	0	0	0	1	0
160	Hofstra U.	NA	NA	2,281	0	0	2,236	43	0	0	0	2
161	U. Toledo	368	651	2,252	352	15	1,756	25	12	59	33	0
162	U. AZ	3,822	1,665	2,239	1,952	77	36	24	21	8	121	0
163	Brandeis U.	3,259	2,299	2,233	0	0	1,402	0	727	0	104	0
164	Duquesne U.	1,663	2,076	2,170	932	0	429	35	278	0	496	0
165	Bowling Green State U. all campuses	47	796	2,078	104	325	1,579	59	0	0	11	0
166	Western WA U.	1,605	2,328	2,073	447	92	737	401	0	218	150	28
167	Tarleton State U.	1,832	1,723	2,059	14	0	174	22	0	1	0	1,848
168	U. TX San Antonio	778	1,177	2,058	304	0	1,547	175	0	0	32	0
169	U. of the Pacific	229	1,146	2,048	427	243	265	169	761	52	131	0
170	Clark U.	2,318 e	1,930	2,045	0	0	2,045	0	0	0	0	0
171	VA State U.	0	177	2,031	0	0	1,459	0	0	0	0	572
172	IL Institute of Technology	1,416	2,583	2,008	41	0	837	236	894	0	0	0
173	Yale U.	836	1,188	2,005	0	0	0	802	1,203	0	0	0
174	U. DE	1,595	2,252	1,997	405	0	1,511	81	0	0	0	0
175	U. Miami	1,472	1,629	1,975	0	0	1,841	0	0	134	0	0
176	Baylor U.	1,930	2,051	1,972	73	14	88	1,169	0	426	41	161
177	Shaw U.	2,023	1,895	1,920	0	115	1,700	80	0	0	25	0
178	WV U.	2,342	1,876	1,912	2	227	196	936	3	0	35	513
179	U. MO-Rolla	5,146	2,495	1,890	1,063	1	0	1	0	0	0	825
180	Pace U. all campuses	1,896	1,669	1,886	562	0	6	262	399	0	0	657
181	U. MO-St. Louis	2,255	1,966	1,874	280	2	988	131	0	139	5	329
182	Cornell U. all campuses	1,539	2,007	1,790	468	8	0	1,238	39	0	6	31
183	U. TX-Pan American	562	1,778	1,785	17	0	1,148	129	491	0	0	0
184	U. MA Lowell	1,772	1,893	1,748	57	0	339	0	222	0	24	1,106
185	C. Charleston	595	1,458	1,735	401	63	336	891	0	0	42	2
186	CUNY Baruch C.	936	1,795	1,735	5	2	2	280	0	0	0	1,446
187	U. NV, Reno	1,365	1,727	1,726	551	18	329	601	219	8	0	0
188	Duke U.	1,123	1,606	1,703	7	0	312	741	507	122	14	0
189	Teachers C. Columbia U.	3,246	2,627	1,702	0	0	1,702	0	0	0	0	0
190	U. Southern MS	950	885	1,682	37	0	1,481	88	0	76	0	0
191	U. TN all campuses	1,920	2,672	1,643	15	0	69	776	164	213	70	336
192	U. NV, Las Vegas	NA	1,221	1,587	145	108	528	58	13	151	1	583
193	Cleveland State U.	1,204	6,531	1,580	233	85	681	481	13	67	20	0
194	Lehigh U.	NA	2,177	1,577	1	6	1,421	12	0	0	0	137
195	Marshall U.	1,536	1,285	1,572	515	0	501	556	0	0	0	0
196	U. MO-Kansas City	3,240	3,502	1,556	610	10	76	174	0	188	67	431
197	U. UT	1,611	1,441	1,551	810	0	304	336	7	0	94	0
198	NM State U. all campuses	949	1,023	1,537	396	4	244	844	0	0	0	49
199	FL Atlantic U.	38	409	1,497	154	9	540	287	0	0	31	476
200	TX Christian U.	1,575	1,633	1,474	4	32	1,151	26	0	140	121	0
201	MT Tech of the U. MT	838	1,053	1,471	0	0	1,123	0	0	0	0	348
202	SUNY Stony Brook all campuses	5,939	409	1,460	38	84	69	881	0	36	352	0
203	American U.	247	129	1,433	8	548	111	19	747	0	0	0
204	IL State U.	1,278	1,876	1,424	12	0	736	61	0	166	0	449
205	U. ID	1,406	2,118	1,421	0	0	329	33	0	0	0	1,059

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2006 Non-S&E Fields: FY 2004–06 and by Subfield for FY 2006

(Dollars in Thousands)

		2006										
Rank	Institution	2004	2005	All Non-S&E fields	Business and management	Communications, Journalism, and Library Science	Education	Humanities	Law	Social work	Visual and Performing Arts	Other
206	U. AL Birmingham, The	796	1,304	1,405	680	0	702	23	0	0	0	0
207	Western Carolina U.	6,731	27	1,348	362	2	789	0	0	0	0	195
208	Hamilton C. (Clinton, NY)	1,188	935	1,345	0	0	643	382	0	320	0	0
209	TX Tech U.	350	1,375	1,338	0	0	1,214	21	61	0	42	0
210	Tuskegee U.	1,262	1,202	1,331	0	0	1,331	0	0	0	0	0
211	Amherst C.	779	885	1,321	0	162	0	581	0	379	176	23
212	C. NJ, The	NA	NA	1,316	95	58	400	485	0	0	278	0
213	FL Institute of Technology	37	381	1,306	1,202	0	6	17	0	0	0	81
214	West TX A&M U.	1,624	1,110	1,293	933	0	205	0	0	0	0	155
215	U. MA Boston	1,093	1,270	1,291	0	0	591	40	0	613	47	0
216	Smith C.	1,056	1,391	1,262	218	278	253	105	0	182	84	142
217	U. LA Monroe	1,879	0	1,260	0	0	1,080	162	18	0	0	0
218	U. PR Mayaguez Campus	1,700	1,300	1,257	18	0	1,117	0	0	122	0	0
219	Chapman U.	0	0	1,235	1	0	1,005	0	216	0	13	0
220	West Chester U. PA	2,830	3,244	1,224	971	10	76	146	0	21	0	0
221	U. MA Dartmouth	683	1,681	1,218	508	4	444	218	0	0	44	0
222	Calvin C.	846	1,030	1,212	0	117	253	798	0	0	44	0
223	Sam Houston State U.	NA	107	1,183	7	0	95	54	15	0	0	1,012
224	OH U. all campuses	914	1,364	1,167	53	155	52	499	0	108	300	0
225	Boise State U.	NA	6	1,149	106	0	162	0	0	0	0	881
226	Drake U.	800	1,244	1,146	37	0	570	30	482	0	6	21
227	MI Technological U.	NA	1,149	1,119	181	0	136	681	0	0	105	16
228	U. HI Manoa	NA	NA	1,059	12	0	795	230	19	0	3	0
229	Southern IL U. Carbondale	274	326	1,044	0	40	0	312	0	656	36	0
230	U. PR Rio Piedras Campus	654	886	1,014	0	0	408	359	192	0	0	55
231	TX Southern U.	560	448	995	8	0	378	0	0	0	0	609
232	Drexel U.	2,159	5,274	988	26	113	222	0	0	0	163	464
233	San Francisco State U.	NA	353	974	0	0	666	131	0	0	42	135
234	U. VT	450	586	973	230	8	716	19	0	0	0	0
235	U. AK Fairbanks all campuses	1,039	1,106	971	0	43	850	78	0	0	0	0
236	Loyola U. Chicago	1,391	1,325	942	99	0	695	27	15	106	0	0
237	U. Southern ME	NA	NA	926	0	0	926	0	0	0	0	0
238	Lewis and Clark C.	383	510	884	0	0	9	65	810	0	0	0
239	Mercyhurst C.	ne	ne	880	0	1	29	2	0	305	80	463
240	Roger Williams U. Bristol	607	630	872	0	0	458	0	414	0	0	0
241	Worcester Polytechnic Institute	52	57	862	8	6	785	63	0	0	0	0
242	Auburn U. all campuses	914	1,440	854	531	0	124	199	0	0	0	0
243	U. Tulsa	625	900	851	35	41	202	495	78	0	0	0
244	Dickinson C.	1,187	1,452	841	93	0	323	411	0	0	4	10
245	U. IL Springfield	720	920	840	120	0	260	367	0	93	0	0
246	Carnegie Mellon U.	2,623	1,947	832	0	0	0	823	0	0	9	0
247	Northeastern State U.	NA	1,143	830	7	0	177	0	194	292	0	160
248	Simmons C.	594	797	828	0	277	0	0	0	551	0	0
249	Rensselaer Polytechnic Institute	648	350	806	151	0	417	238	0	0	0	0
250	Macalester C.	761	776	794	0	0	11	594	0	0	189	0
251	Eastern WA U.	508	497	779	10	10	260	19	0	470	0	10
252	Sinte Gleska U.	ne	310	759	0	0	336	0	0	340	0	83
253	Catholic U. America, The	1,244	1,265	750	0	3	267	165	151	95	0	69
254	CO State U. Pueblo	300	0	737	32	0	447	164	0	0	0	94
255	ND State U. all campuses	297	237	727	0	174	525	28	0	0	0	0
256	U. ME	1,109	749	714	0	352	271	73	0	0	18	0
257	Wake Forest U.	NA	516	714	313	163	117	45	38	0	38	0
258	Roanoke C.	605	651	713	0	183	46	327	0	0	38	119

