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Awards Annual Report: Fiscal Year 1998

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The University of New Mexico



AWARDS ANNUAL REPORT *fy98*

Office of Research Services

AWARDS ANNUAL REPORT *fy*98

On the Cover: *Time Cycle, Morning*, 1930, by Raymond Jonson. Bequest of Raymond Jonson, Collection of Jonson Gallery of the University of New Mexico Art Museums, Albuquerque.

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message

FROM THE ASSOCIATE PROVOST FOR RESEARCH/DEAN OF GRADUATE STUDIES



It is a pleasure for me to release this 1998 annual report, which summarizes the University of New Mexico's (UNM) sponsored activities for fiscal year 1998 (i.e., July 1, 1997 - June 30, 1998, FY98). The purpose of this report is to present statistics of FY98 sponsored research, public service and instruction efforts at the main campus and Health Sciences Center (HSC). UNM, a Research I Institution, is ranked in the top 50 of the nation's public universities and colleges, based on annual research and development (R&D) expenditures (see p. 11).

UNM faculty have continued their commitment to excellence by seeking sponsored project support and producing scholarly and creative works. While the majority of research at UNM is faculty based, there is a noticeable level of activity which involve non-faculty initiatives. The scholarly and creative works are listed in *Faculty Publications and Creative Works* and the details of contract and grant activities are compiled in the *Contract and Grant Awards Report*, both of which are published annually by the Office of Research Services.

The awards received for FY98 total \$175.8M, of which \$121.3M is attributed to the main campus. These awards assist in providing resources that are necessary to improve the quality of research and teaching at UNM. They also enhance the opportunities for students to be trained in state-of-the-art laboratories in a variety of disciplines. During FY98, \$5.5M was paid to 540 graduate students for research assistantships.

UNM centers continue to flourish and promote interdisciplinary research. They acquired \$38M in awards and were responsible for supporting numerous faculty, staff and students from a broad spectrum of disciplines on campus.

Terminology pertinent to this report include the following: *contract and grant* (C&G) awards — new funds that were acquired during FY98; *expenditures* — expenses incurred with respect to C&G awards in effect during FY98; *facilities and administrative costs* (F+A), formerly known as indirect costs (IDC) — overhead funds that were generated as a result of expenditures incurred during FY98.

Please join me in thanking our dedicated faculty, staff and students involved in the research, public service and instruction efforts at UNM. It is their successful endeavors that enhance UNM's visibility at the national and international levels, as well as contribute to the economic growth of New Mexico and the region. Thanks are also due to a number of individuals who have helped in preparing this report. In particular, I would like to acknowledge the efforts of Denise Wallen, Ann Powell and Valerie Roybal of the Office of Research Services, Marcia Sletten of the Health Sciences Center and Roland Wildman of the Center for High Technology Materials.

As always, I welcome your comments and questions with respect to this annual report, and other issues related to research activities at UNM.

A handwritten signature in cursive script that reads "Nasir Ahmed".

Nasir Ahmed, Presidential Professor
Interim Associate Provost for Research and Dean of Graduate Studies

contents

| | |
|--|----|
| Summary | 7 |
| Figure 1: Summary FY97 - FY98 | |
| Statistics Summary: Contract and Grant Awards and Funding Sources FY98 | 8 |
| Table 1a: Total C&G Awards (UNM) | |
| Table 1b: Source of C&G Awards (UNM) | |
| Table 1c: Source of C&G Awards (Main Campus) | |
| Table 1d: Source of C&G Awards (HSC) | |
| Statistics Summary: Funding Categories FY98 | 9 |
| Table 2: Funding Category and Totals (Main Campus, HSC, UNM) | |
| National Rankings | 11 |
| Table 3: UNM's Ranking for Total R&D Expenditures Compared to all Universities and Colleges: FY93 - FY98 | |
| Table 4: UNM's Ranking for Total R&D Expenditures Compared to all Public Universities and Colleges: FY93 - FY98 | |
| Table 5: Total R&D Expenditures at Universities and Colleges: FY93 - FY98 | |
| Table 6: R&D Expenditures at Public Universities and Colleges, by Source of Funds: FY97 | |
| Table 7: Federal Obligations for Science and Engineering Research and Development to the 100 Universities and Colleges Receiving the Largest Amounts, Ranked by Total Amount Received: FY97 | |
| Table 8: Federal Obligations for Science and Engineering to the 100 Universities and Colleges Receiving the Largest Amounts, Ranked by Total Amount Received in FY97: FY93 - FY97 | |
| UNM Figures | 16 |
| Figure 2: Contract and Grant Awards by Source of Funds FY98 | |
| Figure 3: Breakdown of Federal Funds FY98 | |
| Figure 4: Contract and Grant Awards by Unit FY98 | |
| Figure 5: Total Contract and Grant Awards Ten Year History FY89 - FY98 | |
| Figure 6: Contract and Grant Expenditures by Unit FY98 | |
| Figure 7: Total Contract and Grant Expenditures Ten Year History FY89 - FY98 | |
| Figure 8: Proposals by Unit FY98 | |
| Figure 9: Facilities and Administrative (F+A) Costs Generated by Unit FY98 | |
| Awards | 20 |
| Table 9: Award Dollars FY89 - FY98 | |
| Table 10: Award Dollars by Source of Funds FY97 - FY98 | |
| Table 11: Award Dollars by Campus Area FY97 - FY98 | |
| Table 12: Award Dollars by Source of Funds: Funds Distribution FY98 | |
| Table 13: Awards by Campus Area FY98 | |
| Table 14: Funding Agencies Providing More Than \$1M in Support FY98 | |
| Figure 10: Funding Agencies Providing More Than \$1M FY98 | |
| Figure 11: Contract and Grant Awards by Centers FY98 | |
| Figure 12: Contract and Grant Awards for Centers by PI's Department FY98 | |

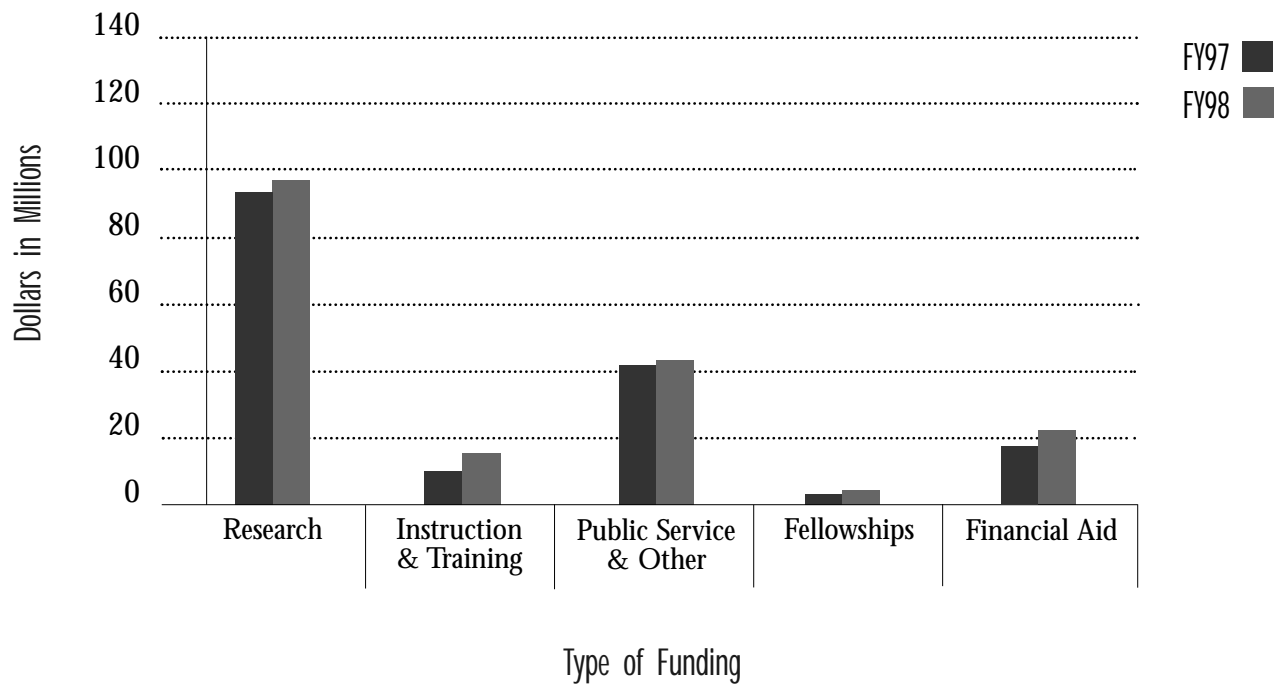
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|---|----|
| Funding Trends | 25 |
| <hr/> | |
| Figure 13: Five Year Funding Trends by Source of Funds: Federal Awards FY94 - FY98 | |
| Figure 14: Five Year Funding Trends by Source of Funds: Foundation Awards FY94 - FY98 | |
| Figure 15: Five Year Funding Trends by Source of Funds: Industry Awards FY94 - FY98 | |
| Figure 16: Five Year Funding Trends by Source of Funds: National Lab Awards FY94 - FY98 | |
| Figure 17: Five Year Funding Trends by Source of Funds: State Awards FY94 - FY98 | |
| Figure 18: Five Year Funding Trends by Source of Funds: Other Awards FY94 - FY98 | |
| Proposals | 27 |
| <hr/> | |
| Table 15: Proposals by Campus Area: School, College and Division FY98 | |
| Expenditures | 28 |
| <hr/> | |
| Table 16: UNM Contract and Grant Expenditures FY98 | |
| Figure 19: Total Expenditures by Centers FY98 | |
| Figure 20: Total Expenditures by Centers Associated with PI's Department FY98 | |
| Facilities and Administrative (F+A) Costs | 30 |
| <hr/> | |
| Table 17: F+A Costs Generated FY98 | |
| Appendix | 31 |
| <hr/> | |
| Figure 21: MIDAS Usage FY98 | |
| References | 32 |
| <hr/> | |