Appendix N: R&D Expenditures in Non-Science and Engineering Fields at Universities and Colleges, Ranked by all FY 2006 Non-S&E Fields: FY 2004–06 and by Subfield for FY 2006

(Dollars in Thousands)

		2006										
Rank	Institution	2004	2005	All Non-S&E fields	Business and management	Communications, Journalism, and Library Science	Education	Humanities	Law	Social work	Visual and Performing Arts	Other
259	CUNY John Jay C. of Criminal Justice	698	385	705	0	0	12	47	361	48	0	237
260	CA State U. Los Angeles	166	653	704	0	84	492	80	0	46	0	2
261	Swarthmore C.	601	684	666	0	0	0	666	0	0	0	0
262	U. Northern CO	828	1,030	666	4	0	614	43	0	0	5	0
263	U. Baltimore	ne	4,689	650	350	0	120	0	180	0	0	0
264	CUNY The City C.	2,285	834	640	0	0	456	184	0	0	0	0
265	Nicholls State U.	150	643	637	0	0	637	0	0	0	0	0
266	Bryn Mawr C.	1,753	1,317	635	0	0	2	333	0	243	57	0
267	Central MI U.	295	325	631	135	10	299	117	0	0	70	0
268	DE State U.	NA	497	626	176	0	0	27	0	38	0	385
269	DePaul U.	106	496	624	78	4	18	413	83	0	28	0
270	Manhattan C.	NA	672	617	0	0	617	0	0	0	0	0
271	Air Force Institute of Technology	305	425	611	611	0	0	0	0	0	0	0
272	Marquette U.	330	278	606	11	74	12	49	217	8	0	235
273	U. NC Wilmington	481	814	603	51	0	225	0	0	327	0	0
274	Fisk U.	0	600	600	0	0	500	0	0	0	100	0
275	La Salle U.	228	ne	600	224	3	212	159	0	0	2	0
276	Pomona C.	575	277	597	0	0	0	516	0	0	81	0
277	TN State U.	441	594	597	0	0	597	0	0	0	0	0
278	CUNY Brooklyn C.	1,457	435	594	0	0	6	588	0	0	0	0
279	CA State U. Long Beach	1,309	978	558	0	0	558	0	0	0	0	0
280	U. Richmond	118	619	546	9	146	170	37	139	0	45	0
281	KY State U.	23,467	56	543	0	0	543	0	0	0	0	0
282	U. San Diego	0	239	534	30	0	41	0	128	0	0	335
283	Augsburg C.	395	247	524	0	0	86	0	0	0	0	438
284	Loyola Marymount U.	316	290	513	29	0	41	158	240	4	41	0
285	U. AL, The	295	239	513	217	20	48	57	23	121	23	4
286	CA State U. Fresno	800	22	500	384	0	0	0	0	0	0	116
287	U. Portland	260	383	498	74	1	416	0	0	7	0	0
288	U. San Francisco	372	163	490	46	0	5	23	74	0	0	342
289	Rice U.	757	667	481	142	32	59	248	0	0	0	0
290	East Carolina U.	515	323	478	0	78	344	0	0	4	0	52
291	Andrews U.	280	474	460	0	0	143	306	0	11	0	0
292	SUNY C. Cortland	317	428	450	0	0	450	0	0	0	0	0
293	U. West GA	450	490	450	50	0	400	0	0	0	0	0
294	Wesleyan U.	417	500	449	0	30	157	114	0	0	148	0
295	Black Hills State U.	583	2,590	447	447	0	0	0	0	0	0	0
296	U. Houston-Clear Lake	472	640	445	78	0	16	6	0	0	0	345
297	TX A&M U. Kingsville	322	499	442	0	0	42	0	0	0	0	400
298	U. MT-Missoula, The	1,078	1,110	430	38	337	5	34	0	0	16	0
299	CA State Polytechnic U. San Luis Obispo	466	280	427	76	147	204	0	0	0	0	0
300	U. South AL	NA	0	421	8	0	1	412	0	0	0	0

e = estimated; data were not provided by institution, prior-year data used or current-year estimates were reported; na = not applicable; institution did not exist or did not exist as a separate entity; NA = not available; institution was unable to provide

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.

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.

Although the original table has 453 rankings, with multiple institutions sharing the same ranking in some instances, only the top 300 are being presented here.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2006.