summary

Contract and grant (C&G) awards received by the University of New Mexico are from the federal government, state and local government, national laboratories, private and corporate foundations, industry, universities and nonprofit organizations. A breakdown of FY98 (July 1, 1997 - June 30, 1998) awards, by category is as follows:

| | FY97 | FY98 |
|------------------------|----------------------|----------------------|
| Research | \$92,421,690 | \$94,584,071 |
| Instruction & Training | 8,093,856 | 16,586,349 |
| Public Service & Other | 40,117,548 | 41,853,767 |
| Fellowships | 974,291 | 1,613,949 |
| Financial Aid | <u>18,077,961</u> | <u>21,192,474</u> |
| Total | \$159,685,346 | \$175,830,610 |

Figure 1: Summary FY97 - FY98



summary

The FY98 total for external sponsored support to the University of New Mexico is \$175.8M. As in the past, the federal government remains the primary source of UNM sponsored projects and represents 61% of sponsored support at UNM. State funding represents 13% of sponsored support. Funding from the national laboratories represents 4% of total sponsored support. Foundation support contributes to 2% of sponsored funds. Industry accounted for 8% of total sponsored support. Other support, which includes funds from universities, nonprofit organizations, local schools and foreign entities accounted for 12% of sponsored support.

The largest sponsor was the National Institutes of Health, followed by the State of New Mexico, the U.S. Department of Education and the U.S. Air Force. Foundations, industry and local/state government continue to play an important ongoing role for UNM's sponsored activities.

The total number of contracts and grants in FY98 is 1,279 and a total of 888 UNM principal investigators received awards. Of the colleges and schools, the School of Medicine had the largest amount of outside funding; the second was the College of Arts and Sciences, followed by the School of Engineering. Other significant support was distributed among the remaining colleges and schools, institutes, centers and programs.

Tables 1a through 1d and Table 2 summarize statistics pertaining to funding sources with respect to C&G awards for the main campus as well as the Health Sciences Center (HSC).

statistics summary

CONTRACT AND GRANT AWARDS AND FUNDING SOURCES FY98

Table 1a

| <u>Total C&G Awards</u> | <u>Percentage of Total C&G Awards</u> |
|-------------------------------|---|
| Total C&G Awards: UNM | \$175.8M |
| Total C&G Awards: Main Campus | \$121.3M (69%) |
| Total C&G Awards: HSC | \$54.5M (31%) |

Table 1b

| <u>Source of C&G Awards (UNM)</u> | <u>Percentage of Total C&G Awards</u> [Total: \$175.8M] |
|---------------------------------------|--|
| Foundations | 2% |
| Federal | 61% |
| Industry | 8% |
| National Laboratories | 4% |
| State of New Mexico | 13% |
| Other | 12% |

Table 1c

| <u>Source of C&G Awards (Main Campus)</u> | <u>Percentage of Total C&G Awards</u> [Total: \$121.3M] |
|---|--|
| Foundations | 3% |
| Federal | 63% |
| Industry | 4% |
| National Laboratories | 6% |
| State of New Mexico | 12% |
| Other | 12% |

Table 1d

| <u>Source of C&G Awards (HSC)</u> | <u>Percentage of Total C&G Awards</u> [Total: \$54.5M] |
|---------------------------------------|---|
| Foundations | 2% |
| Federal | 56% |
| Industry | 16 % |
| National Laboratories | <1% |
| State of New Mexico | 15% |
| Other | 11% |

statistics summary

FUNDING CATEGORIES FY98

Table 2

| <u>Funding Category</u> | <u>Main Campus</u> [Total: \$121.3M] | <u>HSC</u> [Total: \$54.5M] | <u>UNM</u> [Total: \$175.8M] |
|-------------------------|---|--------------------------------|---------------------------------|
| Research | 56% | 48% | 54% |
| Public Service | 13% | 49% | 24% |
| Instruction | 13% | 2% | 9% |
| Fellowships | 1% | 1% | 1% |
| Financial Aid | 17% | <1% | 12% |

national rankings

The National Science Foundation (NSF) maintains data on research and development (R&D) expenditures in science and engineering for the nation's universities. R&D expenditures are from all sources of funding: federal, state, local, industrial, foundation, internal and miscellaneous. *Tables 3 and 4*, below, show UNM's ranking since FY93 based on this NSF data.

Tables 5 through 8 detail UNM's placement within the individual rankings of the top colleges and universities according to the latest available NSF surveys of expenditures and obligations. An assortment of pie charts and bar diagrams are presented in *Figures 2 through 20*.

Table 3: UNM's Ranking for Total R&D Expenditures Compared to all Universities and Colleges:
FY93 - FY97

| <u>Year</u> | <u>Ranking</u> |
|-------------|----------------|
| FY97 | 74 |
| FY96 | 69 |
| FY95 | 55 |
| FY94 | 79 |
| FY93 | 84 |

Table 4: UNM's Ranking for Total R&D Expenditures Compared to all Public Universities and Colleges:
FY93 - FY97

| <u>Year</u> | <u>Ranking</u> |
|-------------|----------------|
| FY97 | 50 |
| FY96 | 47 |
| FY95 | 37 |
| FY94 | 54 |
| FY93 | 58 |

Table 5: Total R&D Expenditures at Universities and Colleges: FY93 - FY97 [Dollars in Thousands]*

| <u>Institution/Ranking</u> | <u>1997</u> | <u>1996</u> | <u>1995</u> | <u>1994</u> | <u>1993</u> |
|--------------------------------------|----------------|----------------|----------------|---------------|---------------|
| Total, All Institutions | 24,348,336 | 23,092,015 | 22,202,702 | 21,050,664 | 19,948,348 |
| 71 U of Hawaii Manoa | 120,107 | 111,202 | 78,429 | 70,079 | 73,961 |
| 72 Georgetown University | 119,114 | 112,582 | 102,421 | 82,661 | 73,785 |
| 73 U of Nebraska Lincoln | 117,100 | 102,460 | 107,721 | 102,746 | 94,959 |
| 74 University of New Mexico | 116,152 | 116,618 | 129,354 | 90,315 | 76,736 |
| 75 Princeton University ² | 114,549 | 112,380 | 104,157 | 99,287 | 95,561 |
| 76 University of Oklahoma | 114,387 | 109,071 | 102,337 | 95,747 | 92,019 |
| 77 University of Virginia | 114,085 | 97,334 | 136,679 | 129,504 | 115,786 |
| 78 U CA Irvine | 113,187 | 119,647 | 109,908 | 104,778 | 100,631 |
| 79 U Med & Dent NJ | 110,383 | 98,535 | 96,365 | 86,866 | 76,410 |
| 80 The Rockefeller U | <u>109,999</u> | <u>105,595</u> | <u>99,348</u> | <u>74,458</u> | <u>74,396</u> |
| Total 1st 80 Institutions | 17,612,762 | 16,675,766 | 16,063,892 | 15,268,246 | 14,519,117 |
| 81 University of Kansas | 108,893 | 100,649 | 100,702 | 95,701 | 85,134 |
| 82 U of South Florida | 99,649 | 94,157 | 92,758 | 86,186 | 75,322 |
| 83 Oregon Health Sciences U | 98,319 | 80,333 | 74,726 | 63,875 | 56,860 |
| 84 Washington State U | 97,700 | 98,641 | 96,810 | 94,819 | 92,434 |
| 85 Yeshiva University | 96,819 | 91,430 | 94,739 | 92,881 | 89,636 |
| 86 Florida State University | 95,908 | 78,125 | 86,060 | 76,588 | 62,929 |
| 87 UT-Houston HSC | 95,638 | 82,803 | 74,644 | 66,432 | 58,786 |
| 88 U CA Santa Barbara | 94,796 | 91,284 | 78,737 | 73,619 | 68,775 |
| 89 CUNY Mt Sinai Sch Med | 94,776 | 92,405 | 92,008 | 86,179 | 75,337 |
| 90 Utah State University | <u>91,292</u> | <u>81,709</u> | <u>82,468</u> | <u>79,085</u> | <u>75,835</u> |
| Total 1st 90 Institutions | 18,586,552 | 17,567,302 | 16,937,564 | 16,083,611 | 15,260,165 |

Source: National Science Foundation/SRS, Survey of Scientific and Engineering Expenditures at Universities and Colleges, Fiscal Year 1997.

* Federal expenditures represents the dollar amount reported by each institution to NSF.

² These data do not include R&D expenditures at university-associated federally funded research and development centers.

Table 6: R&D Expenditures at Public Universities and Colleges by Source of Funds: FY97 [Dollars in Thousands]*

| <u>Institution/Ranking</u> | <u>Total</u> | <u>Federal Govt.</u> | <u>State & Local Govts.</u> | <u>Industry</u> | <u>Institutional Funds</u> | <u>Other</u> |
|------------------------------------|-----------------------|----------------------|---------------------------------|---------------------|----------------------------|---------------------|
| Total, All Institutions | 16,391,179 | 8,752,177 | 1,709,477 | 1,158,125 | 3,737,070 | 1,034,330 |
| 41 U of Missouri Columbia | 132,432 | 35,993 | 17,895 | 8,449 | 63,882 | 6,213 |
| 42 Oregon State University | 131,467 | 80,131 | 27,512 | 832 | 14,636 | 8,356 |
| 43 University of Utah | 131,357 | 99,322 | 646 | 10,374 | 15,847 | 5,168 |
| 44 U TX MD Anderson Cncr | 129,578 | 49,702 | 0 | 0 | 47,937 | 31,939 |
| 45 Colorado State University | 128,580 | 79,393 | 20,510 | 5,712 | 22,439 | 526 |
| 46 University of Kentucky | 124,804 | 62,128 | 7,134 | 11,259 | 42,226 | 2,057 |
| 47 Wayne State University | 124,383 | 53,707 | 10,946 | 10,959 | 36,847 | 11,924 |
| 48 U of Hawaii Manoa | 120,107 | 72,421 | 28,440 | 5,944 | 13,297 | 5 |
| 49 U of Nebraska Lincoln | 117,100 | 41,269 | 38,629 | 4,651 | 30,781 | 1,770 |
| 50 University of New Mexico | <u>116,152</u> | <u>76,978</u> | <u>2,260</u> | <u>2,799</u> | <u>29,748</u> | <u>4,367</u> |
| Total 1st 50 Institutions | 11,101,383 | 6,011,688 | 1,164,126 | 790,801 | 2,420,142 | 714,626 |
| 51 University of Oklahoma | 114,387 | 45,756 | 14,718 | 6,871 | 34,328 | 12,714 |
| 52 University of Virginia | 114,085 | 82,488 | 4,310 | 7,627 | 9,379 | 10,281 |
| 53 U CA Irvine | 113,187 | 71,472 | 3,470 | 10,445 | 14,980 | 12,820 |
| 54 U Med & Dent NJ | 110,383 | 57,471 | 6,532 | 8,519 | 28,157 | 9,704 |
| 55 University of Kansas | 108,893 | 46,733 | 9,643 | 8,201 | 38,157 | 6,159 |
| 56 U of South Florida | 99,649 | 31,068 | 8,179 | 3,747 | 49,775 | 6,880 |
| 57 Oregon Health Sci U | 98,319 | 68,637 | 2,933 | 7,036 | 13,259 | 6,454 |
| 58 Washington State U | 97,700 | 45,030 | 3,495 | 3,138 | 36,243 | 9,794 |
| 59 Florida State University | 95,908 | 52,945 | 1,667 | 1,148 | 35,575 | 4,573 |
| 60 UT-Houston HSC | <u>95,638</u> | <u>67,205</u> | <u>787</u> | <u>9,780</u> | <u>5,911</u> | <u>11,955</u> |
| Total 1st 60 Institutions | 12,149,532 | 6,580,493 | 1,219,860 | 857,313 | 2,685,906 | 805,960 |

Source: National Science Foundation/SRS, Survey of Scientific and Engineering Expenditures at Universities and Colleges, Fiscal Year 1997.

* Federal expenditures represents the dollar amount reported by each institution to NSF.

Table 7: Federal Obligations for Science and Engineering Research and Development to the 100 Universities and Colleges Receiving the Largest Amounts, Ranked by Total Amount Received: FY97 [Dollars in Thousands]*

| <u>Institution/Ranking</u> | <u>\$ Amount</u> |
|------------------------------------|-------------------|
| Total, All Institutions | 13,002,538 |
| 81 University of Connecticut | 48,255 |
| 82 University of New Mexico | 46,507 |
| 83 U TX Med Brnch Galveston | 46,227 |
| 84 Florida State University | 45,808 |
| 85 Dartmouth College | 45,771 |
| 86 Brown University | 44,119 |
| 87 Iowa State University | 43,940 |
| 88 Rockefeller University | 43,820 |
| 89 Tulane University | 43,574 |
| 90 U TX HSC San Antonio | <u>43,333</u> |
| Total 1st 90 institutions | 10,419,626 |

Source: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1997.

*Federal obligations data is submitted to NSF by federal funding agencies and represents new funds awarded for that fiscal year.

Table 8: Federal Obligations for Science and Engineering to the 100 Universities and Colleges Receiving the Largest Amounts, Ranked by Total Amount Received in FY97: FY93 - FY97 [Dollars in Thousands]*

| <u>Institution/Ranking</u> | <u>1993</u> | <u>1994</u> | <u>1995</u> | <u>1996</u> | <u>1997</u> |
|------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Total, All Institutions | 12,833,494 | 13,863,132 | 14,444,726 | 14,428,787 | 15,081,369 |
| 71 Wayne State University | 42,735 | 49,279 | 51,023 | 59,273 | 66,419 |
| 72 University of New Mexico | 60,999 | 74,407 | 83,155 | 65,459 | 65,412 |
| 73 U of IL Chicago | 58,450 | 64,197 | 57,799 | 61,552 | 65,237 |
| 74 U CA Santa Barbara | 54,860 | 64,875 | 63,625 | 64,254 | 64,379 |
| 75 U Med & Dent of NJ | 53,773 | 54,295 | 49,695 | 56,845 | 62,093 |
| 76 U TX MD Anderson Cancr | 43,219 | 49,500 | 46,712 | 56,618 | 60,612 |
| 77 Iowa State University | 58,267 | 72,201 | 58,831 | 58,975 | 59,441 |
| 78 U of Missouri Columbia | 42,016 | 47,245 | 48,376 | 45,246 | 57,999 |
| 79 U of Connecticut | 61,452 | 52,195 | 55,062 | 53,193 | 57,692 |
| 80 Woods Hole Ocean Inst | 66,821 | 68,281 | 69,967 | 59,812 | 57,106 |
| Total 1st 80 Institutions | 9,487,209 | 10,259,565 | 10,686,106 | 10,770,073 | 11,184,949 |
| 81 University of Georgia | 68,307 | 66,867 | 60,943 | 60,129 | 56,303 |
| 82 U of Cincinnati | 56,186 | 55,436 | 54,785 | 54,965 | 55,962 |
| 83 Wake Forest University | 42,526 | 56,784 | 54,109 | 58,588 | 55,916 |
| 84 Thomas Jefferson U | 39,635 | 47,199 | 50,211 | 52,837 | 53,242 |
| 85 U of MA Worcester | 36,639 | 38,872 | 38,928 | 46,969 | 52,878 |
| 86 University of Kansas | 36,438 | 37,810 | 44,402 | 49,762 | 49,827 |
| 87 U TX Med Br Galviston | 29,748 | 33,821 | 39,014 | 45,223 | 49,292 |
| 88 Dartmouth College | 43,641 | 41,498 | 42,747 | 47,137 | 48,462 |
| 89 U of Tennessee Knoxville | 42,070 | 40,924 | 41,748 | 41,057 | 47,981 |
| 90 U of MA Amherst | <u>40,237</u> | <u>41,682</u> | <u>48,416</u> | <u>44,157</u> | <u>47,891</u> |
| Total 1st 90 Institutions | 9,922,636 | 10,720,458 | 11,161,409 | 11,270,897 | 11,702,703 |

Source: National Science Foundation/SRS, Survey of Federal Support to Universities, Colleges, and Nonprofit Institutions, Fiscal Year 1997.