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 2006

(Dollars in Thousands)											
Rank	Institution	HHS R&D Expenditures	Computer Sciences	Environmental Sciences	Life Sciences	Mathematical Sciences	Physical Sciences	Psychology	Social Sciences	Sciences, nec	Engineering
	All institutions	17,052,404	47,488	64,051	15,203,605	78,535	489,745	468,496	287,529	53,509	357,305
1	Johns Hopkins U., The ^a	562,763	0	14,215	519,512	13	4,386	5,990	2,714	0	15,933
2	U. WA	452,379	0	1,970	412,966	742	6,506	9,359	2,664	0	18,172
3	U. CA, San Francisco	447,593	0	0	428,601	0	18,992	0	0	0	0
4	U. PA	403,038	91	0	371,666	0	10,378	5,381	6,781	3,014	5,727
5	U. MI all campuses	396,870	1,039	0	322,290	594	9,669	8,757	42,520	11	11,990
6	Washington U. St. Louis	371,180	238	0	356,161	77	4,336	3,698	3,165	0	3,505
7	U. CA, Los Angeles	358,295	282	0	338,290	698	6,987	7,569	2,849	0	1,620
8	Duke U.	350,179	283	2,603	315,380	1,290	2,713	1,941	14,926	0	11,043
9	U. Pittsburgh all campuses	334,651	237	0	316,417	647	5,779	5,819	1,393	177	4,182
10	Stanford U.	326,036	481	131	289,894	1,313	15,516	5,093	432	0	13,176
11	Harvard U.	310,893	0	9,208	265,350	1,051	25,157	4,841	2,724	0	2,562
12	Yale U.	308,101	435	159	297,823	0	4,269	3,829	357	0	1,229
13	Columbia U. in the City of NY	290,506	60	1,063	270,672	265	3,582	2,225	5,839	0	6,800
14	U. CA, San Diego	285,748	3,177	1,840	249,679	0	15,205	4,215	2,834	613	8,185
15	Case Western Reserve U.	274,915	129	0	263,146	195	1,821	738	1,153	0	7,733
16	U. WI Madison	263,962	538	1	208,662	655	5,456	23,170	13,956	0	11,524
17	U. AL Birmingham, The	263,576	0	0	255,172	171	1,040	5,766	263	0	1,164
18	U. NC Chapel Hill	257,561	3,337	6,184	225,084	51	7,337	3,956	11,612	0	0
19	Vanderbilt U.	254,836	0	0	236,670	168	5,994	7,657	1,219	0	3,128
20	Emory U.	244,567	0	0	238,540	0	4,541	1,374	112	0	0
21	Baylor C. of Medicine	235,532	0	0	235,532	0	0	0	0	0	0
22	U. CO all campuses	233,161	0	22	210,792	48	10,529	7,967	1,694	0	2,109
23	Scripps Research Institute, The	230,523	0	0	230,523	0	0	0	0	0	0
24	U. MN all campuses	217,653	135	54	196,444	86	5,839	7,411	5,272	0	2,412
25	Cornell U. all campuses	211,611	992	0	187,535	247	13,150	1,555	4,161	0	3,971
26	OR Health & Science U.	202,902	7,247	0	195,655	0	0	0	0	0	0
27	MA Institute of Technology	197,636	2,617	0	138,742	0	18,301	763	209	25	36,979
28	Mt. Sinai School of Medicine	192,788	0	0	192,788	0	0	0	0	0	0
29	U. Chicago	185,359	4,347	0	168,185	164	3,346	6,117	3,200	0	0
30	U. IA	180,465	0	103	167,654	417	1,792	6,742	363	0	3,394
31	U. Cincinnati all campuses	176,515	0	0	172,411	21	1,944	192	121	0	1,826
32	Boston U.	175,848	0	0	146,855	532	2,884	6,922	325	6,979	11,351
33	U. Rochester	172,396	919	0	158,927	0	759	10,759	0	335	697
34	U. TX Southwestern Medical Ctr. Dallas	171,605	0	0	171,605	0	0	0	0	0	0
35	U. MD Baltimore	169,964	0	0	169,964	0	0	0	0	0	0
36	U. IL Chicago	167,234	59	0	153,463	62	4,568	2,329	3,852	1,747	1,154
37	OH State U. all campuses	162,443	557	8	148,182	393	2,984	3,785	4,024	40	2,470
38	U. Southern CA	161,609	127	0	147,047	3,147	855	2,355	1,703	217	6,158
39	NY U.	159,349	265	0	143,417	0	2,921	11,793	953	0	0
40	Northwestern U.	155,538	0	0	142,132	193	3,243	1,437	238	1,329	6,966
41	U. TX M. D. Anderson Cancer Ctr.	154,215	0	0	132,968	4,984	5,345	6,227	2,798	0	1,893
42	U. CA, Davis	149,159	0	146	137,273	115	3,560	531	1,506	62	5,966
43	Yeshiva U.	145,216	0	0	145,216	0	0	0	0	0	0
44	U. VA all campuses	139,286	0	0	127,103	0	4,614	4,060	101	0	3,408
45	Wake Forest U.	130,530	0	0	129,082	0	1,242	206	0	0	0
46	IN U. all campuses	129,789	343	0	111,716	0	3,841	8,692	3,236	145	1,816
47	U. of Medicine and Dentistry NJ	128,482	0	0	128,482	0	0	0	0	0	0
48	U. FL	126,404	271	3,168	109,285	2,141	1,798	6,324	366	0	3,051
49	U. UT	125,648	2,781	82	112,064	0	3,968	1,975	166	0	4,612
50	U. CA, Irvine	120,519	1,150	0	107,542	658	4,713	1,787	1,376	0	3,293
51	U. MA Worcester	117,547	0	0	117,547	0	0	0	0	0	0
52	U. AZ	116,081	360	164	107,502	0	3,762	2,224	1,576	0	493
53	U. TX Medical Branch	112,946	0	0	111,938	0	0	0	0	0	1,008
54	U. TX Health Science Ctr. Houston	106,386	0	0	106,386	0	0	0	0	0	0
55	SUNY Buffalo all campuses	103,867	676	0	97,188	0	2,678	2,086	11	0	1,228
56	U. Miami	103,607	0	1,971	91,994	0	0	7,324	1,783	0	535
57	Dartmouth C.	101,580	92	2	95,549	0	665	2,799	50	409	2,014
58	Wayne State U.	97,239	103	0	88,436	0	3,801	2,711	700	0	1,488
59	U. KY all campuses	95,819	93	2	85,605	349	2,187	6,104	272	0	1,207
60	Medical C. WI	95,188	0	0	95,188	0	0	0	0	0	0
61	Rockefeller U.	91,695	0	0	86,939	930	3,826	0	0	0	0
62	U. CA, Berkeley	90,631	0	0	66,628	388	7,956	4,703	4,521	4,177	2,258
63	U. TX Health Science Ctr. San Antonio	89,841	0	0	89,841	0	0	0	0	0	0
64	Medical U. SC	87,028	0	0	87,028	0	0	0	0	0	0
65	PA State U. all campuses	86,980	54	1,421	65,171	35	3,426	8,615	6,308	0	1,950
66	SUNY Albany	86,899	0	0	83,177	0	464	1,030	2,228	0	0
67	Thomas Jefferson U.	77,733	0	0	77,733	0	0	0	0	0	0
68	U. CT all campuses	77,656	386	0	66,278	182	1,350	7,611	1,087	93	669

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 2006

(Dollars in Thousands)