*Federal obligations data is submitted to NSF by federal funding agencies and represents new funds awarded for that fiscal year.

unm figures

Figure 2: Contract and Grant Awards by Source of Funds FY98

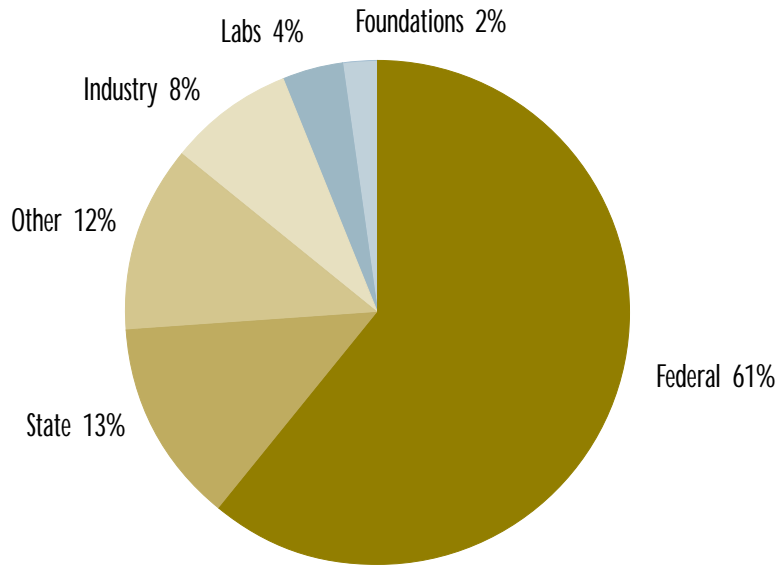


Figure 3: Breakdown of Federal Funds FY98

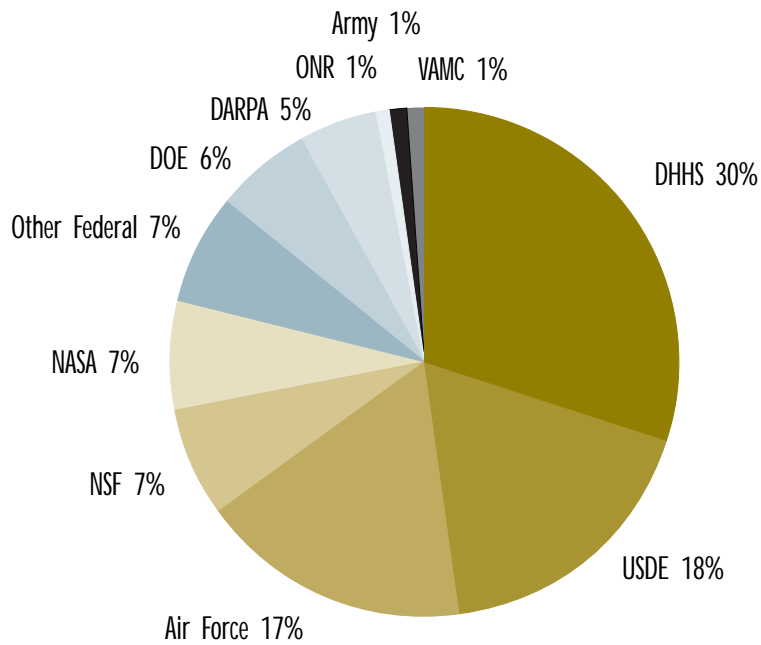


Figure 4: Contract and Grant Awards by Unit FY98

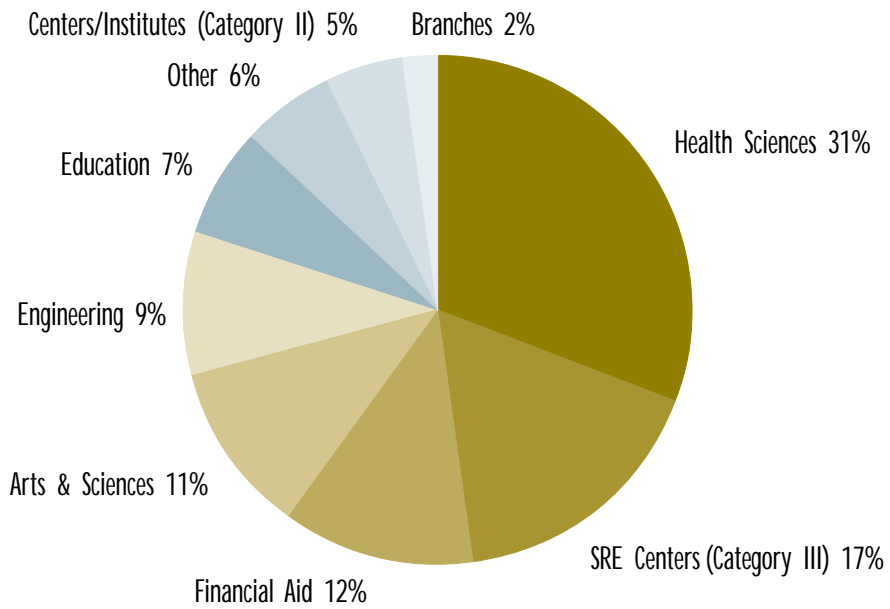


Figure 5: Total Contract and Grant Awards Ten Year History FY89 - FY98

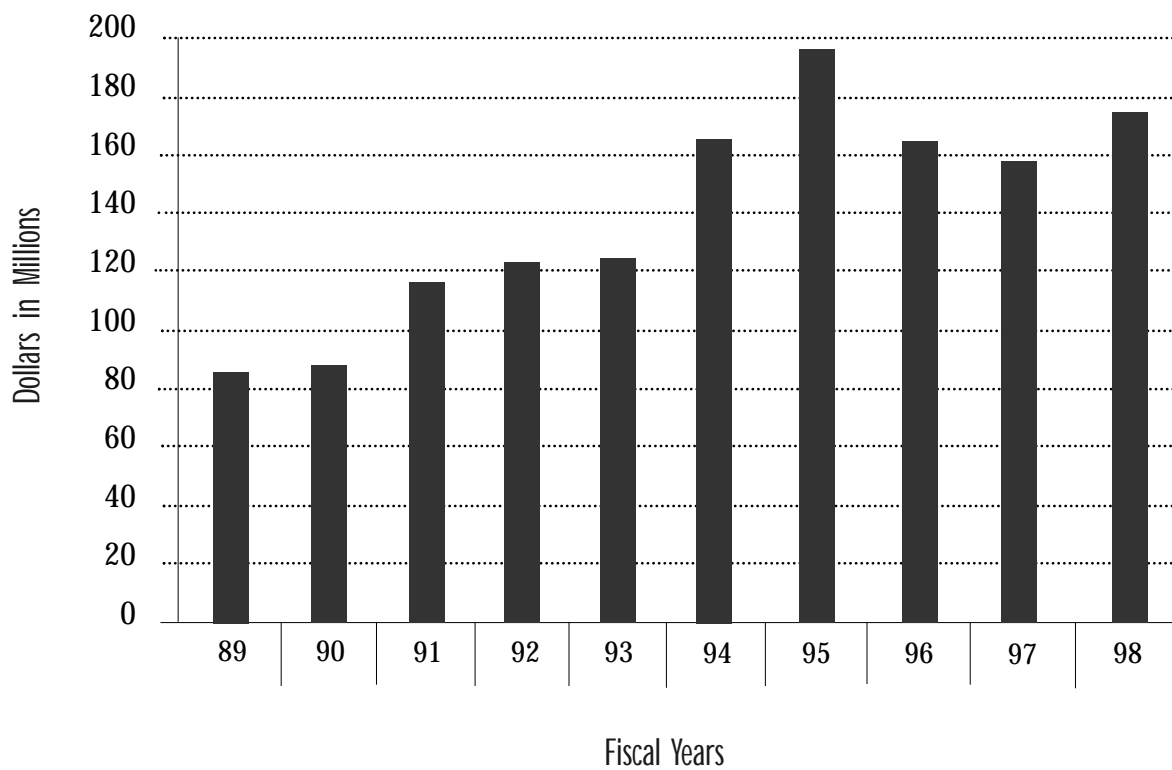


Figure 6: Contract and Grant Expenditures by Unit FY98

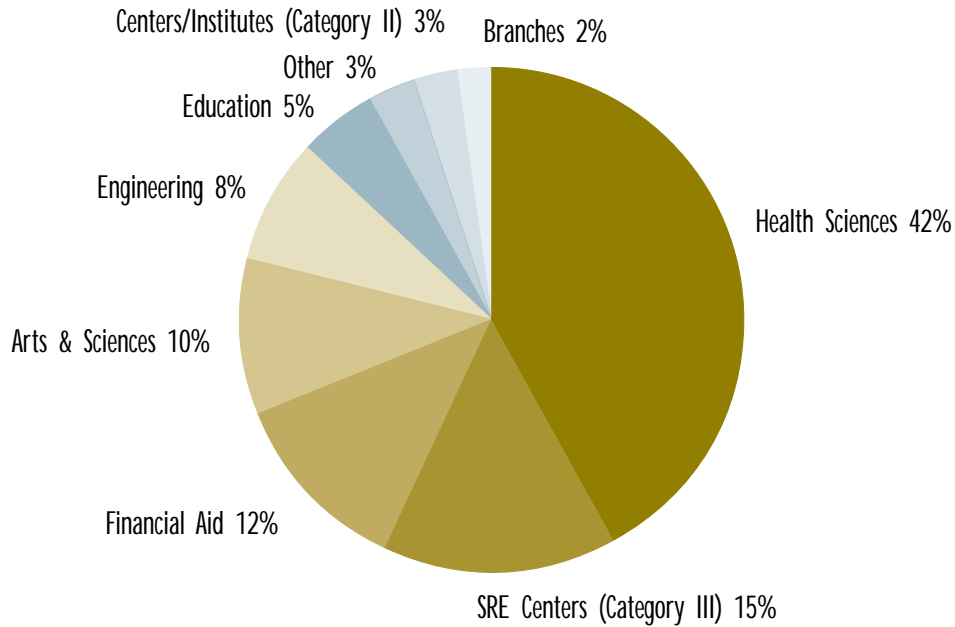
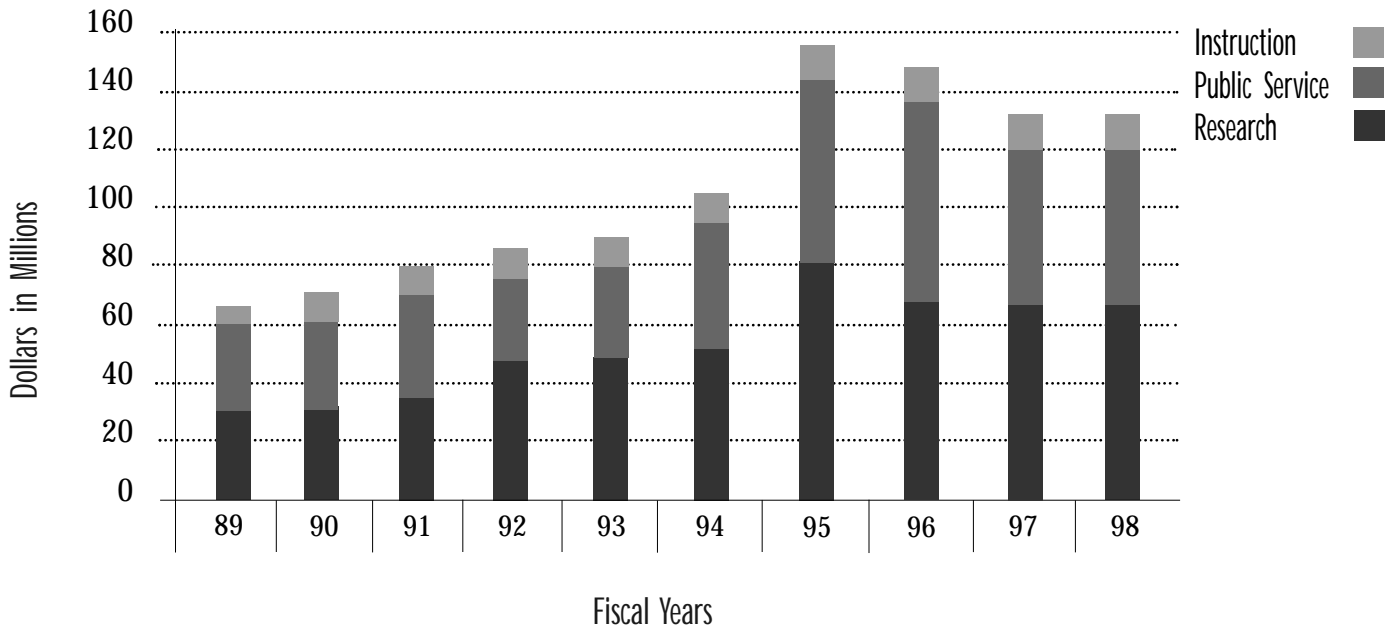


Figure 7: Total Contract and Grant Expenditures Ten Year History FY89 - FY98[◇]



[◇] Please see "References," page 32.

Note: Financial aid, endowments, fellowships and F+A are not included in this graph.

Figure 8: Proposals by Unit FY98