Rank	Institution	HHS R&D Expenditures	Computer Sciences	Environmental Sciences	Life Sciences	Mathematical Sciences	Physical Sciences	Psychology	Social Sciences	Sciences, nec	Engineering
69	VA Commonwealth U.	77,244	0	144	70,978	0	2,805	2,971	131	0	215
70	LA State U. all campuses	77,114	0	0	74,417	0	2,295	401	0	0	1
71	U. KS all campuses	76,111	0	0	71,352	0	1,026	706	2,961	2	64
72	U. NE all campuses	73,691	620	0	60,303	281	784	5,086	3,403	0	3,214
73	U. NM all campuses	70,784	431	0	60,886	0	1,207	7,897	305	29	29
74	Georgetown U.	69,363	0	0	67,232	0	640	983	508	0	0
75	Tufts U.	66,902	0	0	60,617	0	1,584	2,096	40	0	2,565
76	Tulane U.	66,702	0	0	64,778	317	0	152	1,053	0	402
77	Rutgers, The State U. NJ all campuses	65,764	0	76	48,719	4,870	5,890	3,248	2,503	0	458
78	U. AR for Medical Sciences	65,063	0	0	65,063	0	0	0	0	0	0
79	U. VT	64,861	0	0	62,942	76	2	1,642	0	0	199
80	U. South FL	62,085	0	0	57,690	0	1,079	2,083	615	0	618
81	U. IL Urbana-Champaign	61,222	257	819	33,071	39	12,497	6,407	1,586	905	5,641
82	George Washington U.	61,004	135	0	21,711	37,361	19	1,507	101	0	170
83	SUNY Stony Brook all campuses	59,357	184	2	50,888	842	2,969	2,457	2	6	2,007
84	U. OK all campuses	57,650	0	0	53,465	0	1,297	429	1,789	0	670
85	U. TN all campuses	56,224	95	0	54,292	0	166	202	0	961	508
86	CO State U.	53,315	0	0	42,981	0	3,276	2,715	729	3,260	354
87	U. Louisville	52,510	0	0	47,614	129	434	2,958	0	0	1,375
88	U. HI Manoa	49,642	0	556	46,990	0	337	63	884	812	0
89	Brown U.	47,795	601	106	42,432	0	1,242	927	1,527	0	960
90	U. TX Austin	47,661	167	0	25,483	162	9,541	5,480	3,969	335	2,524
91	MI State U.	45,456	26	0	38,227	83	3,076	2,209	1,235	0	600
92	Rush U.	44,526	0	0	43,236	0	0	1,290	0	0	0
93	U. MO-Columbia	44,236	922	0	37,734	141	1,193	4,107	1	0	138
94	Charles R. Drew U. of Medicine and Science	44,053	0	0	44,053	0	0	0	0	0	0
95	CA Institute of Technology	43,902	0	0	28,989	291	11,096	0	462	51	3,013
96	Temple U.	43,162	317	0	35,691	0	633	5,598	135	0	788
97	St. Louis U. all campuses	42,920	0	0	42,605	76	217	0	22	0	0
98	Purdue U. all campuses	41,101	234	0	33,962	161	4,016	0	13	241	2,474
99	Medical C. GA	40,694	0	0	40,694	0	0	0	0	0	0
100	U. SC all campuses	39,811	17	7,004	21,560	400	2,075	5,843	517	2,027	368
101	U. MS all campuses	39,489	0	0	39,290	0	199	0	0	0	0
102	Princeton U.	37,902	0	0	22,678	0	2,198	5,598	6,332	0	1,096
103	U. GA	36,515	164	30	29,038	9	1,273	5,331	650	0	20
104	AZ State U. main campus	34,985	132	0	15,095	193	2,711	7,787	2,852	1,515	4,700
105	TX A&M U. System Health Science Ctr.	34,135	0	1,056	32,644	0	0	72	0	0	363
106	U. PR Medical Sciences Campus	31,020	0	0	31,020	0	0	0	0	0	0
107	TX A&M U. all campuses	30,313	278	888	19,827	1,297	1,676	1,539	817	0	3,991
108	Meharry Medical C.	30,079	0	0	30,079	0	0	0	0	0	0
109	Brandeis U.	28,541	414	0	17,746	0	3,645	2,313	4,423	0	0
110	WV U.	26,256	264	0	24,917	0	314	123	77	0	561
111	NY Medical C.	26,202	0	0	26,202	0	0	0	0	0	0
112	SUNY Health Science Ctr. Brooklyn	25,008	0	0	25,008	0	0	0	0	0	0
113	U. MD College Park	24,529	755	0	9,525	0	2,599	3,311	6,750	0	1,589
114	U. OR	24,424	0	0	17,664	0	0	6,497	263	0	0
115	U. MD Biotechnology Institute	24,216	0	663	23,553	0	0	0	0	0	0
116	Morehouse School of Medicine	23,815	0	0	23,815	0	0	0	0	0	0
117	GA Institute of Technology all campuses	23,688	85	0	4,087	0	2,940	1,680	112	0	14,784
118	Loyola U. Chicago	23,483	0	0	23,021	0	114	315	33	0	0
119	IA State U.	23,301	268	0	11,202	373	1,203	209	9,393	0	653
120	MT State U. Bozeman	22,634	0	0	20,247	19	1,737	0	0	0	631
121	Howard U.	22,542	0	0	22,480	0	0	41	0	0	21
122	U. NV, Reno	22,446	120	0	21,374	0	228	376	2	337	9
123	WA State U.	22,410	0	0	19,908	60	2,092	201	0	10	139
124	U. DE	21,152	4	71	6,926	0	3,801	2,212	2,385	2,721	3,032
125	Carnegie Mellon U.	19,270	2,837	0	3,925	1,013	1,782	1,505	2,900	674	4,634
126	U. of Notre Dame	18,849	0	0	7,083	0	6,664	4,454	234	0	414
127	U. CA, Santa Cruz	18,105	3	946	6,405	0	5,492	590	0	0	4,669
128	San Diego State U.	17,881	0	186	12,219	0	61	4,767	648	0	0
129	OR State U.	17,531	0	0	14,972	0	1,685	25	167	247	435
130	U. Houston	16,179	0	0	8,641	0	377	5,460	1,139	0	562
131	U. North TX Health Science Ctr. Ft. Worth	16,111	0	0	16,111	0	0	0	0	0	0
132	U. CA, Santa Barbara	15,702	0	614	3,055	15	3,139	2,324	65	4,866	1,624
133	FL State U.	15,593	99	4	8,665	470	2,326	2,224	1,636	0	169
134	Uniformed Services U. of the Health Sciences	15,516	0	0	15,516	0	0	0	0	0	0
135	NC State U.	15,247	0	0	10,053	1,630	1,196	0	542	307	1,519

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 2006

(Dollars in Thousands)											
Rank	Institution	HHS R&D Expenditures	Computer Sciences	Environmental Sciences	Life Sciences	Mathematical Sciences	Physical Sciences	Psychology	Social Sciences	Sciences, nec	Engineering
136	U. SD	15,210	0	0	14,979	0	0	231	0	0	0
137	VA Polytechnic Institute and State U.	14,664	321	0	9,449	0	1,255	847	19	0	2,773
138	Loma Linda U.	14,531	0	0	14,327	0	0	0	204	0	0
139	U. MA Amherst	14,520	40	0	8,597	159	2,065	2,777	738	0	144
140	FL International U.	14,223	16	0	7,680	0	1,423	1,110	3,951	0	43
141	CUNY Hunter C.	14,001	0	0	6,829	0	3,526	3,572	74	0	0
142	Medical U. OH	13,942	0	0	13,942	0	0	0	0	0	0
143	U. CA Riverside	13,747	0	0	10,152	0	1,372	1,452	561	0	210
144	U. MO-Kansas City	13,628	0	0	11,825	0	428	1,375	0	0	0
145	Wright State U. all campuses	12,137	96	0	11,718	160	0	163	0	0	0
146	Jackson State U.	12,013	0	1,703	6,448	0	13	613	0	3,236	0
147	UT State U.	12,001	0	3	9,279	0	973	1,707	39	0	0
148	U. TX San Antonio	11,846	0	116	10,204	0	684	54	389	0	399
149	GA State U.	11,835	0	0	6,731	0	1,510	2,581	1,013	0	0
150	Northeastern U.	11,805	56	0	7,448	0	1,994	1,492	0	0	815
151	U. South AL	11,793	0	1	11,572	0	0	220	0	0	0
152	Albany Medical C.	11,094	0	0	11,094	0	0	0	0	0	0
153	U. ID	10,982	0	42	10,982	223	2	15	0	0	0
154	U. RI	10,659	0	0	6,268	0	0	1,401	0	2,805	185
155	U. MT-Missoula, The	10,310	0	18	9,483	0	337	470	2	0	0
156	IL Institute of Technology	10,259	0	0	7,036	0	431	645	0	0	2,147
157	Drexel U.	10,210	0	0	6,999	0	546	880	0	0	1,785
158	Southern IL U. Carbondale	10,003	0	0	9,119	0	108	753	18	4	1
159	U. ND all campuses	9,943	0	0	9,620	0	70	78	0	0	175
160	San Francisco State U.	9,633	0	0	5,272	0	1,550	1,522	1,049	240	0
161	Auburn U. all campuses	9,588	0	0	6,818	0	878	324	690	0	878
162	CUNY The City C.	9,082	0	0	5,843	0	1,184	316	0	0	1,739
163	Rosalind Franklin U. of Medicine and Science	8,904	0	0	8,886	0	0	18	0	0	0
164	U. TX El Paso	8,369	0	0	6,816	72	131	909	0	0	441
165	U. Southern ME	8,073	0	0	1,201	0	0	0	6,872	0	0
166	TX Tech U. Health Science Ctr.	7,891	0	0	7,891	0	0	0	0	0	0
167	Universidad Central del Caribe	7,666	0	0	7,666	0	0	0	0	0	0
168	Boston C.	7,646	0	0	2,025	0	2,731	133	2,757	0	0
169	U. AK Fairbanks all campuses	7,587	0	0	5,094	0	0	274	0	2,219	0
170	Rensselaer Polytechnic Institute	7,570	58	104	1,024	385	1,792	0	0	0	4,207
171	NM State U. all campuses	7,562	85	0	2,319	0	3,701	255	1,080	122	0
172	Syracuse U. all campuses	6,936	92	0	197	0	726	4,470	248	0	1,203
173	East Carolina U.	6,877	0	43	6,564	0	190	80	0	0	0
174	U. WY	6,666	0	0	6,089	0	231	269	0	0	77
175	U. Memphis, The	6,528	0	0	1,591	21	48	1,636	2,977	0	255
176	Rice U.	6,513	0	0	2,010	271	446	463	218	0	3,105
177	OK State U. all campuses	6,425	0	0	5,192	8	44	0	359	48	774
178	U. Central FL	6,186	0	0	989	0	699	0	170	0	4,328
179	FL A&M U.	6,155	0	0	6,084	0	66	0	0	0	5
180	U. TX Dallas	6,152	806	55	876	15	2,044	972	230	0	1,154
181	Eastern VA Medical School	5,940	0	0	5,940	0	0	0	0	0	0
182	Marshall U.	5,699	0	0	5,699	0	0	0	0	0	0
183	ND State U. all campuses	5,648	0	0	1,792	0	1,276	2,541	24	0	15
184	U. Southern MS	5,587	0	1	5,369	0	72	144	0	1	0
185	U. WI Milwaukee	5,495	0	1,013	1,128	12	444	687	1,303	0	908
186	U. PR Rio Piedras Campus	5,354	0	0	1,590	206	2,138	1,300	9	111	0
187	FL Atlantic U.	5,293	0	0	3,811	0	969	479	0	0	34
188	U. Denver	5,021	0	0	1,533	0	1,440	1,936	22	0	90
189	SUNY Binghamton	4,847	0	0	484	0	0	2,611	111	0	1,641
190	Wichita State U.	4,792	0	0	845	0	506	1,638	1,783	0	20
191	Portland State U.	4,778	62	0	2,925	0	65	374	1,352	0	0
192	U. ME	4,478	0	270	938	54	442	420	2,354	0	0
193	NC Central U.	4,472	0	0	3,516	9	0	947	0	0	0
194	Morehouse C.	4,406	0	0	427	0	0	447	3,532	0	0
195	MS State U.	4,147	0	0	2,846	105	182	243	771	0	0
196	Morgan State U.	4,146	0	0	896	2,297	565	0	388	0	0
197	East TN State U.	4,123	0	0	4,041	0	0	82	0	0	0
198	Clemson U.	4,052	0	0	2,078	19	191	0	1,059	0	705
199	George Mason U.	4,030	0	0	2,593	218	0	1,037	182	0	0
200	U. AL, The	4,005	156	1	1,359	0	77	1,814	578	0	20
201	Teachers C. Columbia U.	3,827	0	0	1,552	0	0	2,275	0	0	0
202	Marquette U.	3,817	0	0	2,906	18	224	186	68	0	415
203	U. MA Lowell	3,813	0	0	1,945	0	1	65	210	0	1,592
204	U. LA Lafayette	3,715	0	0	3,715	0	0	0	0	0	0
205	U. AR main campus	3,712	0	0	1,227	0	2,458	10	0	0	17

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 2006

(Dollars in Thousands)