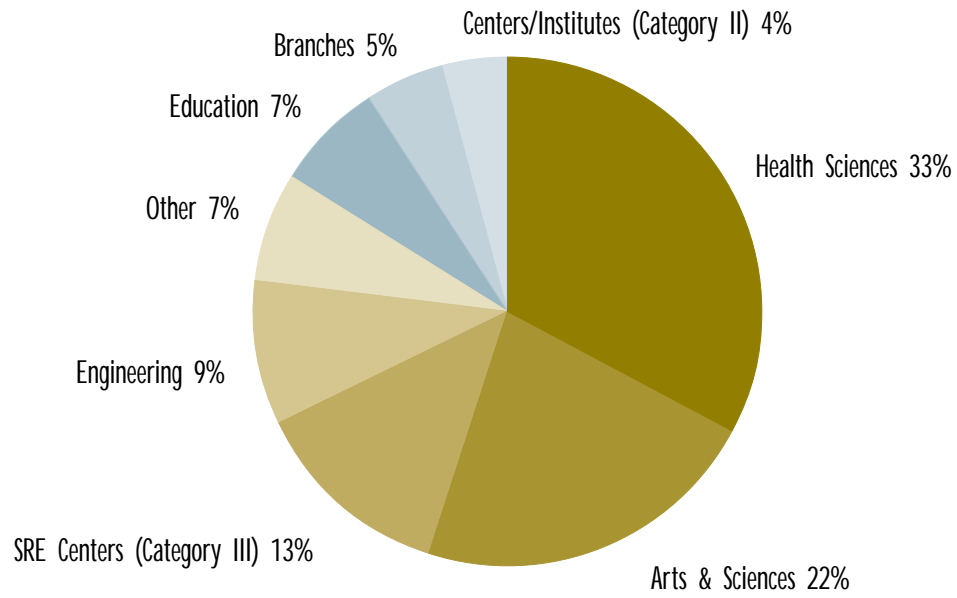
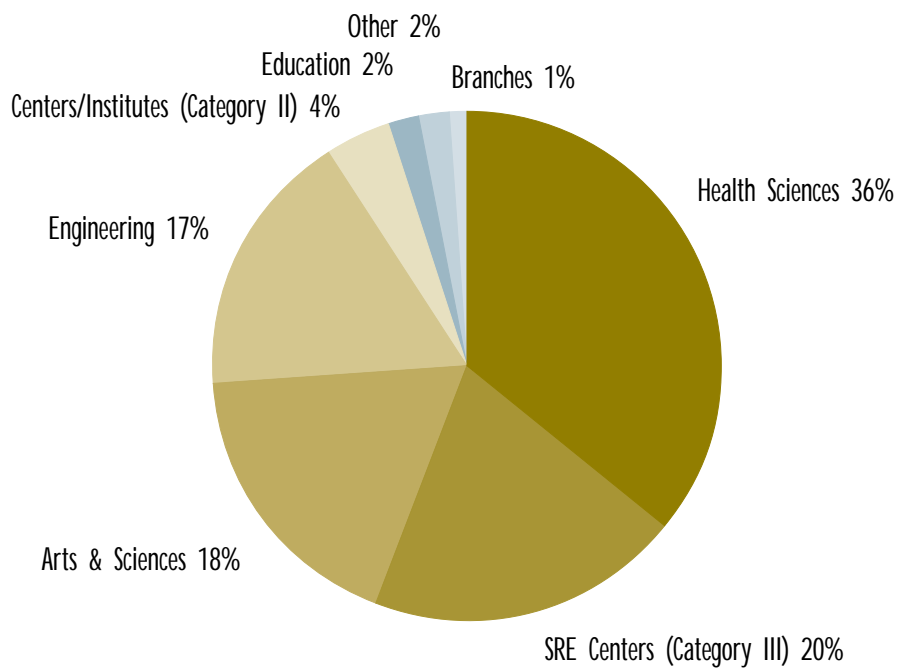


Figure 9: Facilities and Administrative Costs Generated by Unit FY98



awards

External sponsored support at the University of New Mexico has increased 107% over a ten-year period. In FY98 UNM received \$175.8M for 1,279 awards. The Health Sciences Center had the largest percentage of contract and grant awards, 31%, for a total \$54.5M. The School of Engineering accounted for 9% of the awards, for a total of \$14.4M and the College of Arts and Sciences with 11% of the awards, for a total of \$19.8M. *Table 9* reflects the number of contract and grants awarded from FY89 through FY98. *Tables 10 through 14* and *Figure 10* summarize award dollar details by sources of funds and campus area. *Figures 11* and *12* summarize awards dollars for the centers and for the departments whose principal investigators are involved.

Table 9: Award Dollars FY89 - FY98

| <u>Year</u> | <u>Main</u> | <u>HSC</u> | <u>Total</u> |
|-------------|--------------|--------------|--------------|
| 1989 | \$65,292,819 | \$19,490,851 | \$84,783,670 |
| 1990 | 57,893,153 | 26,700,661 | 84,593,814 |
| 1991 | 80,590,517 | 37,504,733 | 118,095,250 |
| 1992 | 89,501,957 | 34,362,051 | 123,864,008 |
| 1993 | 89,023,122 | 35,193,405 | 124,221,527 |
| 1994 | 129,434,866 | 37,153,847 | 166,588,713 |
| 1995 | 151,705,415 | 45,238,026 | 196,943,441 |
| 1996 | 113,661,750 | 50,661,741 | 164,323,491 |
| 1997 | 109,623,005 | 50,062,341 | 159,685,347 |
| 1998 | 121,291,377 | 54,539,233 | 175,830,610 |

Table 10: Award Dollars by Source of Funds FY97 - FY98

| <u>Source</u> | <u>FY97</u> | <u>FY98</u> | <u>% Change</u> |
|-----------------------|-------------------|-------------------|-----------------|
| Federal Agencies | \$102,656,741 | \$107,154,164 | +4% |
| State of New Mexico | 18,551,687 | 23,020,085 | +24% |
| National Laboratories | 6,303,773 | 7,794,592 | +24% |
| Industry | 14,735,344 | 13,887,907 | -6% |
| Foundations | 2,987,704 | 4,240,458 | +42% |
| Other | <u>14,650,098</u> | <u>19,733,404</u> | +35% |
| Total | \$159,685,347 | \$175,830,610 | +10% |

Table 11: Award Dollars by Campus Area FY97 - FY98

| <u>Campus Areas</u> | <u>FY97</u> | <u>FY98</u> |
|---|-------------------|-------------------|
| <i>Main Campus</i> | | |
| Anderson Schools of Management | \$137,188 | \$201,190 |
| College of Arts and Sciences | 19,551,510 | 19,824,028 |
| College of Education | 5,951,132 | 12,084,440 |
| College of Fine Arts | 6,400 | 2,000 |
| Division of Continuing Education | 45,761 | 726,721 |
| School of Architecture and Planning | 50,130 | 359,000 |
| School of Engineering | 18,476,472 | 15,988,460 |
| School of Law | 1,355,040 | 1,296,730 |
| Financial Aid | 18,077,961 | 21,192,474 |
| Branches | 2,788,822 | 3,818,412 |
| UNM Centers/Institutes (Category II)* | 3,985,336 | 8,021,438 |
| UNM SRE Centers (Category III)** | 33,066,001 | 29,888,201 |
| Other‡ | <u>6,131,252</u> | <u>7,888,283</u> |
| <i>Health Sciences Center</i> | | |
| Vice President for HSC and Other‡‡ | 2,390,140 | 1,641,321 |
| School of Medicine | 38,299,606 | 41,671,943 |
| College of Nursing | 687,821 | 747,668 |
| College of Pharmacy | 1,471,014 | 1,726,850 |
| Cancer Research and Treatment Center† | <u>7,213,760</u> | <u>8,751,451</u> |
| Sub Total Main Campus | 109,623,005 | 121,291,377 |
| Sub Total Health Sciences Center | <u>50,062,341</u> | <u>54,539,233</u> |
| Total | \$159,685,347 | \$175,830,610 |

*, **, ‡, ‡‡, † See "References," page 32.

Table 12: Award Dollars by Source of Funds: Funds Distribution FY98

| <u>Source</u> | <u>Fin. Aid</u> | <u>Main</u> | <u>HSC</u> | <u>Total</u> | <u>%</u> |
|-----------------------|-----------------|-------------------|------------------|-------------------|------------|
| Federal Agencies | \$15,707,316 | \$60,844,966 | \$30,601,882 | \$107,154,164 | 61% |
| State of New Mexico | 5,485,158 | 9,550,463 | 7,984,464 | 23,020,085 | 13% |
| National Laboratories | 0 | 7,660,718 | 133,874 | 7,794,592 | 4% |
| Industry | 0 | 5,209,285 | 8,678,622 | 13,887,907 | 8% |
| Foundations | 0 | 3,355,653 | 884,805 | 4,240,458 | 2% |
| Other | <u>0</u> | <u>13,477,818</u> | <u>6,255,586</u> | <u>19,733,404</u> | <u>11%</u> |
| Total | \$21,192,474 | \$100,098,903 | \$54,539,233 | \$175,830,610 | 100% |

Table 13: Awards by Campus Area FY98

| <u>Campus Area</u> | <u># of Awards</u> | <u>\$ Amount</u> |
|---|--------------------|--------------------------|
| <i>Main Campus</i> | | |
| Anderson Schools of Management | 5 | \$201,190 |
| College of Arts and Sciences | 274 | 19,824,028 |
| College of Education | 87 | 12,084,440 |
| College of Fine Arts | 1 | 2,000 |
| Division of Continuing Education | 1 | 726,721 |
| School of Architecture and Planning | 6 | 359,000 |
| School of Engineering | 230 | 15,988,460 |
| School of Law | 22 | 1,296,730 |
| Financial Aid | 5 | 21,192,474 |
| Branches | 41 | 3,818,412 |
| UNM Centers/Institutes (Category II)* | 55 | 8,021,438 |
| UNM SRE Centers (Category III)** | 116 | 29,888,201 |
| Other‡ | <u>18</u> | <u>7,888,283</u> |
| <i>Health Sciences Center</i> | | |
| Vice President for HSC and Other‡‡ | 14 | 1,641,321 |
| School of Medicine | 337 | 41,671,943 |
| College of Nursing | 8 | 747,668 |
| College of Pharmacy | 15 | 1,726,850 |
| Cancer Research and Treatment Center† | <u>44</u> | <u>8,751,451</u> |
| Sub Total Main Campus | 861 | 121,291,377 |
| Sub Total Health Sciences Center | <u>418</u> | <u>54,539,233</u> |
| Grand Total | 1,279 | \$175,830,610 |

**, **, ‡, ‡‡, † See "References," page 32.*

Table 14: Funding Agencies Providing More Than \$1M in Support FY98

| Agency | \$ Amount |
|---|--------------|
| National Institutes of Health | \$25,808,069 |
| State of New Mexico | 23,020,085 |
| U.S. Department of Education | 19,266,296 |
| U.S. Air Force | 18,148,909 |
| National Aeronautics and Space Administration | 7,423,208 |
| National Science Foundation | 7,037,443 |
| Department of Energy | 6,590,505 |
| Defense Advanced Research Projects Agency | 5,812,941 |
| Sandia National Laboratories | 4,826,074 |
| Albuquerque Public Schools | 3,460,017 |
| City of Albuquerque | 2,111,286 |
| Center for Disease Control | 1,620,141 |
| New Mexico State University | 1,527,400 |
| Kellogg Foundation | 1,506,640 |
| Office of Naval Research | 1,411,776 |
| U.S. Army | 1,366,992 |
| Veterans Administration Medical Center | 1,311,312 |
| Los Alamos National Laboratory | 1,299,778 |
| Jet Propulsion Laboratory | 1,222,557 |
| Santa Fe Public Schools | 1,218,603 |