Rank	Institution	HHS R&D Expenditures	Computer Sciences	Environmental Sciences	Life Sciences	Mathematical Sciences	Physical Sciences	Psychology	Social Sciences	Sciences, nec	Engineering
206	U. NH	3,587	0	0	1,382	0	1,874	77	144	0	110
207	Brigham Young U. all campuses	3,500	0	0	1,026	0	1,781	311	0	0	382
208	Tuskegee U.	3,417	0	0	2,313	0	0	0	1,104	0	0
209	Kent State U. all campuses	3,344	0	0	1,580	0	571	1,077	116	0	0
210	CA State U. Los Angeles	3,298	0	0	576	0	2,722	0	0	0	0
211	U. NC Greensboro	3,218	0	0	1,960	0	435	823	0	0	0
212	Wesleyan U.	3,214	0	0	1,999	0	702	513	0	0	0
213	Clark Atlanta U.	3,099	0	0	2,203	0	158	99	0	639	0
214	U. NC Charlotte	3,018	183	0	2,698	0	46	91	0	0	0
215	U. MA Boston	2,972	0	65	765	0	82	1,103	957	0	0
216	CUNY Herbert H. Lehman C.	2,938	0	0	1,140	0	0	1,798	0	0	0
217	Southern Methodist U.	2,900	0	0	1,646	0	107	1,010	30	0	107
218	Hampton U.	2,832	0	0	2,341	0	263	0	0	228	0
219	U. TX Arlington	2,808	0	0	154	0	904	885	245	0	620
220	Northern AZ U.	2,739	0	0	2,660	0	78	0	0	1	0
221	U. AK Anchorage all campuses	2,712	0	0	1,730	0	0	148	834	0	0
222	TX Christian U.	2,684	0	0	203	0	184	2,297	0	0	0
223	Lehigh U.	2,600	0	0	1,770	0	563	267	0	0	0
224	Northern IL U.	2,600	0	0	1,456	0	294	740	91	0	19
225	U. DC	2,590	0	0	509	0	462	0	863	0	756
226	CUNY Brooklyn C.	2,582	598	0	83	0	1,401	500	0	0	0
227	U. Toledo	2,483	0	0	1,466	0	493	96	90	0	338
228	Northeastern OH Universities C. of Medicine	2,479	0	0	2,479	0	0	0	0	0	0
229	Bowling Green State U. all campuses	2,462	0	0	602	0	333	620	899	0	8
230	Oakland U.	2,449	0	0	1,389	0	1,018	38	0	0	4
231	Xavier U. LA	2,356	0	0	1,322	21	1,013	0	0	0	0
232	Spelman C.	2,291	192	0	1,569	0	392	130	8	0	0
233	TN State U.	2,285	0	0	1,390	8	0	0	887	0	0
234	TX A&M U. Kingsville	2,232	0	0	2,075	0	157	0	0	0	0
235	TX Tech U.	2,199	0	538	537	24	277	97	548	0	178
236	CA State U. Long Beach	2,177	0	0	1,571	0	370	129	0	107	0
237	Williams C.	2,141	NA	NA	NA	NA	NA	NA	NA	NA	NA
238	CA State U. Northridge	2,065	0	0	219	0	100	700	0	1,046	0
239	Duquesne U.	2,033	0	0	1,630	94	309	0	0	0	0
240	U. PR Humacao	2,030	0	0	0	0	2,030	0	0	0	0
241	DePaul U.	2,019	63	0	108	0	0	1,686	162	0	0
242	Western MI U.	2,012	0	0	1,635	0	269	20	88	0	0
243	Chicago State U.	1,994	0	0	0	0	0	0	0	1,994	0
244	Catholic U. America, The	1,926	0	0	1,210	0	266	354	0	0	96
245	Fordham U.	1,926	0	0	1,273	0	0	403	250	0	0
246	U. of the VI	1,902	0	0	1,259	0	0	0	643	0	0
247	ID State U.	1,813	0	0	1,813	0	0	0	0	0	0
248	U. Akron all campuses	1,798	0	0	739	39	67	46	898	0	9
249	CUNY Queens C.	1,793	0	2	654	0	183	893	61	0	0
250	Long Island U. all campuses	1,793	0	0	1,793	0	0	0	0	0	0
251	Mercer U. all campuses	1,762	0	0	1,762	0	0	0	0	0	0
252	SUNY C. of Optometry	1,753	0	0	1,753	0	0	0	0	0	0
253	U. NC Wilmington	1,746	0	120	847	0	151	628	0	0	0
254	DE State U.	1,672	0	0	1,486	0	0	0	186	0	0
255	AL State U.	1,667	0	0	1,612	0	0	0	55	0	0
256	Nova Southeastern U.	1,658	0	0	1,281	0	0	377	0	0	0
257	Boise State U.	1,628	0	0	1,489	0	105	0	0	0	34
258	Black Hills State U.	1,617	0	0	1,617	0	0	0	0	0	0
259	CA State Polytechnic U. Pomona	1,611	0	0	1,611	0	0	0	0	0	0
260	Rochester Institute of Technology	1,608	0	0	1,445	0	35	0	52	0	76
261	Old Dominion U.	1,599	0	0	994	0	20	216	358	0	11
262	Wellesley C.	1,574	0	2	524	0	0	26	20	1,002	0
263	PA C. of Optometry	1,543	0	0	1,543	0	0	0	0	0	0
264	NC Agricultural and Technical State U.	1,486	0	0	1,438	0	8	0	40	0	0
265	CA State U. Bakersfield	1,463	0	0	1,300	0	163	0	0	0	0
266	CUNY York C.	1,455	0	0	1,455	0	0	0	0	0	0
267	Cleveland State U.	1,448	0	0	1,019	0	226	2	24	0	177
268	U. PR Mayaguez Campus	1,410	0	221	347	0	685	0	4	0	153
269	U. GU	1,407	0	0	1,407	0	0	0	0	0	0
270	CA State U. Fullerton	1,403	0	0	1,403	0	0	0	0	0	0
271	U. NV, Las Vegas	1,384	0	0	921	0	350	19	94	0	0
272	Barnard C.	1,375	0	0	0	0	70	1,305	0	0	0
273	Shaw U.	1,324	0	0	1,324	0	0	0	0	0	0
274	IL State U.	1,323	0	0	1,188	0	93	37	5	0	0
275	SUNY C. Old Westbury	1,287	0	0	918	0	363	0	6	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 2006

(Dollars in Thousands)