Figure 10: Funding Agencies Providing More Than \$1M FY98

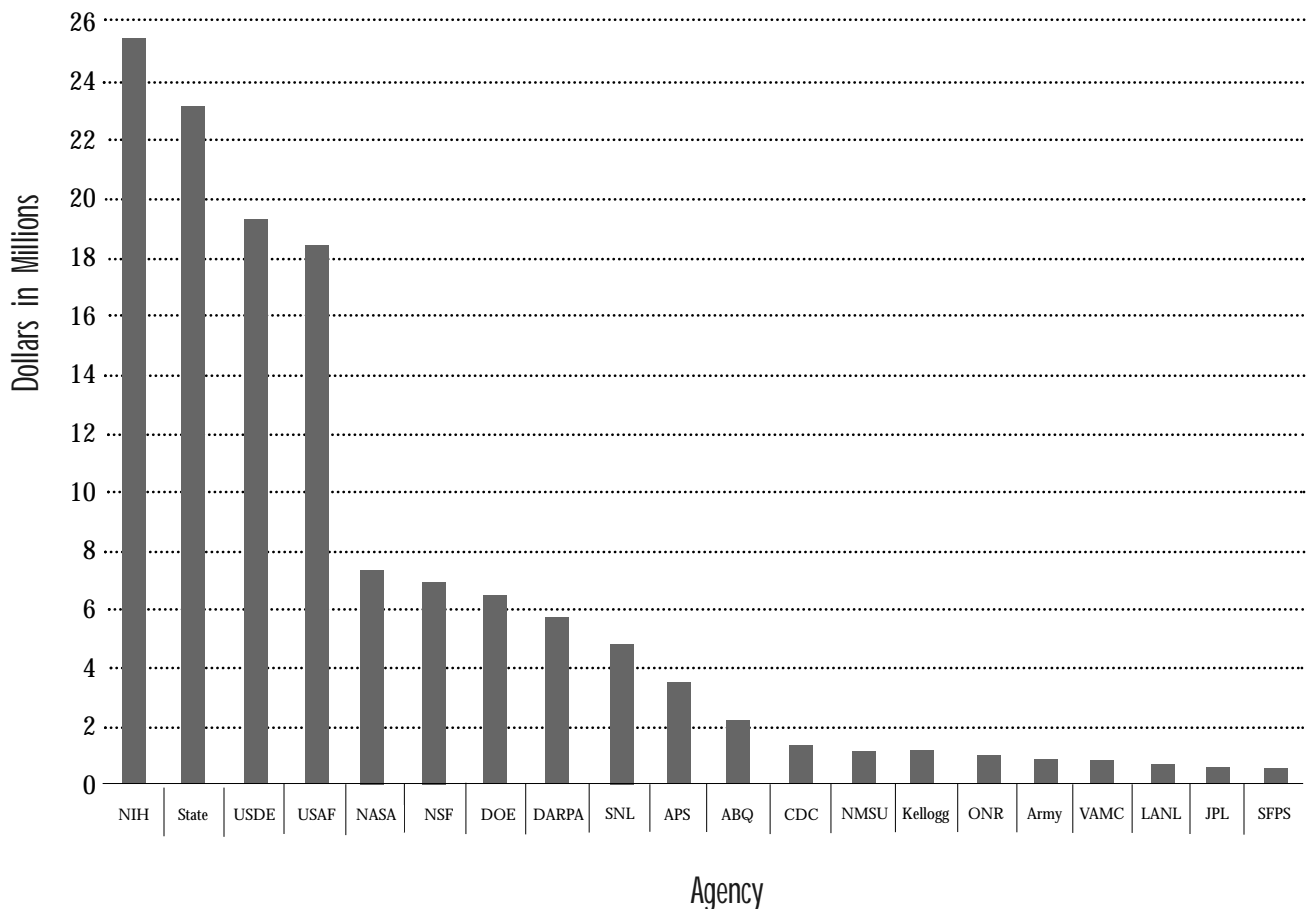
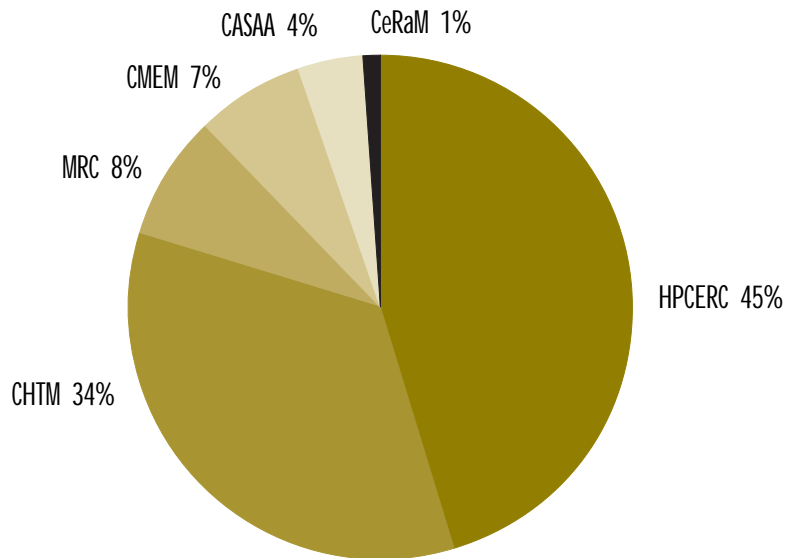
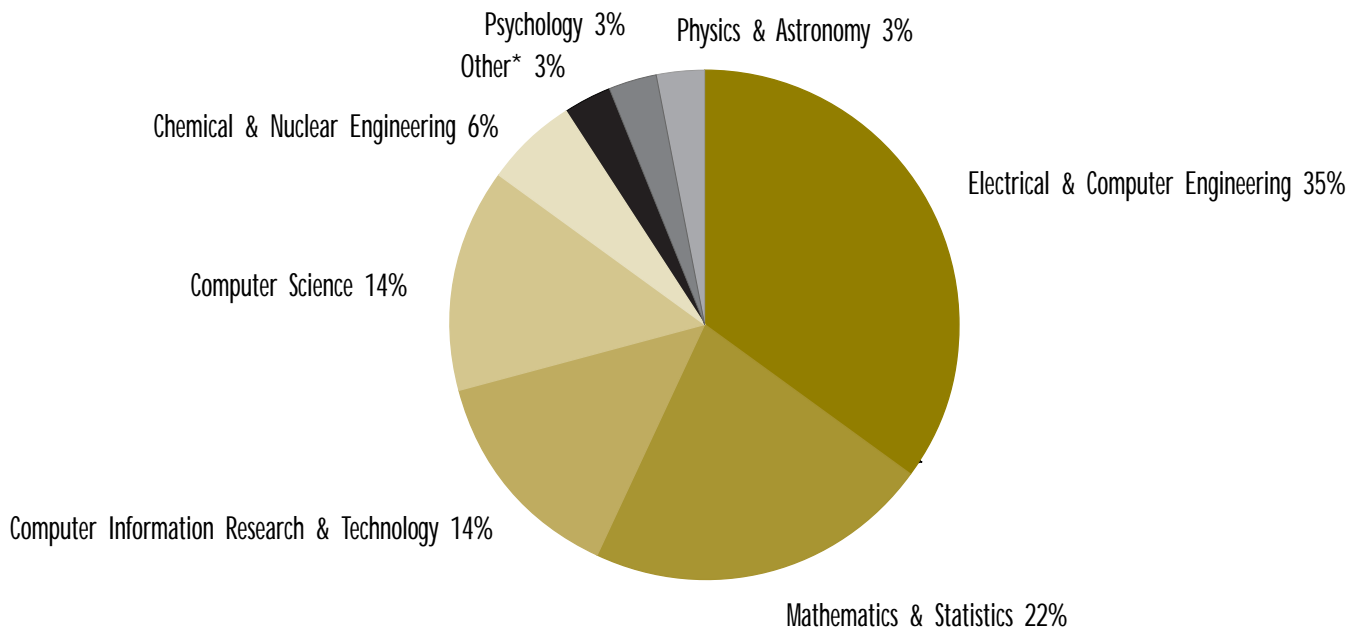


Figure 11: Contract & Grants Awards by Centers FY98



HPCERC = High Performance Computing Education and Research Center; CHTM = Center for High Technology Materials; CASAA = Center on Alcoholism, Substance Abuse and Addictions; CMEM = Center for Micro-Engineered Materials; MRC = Microelectronics Research Center; CeRaM = Center for Radioactive Waste Management.

Figure 12: Contract & Grants Awards for Centers by PI's Department FY98



* *Other* includes Chemistry, Sociology and Communication and Journalism.

funding trends

Figure 13: Five Year Funding Trends by Source of Funds: Federal Awards FY94 - FY98

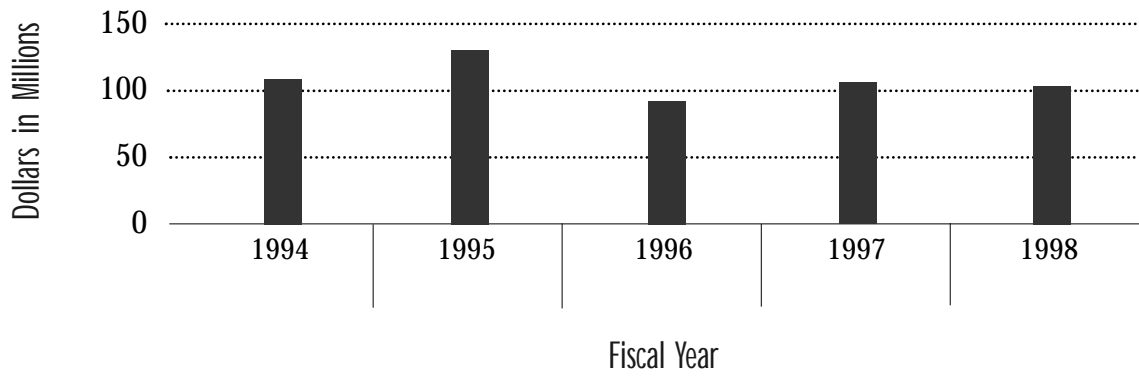


Figure 14: Five Year Funding Trends by Source of Funds: Foundation Awards FY94 - FY98