Rank	Institution	HHS R&D Expenditures	Computer Sciences	Environmental Sciences	Life Sciences	Mathematical Sciences	Physical Sciences	Psychology	Social Sciences	Sciences, nec	Engineering
276	CUNY Graduate Ctr.	1,122	351	0	0	0	0	15	0	756	0
277	Albany State U.	1,119	0	413	0	0	0	0	0	0	706
278	St. John's U. (Jamaica, NY)	1,118	0	0	96	0	287	735	0	0	0
279	C. of William and Mary all campuses	1,095	0	310	358	0	89	193	145	0	0
280	San Jose State U.	1,082	0	0	147	0	588	74	0	0	273
281	Midwestern U. (Chicago, IL)	1,079	0	0	1,079	0	0	0	0	0	0
282	CA State U. Dominguez Hills	1,072	0	0	811	0	138	93	30	0	0
283	New England C. of Optometry	1,036	0	0	1,036	0	0	0	0	0	0
284	Clark U.	1,028	0	188	281	0	130	429	0	0	0
285	Western KY U.	980	0	0	594	0	32	354	0	0	0
286	MT Tech of the U. MT	979	0	15	563	0	297	0	0	0	104
287	Ball State U.	964	0	0	764	0	88	0	112	0	0
288	U. MO-St. Louis	949	0	0	358	0	512	79	0	0	0
289	Woods Hole Oceanographic Institution	927	0	927	0	0	0	0	0	0	0
290	SUNY C. Buffalo	919	0	3	0	0	0	180	736	0	0
291	Western U. of Health Sciences	905	0	0	905	0	0	0	0	0	0
292	CA State U. East Bay	897	0	0	693	0	204	0	0	0	0
293	Worcester Polytechnic Institute	881	107	0	98	358	0	0	0	0	318
294	Smith C.	874	0	0	222	19	0	286	21	0	326
295	CA State U. Fresno	831	0	0	457	0	140	234	0	0	0
296	Benedict C.	818	0	0	818	0	0	0	0	0	0
297	FL Institute of Technology	816	93	0	276	0	447	0	0	0	0
298	Northwestern Health Sciences U.	800	0	0	800	0	0	0	0	0	0
299	MI Technological U.	741	0	0	0	276	147	0	0	0	318
300	U. TX-Pan American	741	0	0	721	0	0	20	0	0	0
301	Bates C.	721	0	0	721	0	0	0	0	0	0
302	U. Tulsa	706	0	0	414	0	0	292	0	0	0
303	Philadelphia C. of Osteopathic Medicine	681	0	0	681	0	0	0	0	0	0
304	NM Highlands U.	678	0	0	0	0	663	15	0	0	0
305	Augustana C. (Sioux Falls, SD)	674	0	0	674	0	0	0	0	0	0
306	Colby C.	672	168	0	393	0	43	68	0	0	0
307	Claremont Graduate U.	658	0	0	0	0	0	658	0	0	0
308	C. Charleston	650	0	0	619	0	19	12	0	0	0
309	SUNY C. Plattsburgh	644	0	0	0	0	644	0	0	0	0
310	U. North TX	639	0	0	314	0	0	0	325	0	0
311	SUNY C. Oswego	636	0	0	0	0	0	636	0	0	0
312	Seton Hall U.	626	0	0	626	0	0	0	0	0	0
313	Clarkson U.	619	0	0	404	0	79	0	0	0	136
314	Gallaudet U.	616	0	0	467	0	0	134	0	15	0
315	LA Tech U.	607	232	161	0	0	0	0	0	0	214
316	Governors State U.	601	0	0	601	0	0	0	0	0	0
317	U. Dayton	601	0	0	601	0	0	0	0	0	0
318	U. MO-Rolla	593	0	0	286	0	259	0	0	0	48
319	Pomona C.	582	0	0	123	11	41	407	0	0	0
320	MT State U. Billings	581	0	0	581	0	0	0	0	0	0
321	AL A&M U.	580	0	0	0	0	578	0	0	0	2
322	SD State U.	580	0	0	576	0	0	0	0	0	4
323	TX Woman's U.	578	0	0	577	0	0	0	0	1	0
324	CUNY C. Staten Island	570	0	0	49	0	521	0	0	0	0
325	Northern KY U.	560	0	0	330	0	2	228	0	0	0
326	Fayetteville State U.	554	0	0	0	0	0	0	554	0	0
327	Bowdoin C.	548	0	0	548	0	0	0	0	0	0
328	Furman U.	537	0	0	185	0	286	66	0	0	0
329	Albany C. of Pharmacy	524	0	0	524	0	0	0	0	0	0
330	U. of the Pacific	522	0	0	522	0	0	0	0	0	0
331	CO School of Mines	515	0	0	0	0	349	0	0	0	166
332	Eastern MI U.	501	0	0	94	0	235	172	0	0	0
333	James Madison U.	499	0	0	499	0	0	0	0	0	0
334	Maharishi U. of Management	499	0	0	499	0	0	0	0	0	0
335	Rowan U.	485	0	0	0	0	0	485	0	0	0
336	Roger Williams U. Bristol	480	0	0	480	0	0	0	0	0	0
337	CA State U. San Bernardino	475	0	0	83	0	0	392	0	0	0
338	Millsaps C.	471	0	0	471	0	0	0	0	0	0
339	CO State U. Pueblo	462	0	0	297	0	165	0	0	0	0
340	Mt. St. Mary's C. (Los Angeles, CA)	462	0	0	462	0	0	0	0	0	0
341	National U. of Health Sciences	460	0	0	460	0	0	0	0	0	0
342	Southeastern OK State U.	457	0	0	100	0	357	0	0	0	0
343	Hope C.	429	0	0	429	0	0	0	0	0	0
344	Stephen F. Austin State U.	429	0	0	429	0	0	0	0	0	0
345	U. LA Monroe	413	0	0	413	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 2006

(Dollars in Thousands)

Rank	Institution	HHS R&D Expenditures	Computer Sciences	Environmental Sciences	Life Sciences	Mathematical Sciences	Physical Sciences	Psychology	Social Sciences	Sciences, nec	Engineering
346	Prairie View A&M U.	409	0	0	355	0	54	0	0	0	0
347	West Liberty State C.	402	0	0	402	0	0	0	0	0	0
348	U. WI La Crosse	398	87	0	272	0	39	0	0	0	0
349	GA Southern U.	381	0	0	360	0	0	21	0	0	0
350	Savannah State U.	381	0	0	381	0	0	0	0	0	0
351	Morehead State U.	370	0	0	163	0	0	207	0	0	0
352	IN State U. all campuses	365	0	0	0	0	12	353	0	0	0
353	Bluefield State C.	356	0	0	356	0	0	0	0	0	0
354	Bryn Mawr C.	355	0	0	159	0	74	122	0	0	0
355	Lincoln U. (Lincoln University, PA)	338	0	0	146	0	192	0	0	0	0
356	Hamilton C. (Clinton, NY)	327	0	0	94	0	0	233	0	0	0
357	American U.	326	0	0	0	0	0	272	54	0	0
358	Norfolk State U.	326	0	0	0	0	326	0	0	0	0
359	Reed C.	324	0	0	98	0	40	186	0	0	0
360	Stevens Institute of Technology	318	0	0	241	0	0	0	0	0	77
361	Tougaloo C.	317	0	0	317	0	0	0	0	0	0
362	C. of the Holy Cross	314	0	0	34	0	0	280	0	0	0
363	Central MI U.	307	0	0	152	0	50	97	0	8	0
364	Eastern KY U.	298	0	0	48	0	250	0	0	0	0
365	U. AL Huntsville, The	295	0	0	244	0	51	0	0	0	0
366	Hendrix C.	281	0	0	13	0	268	0	0	0	0
367	Loyola Marymount U.	281	0	0	78	26	0	177	0	0	0
368	U. of the Sciences Philadelphia	277	0	0	277	0	0	0	0	0	0
369	A.T. Still U. of Health Sciences	273	0	0	273	0	0	0	0	0	0
370	Baylor U.	273	62	0	5	0	101	105	0	0	0
371	U. CA, Merced	271	0	0	271	0	0	0	0	0	0
372	Southwest MO State U.	270	0	0	270	0	0	0	0	0	0
373	Southern U. and A&M C., all campuses	260	0	0	260	0	0	0	0	0	0
374	Heritage U. (Toppenish, WA)	254	0	0	254	0	0	0	0	0	0
375	Johnson C. Smith U.	251	0	0	0	0	149	102	0	0	0
376	Western WA U.	249	0	0	0	0	58	64	127	0	0
377	Mayville State U.	243	0	0	243	0	0	0	0	0	0
378	U. MD Baltimore County	242	90	0	132	0	0	0	20	0	0
379	Carlos Albizu U. (San Juan, PR)	234	0	0	0	0	0	234	0	0	0
380	Grambling State U.	233	0	0	233	0	0	0	0	0	0
381	OH Wesleyan U.	216	0	0	35	0	0	181	0	0	0
382	U. Northern CO	212	0	0	135	0	0	0	77	0	0
383	Amherst C.	209	0	0	0	0	32	177	0	0	0
384	U. New England	208	0	0	208	0	0	0	0	0	0
385	Northeastern State U.	207	0	0	207	0	0	0	0	0	0
386	Western IL U.	200	0	0	0	0	200	0	0	0	0
387	U. WI Parkside	199	0	0	199	0	0	0	0	0	0
388	U. MA Dartmouth	194	0	0	13	0	162	19	0	0	0
389	Milwaukee School of Engineering	192	0	0	192	0	0	0	0	0	0
390	Davidson C.	187	0	0	0	0	0	187	0	0	0
391	WV State U.	187	0	0	187	0	0	0	0	0	0
392	U. North FL	184	0	0	102	18	0	52	12	0	0
393	U. San Francisco	181	0	4	73	0	0	104	0	0	0
394	Alcorn State U.	180	0	0	180	0	0	0	0	0	0
395	Central WA U.	180	0	0	0	0	101	0	79	0	0
396	St. Mary's C. MD	179	0	0	0	0	0	179	0	0	0
397	Trinity C. (Hartford, CT)	178	50	0	7	0	0	100	21	0	0
398	Elizabeth City State U.	177	0	0	177	0	0	0	0	0	0
399	Swarthmore C.	176	0	0	40	0	0	58	0	0	78
400	U. HI Hilo	173	0	0	0	0	146	0	0	27	0

HHS = Department of Health and Human Services.

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

nec = not elsewhere classified.

^a Data represent the federally funded expenditures of The Johns Hopkins University, excluding its Applied Physics Laboratory (APL). With \$672 million 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 repo

Although the original table has 484 rankings, with multiple institutions sharing the same ranking in some instances, only the top 400 are being presented here.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, FY 2006.

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 2006

(Dollars in Thousands)												
Rank	Institution	All agencies	DOC	DOD ^a	DOE	ED	EPA	HHS	NASA	NSF	USDA	Other ^b
	All systems	9,519,753	137,726	894,860	346,101	64,738	44,503	5,820,869	384,918	1,352,759	355,122	118,157
1	U. CA System	2,192,700	18,181	114,656	71,016	4,221	8,766	1,502,914	91,354	340,129	33,874	7,589
2	U. TX System	873,838	1,026	121,019	19,306	2,020	605	662,298	13,851	48,681	2,062	2,970
3	Columbia U. System	536,039	15,873	8,589	10,458	2,731	4,765	421,022	11,026	60,353	357	865
4	U. NC System	482,464	7,172	31,156	9,692	5,667	10,311	329,091	3,807	56,949	25,080	3,539
5	State U. System FL	439,335	5,680	88,789	13,962	8,106	1,727	184,211	14,828	87,514	23,420	11,098
6	U. MD System	413,617	16,288	29,434	9,357	150	3,739	233,349	59,832	45,154	13,330	2,984
7	U. WI System	402,013	2,693	22,083	28,814	4,428	769	250,102	7,700	62,338	19,485	3,601
8	U. IL System	366,058	1,270	34,460	19,969	2,571	0	192,098	3,667	85,451	22,188	4,384
9	OR State Higher Ed. System	328,582	3,774	11,112	8,414	6,284	3,023	220,961	5,376	47,327	15,728	6,583
10	Universities and State Colleges of AZ System	292,911	1,462	25,055	8,963	1,120	2,650	124,678	46,420	69,717	9,151	3,695
11	U. System GA	289,241	2,944	80,573	9,509	6,093	0	105,342	2,602	59,901	19,802	2,475
12	U. AL System	288,926	1,957	16,581	5,362	625	195	225,805	23,812	9,594	275	4,720
13	SUNY System	245,288	5,644	13,271	9,555	4,104	566	157,105	10,745	42,019	779	1,500
14	UT Higher Ed. System	238,811	926	44,152	8,934	0	197	138,833	4,789	26,118	12,177	2,685
15	CUNY System	225,420	104	4,741	2,538	3,332	0	200,253	1,169	10,502	20	2,761
16	U. HI System	210,880	15,928	90,074	2,758	2,175	0	42,126	11,564	30,943	12,924	2,388
17	U. MA System	199,327	549	8,480	11,290	300	1,248	131,855	2,431	36,712	4,888	1,574
18	IN U. System	174,117	1,107	6,525	4,916	687	135	134,610	3,815	21,784	179	359
19	TX A&M U. System	124,501	2,304	8,190	8,393	3,671	170	50,818	3,177	17,101	27,196	3,481
20	U. MO System	116,521	100	6,740	3,581	800	0	56,387	3,273	21,699	21,080	2,861
21	LA State U. System	116,335	2,157	11,573	2,601	0	170	69,430	1,813	14,185	9,137	5,269
22	CA State U. and Colleges System	112,160	56	39,211	602	2,173	0	35,385	13,619	14,772	1,639	4,703
23	U. NE System	105,188	106	8,971	2,258	150	537	62,062	1,545	16,456	9,100	4,003
24	CO State U. System	104,478	4,658	6,813	5,374	0	425	42,983	8,545	22,609	11,210	1,861
25	U. NV System	97,640	402	15,030	41,744	0	0	20,736	2,307	12,087	2,439	2,895
26	U. TN System	89,462	50	4,483	7,258	0	3,085	50,348	1,762	9,577	7,314	5,585
27	U. AR System	88,380	0	6,487	1,673	870	84	52,765	2,932	7,064	14,911	1,594
28	MT U. System	84,383	172	13,435	4,641	600	0	29,134	8,941	12,865	10,643	3,952
29	U. AK System	54,725	9,154	3,199	3,104	0	0	6,631	2,638	19,254	3,071	7,674
30	U. PR System	47,410	101	2,944	578	0	0	31,204	1,367	6,219	4,861	136
31	U. NH System	40,420	14,132	93	1,161	0	0	2,140	9,202	8,348	2,687	2,657
32	State U. and Community C. System TN	28,641	0	4,679	921	0	0	10,854	1,712	4,216	4,676	1,583
33	U. Houston System	28,402	0	2,728	1,551	1,580	0	13,406	1,736	6,245	365	791
34	U. ME System	26,108	1,635	4,752	380	0	1,336	2,783	381	9,137	5,371	333
35	U. SD System	14,876	0	415	0	0	0	13,526	589	311	0	35
36	Southern IL U. System	11,841	0	994	530	0	0	6,821	0	2,284	1,188	24
37	U. LA System	7,383	0	240	752	0	0	3,263	113	2,095	542	378
38	TX State U. System	6,381	0	2,462	1,065	0	0	546	0	535	1,714	59
39	Claremont Colleges System	5,130	121	416	0	0	0	1,117	0	3,421	55	0
40	NC Community C. System	1,648	0	0	0	0	0	0	0	0	0	1,648
41	MN State Colleges and Universities	1,508	0	32	0	280	0	289	0	649	0	258
42	Maricopa County Community C. System	1,210	0	150	1,000	0	0	0	0	0	0	60
43	State System of Higher Ed. (PA)	1,197	0	50	500	0	0	62	68	313	204	0
44	MA Community C. System	990	0	0	990	0	0	0	0	0	0	0
45	Fundacion Educativa G Mendez System	838	0	0	0	0	0	838	0	0	0	0
46	MA State C. System	492	0	0	0	0	0	483	0	9	0	0
47	VA Community C. System	481	0	0	481	0	0	0	0	0	0	0
48	Dallas County Community C. System	327	0	0	0	0	0	0	0	0	0	327
49	Foothill-Deanza Community C. District System	261	0	0	0	0	0	0	261	0	0	0

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 2006

(Dollars in Thousands)

Rank	Institution	All agencies	DOC	DOD ^a	DOE	ED	EPA	HHS	NASA	NSF	USDA	Other ^b
50	San Diego District Community Colleges System	205	0	0	0	0	0	205	0	0	0	0
51	Contra Costa Community C. District System	173	0	0	0	0	0	0	0	0	0	173
52	Mesa County Jr. C. District System	169	0	0	0	0	0	0	0	122	0	47
53	Troy State U. System	154	0	4	150	0	0	0	0	0	0	0
54	San Jacinto C. System	149	0	0	0	0	0	0	149	0	0	0
55	Inter American U. PR System	19	0	19	0	0	0	0	0	0	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

^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

^b See General Notes.

NOTE: Includes obligations to every individual institution included within each system.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions, FY 2006.