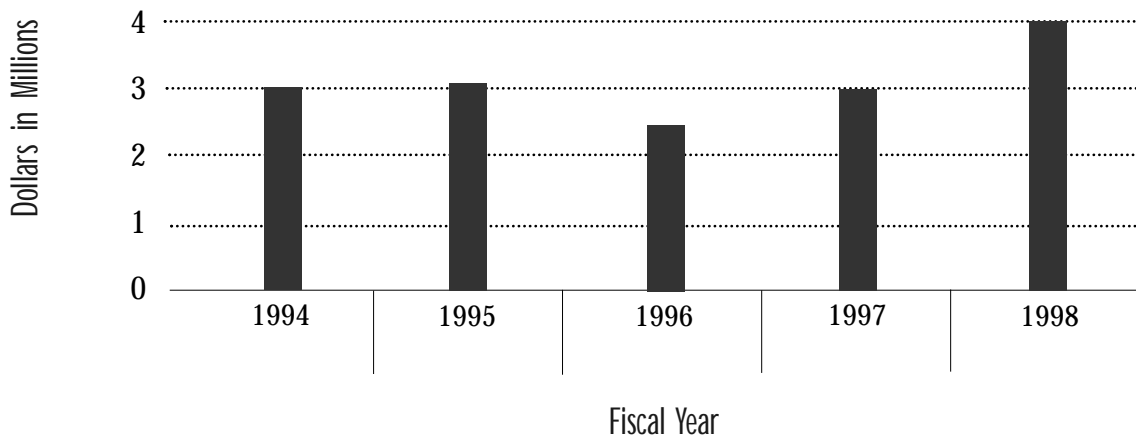


Figure 15: Five Year Funding Trends by Source of Funds: Industry Awards FY94 - FY98

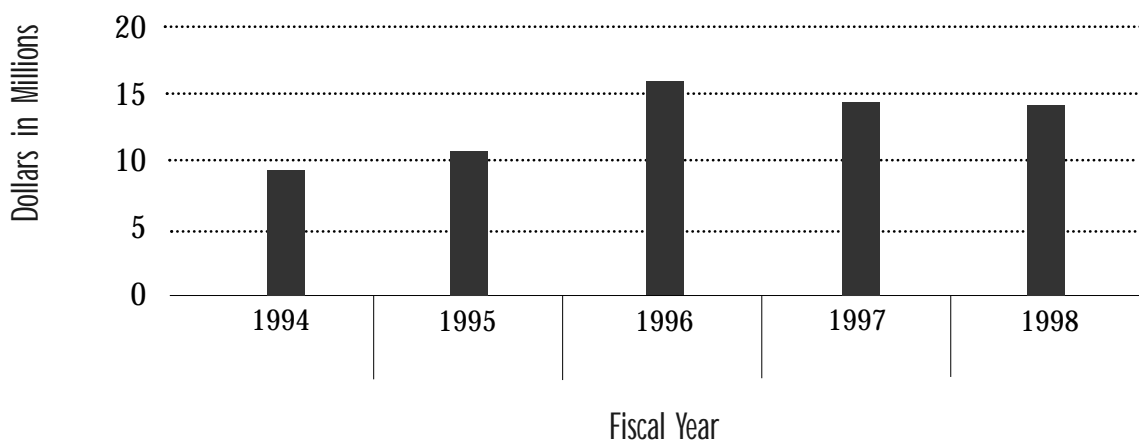


Figure 16: Five Year Funding Trends by Source of Funds: National Lab Awards FY94 - FY98

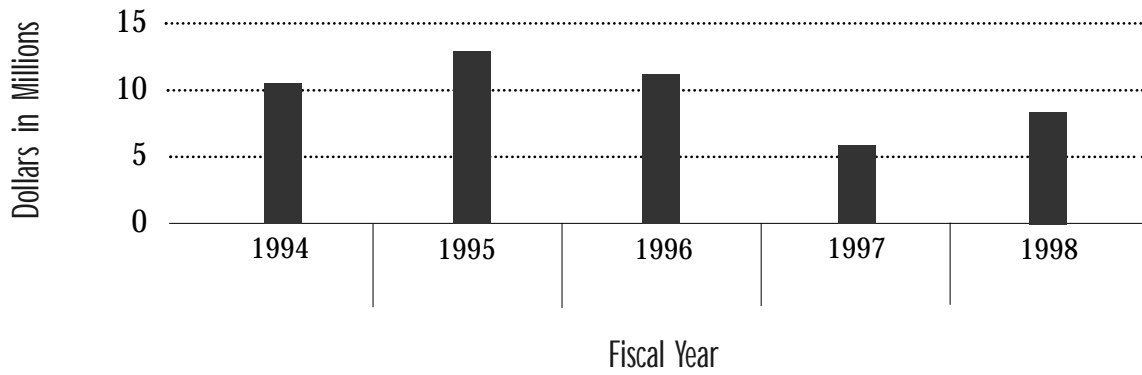


Figure 17: Five Year Funding Trends by Source of Funds: State Awards FY94 - FY98

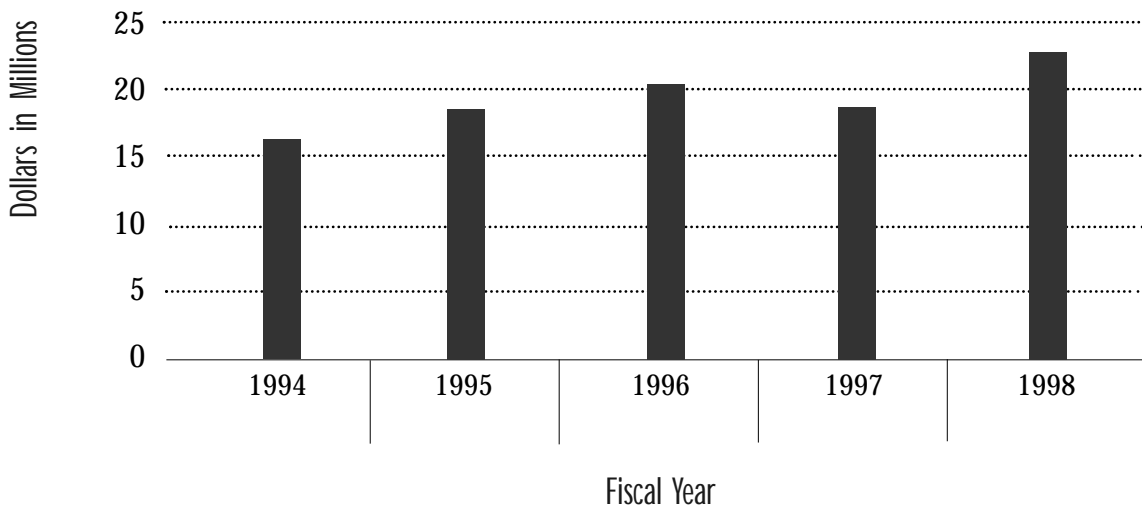
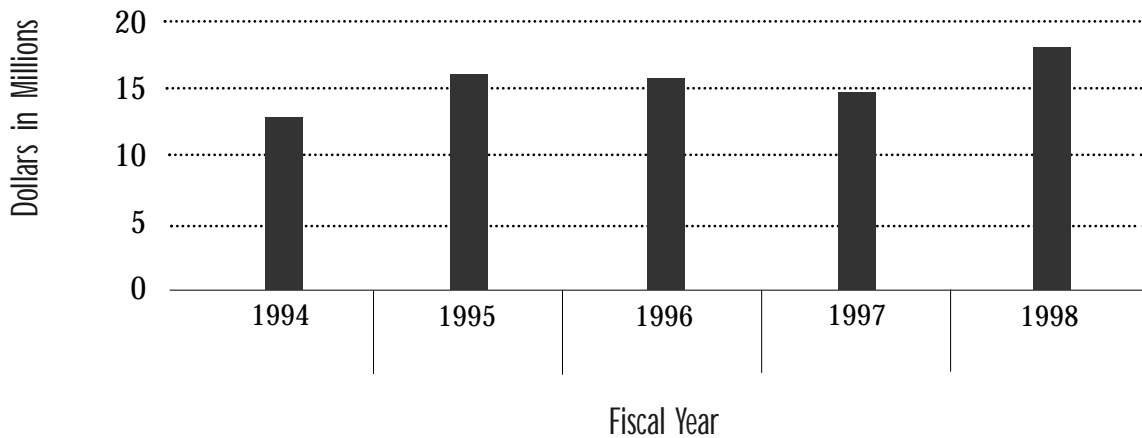


Figure 18: Five Year Funding Trends by Source of Funds: Other Awards FY94 - FY98



proposals

During FY98, 1,680 proposals were submitted by UNM faculty and staff. *Table 15* presents this information in tabular form.

Table 15: Proposals by Campus Area: School, College and Division FY98

| <u>Campus Area</u> | <u>Number of Proposals</u> | <u>\$ Amount Requested</u> |
|---|----------------------------|----------------------------|
| <i>Main Campus</i> | | |
| Anderson Schools of Management | 7 | \$567,673 |
| College of Arts and Sciences | 344 | 56,804,463 |
| College of Education | 93 | 19,511,449 |
| College of Fine Arts | 7 | 42,764 |
| Division of Continuing Education | 3 | 2,813,069 |
| School of Architecture and Planning | 9 | 636,784 |
| School of Engineering | 212 | 24,529,245 |
| School of Law | 23 | 1,248,938 |
| Branches | 65 | 13,643,392 |
| UNM Centers/Institutes (Category II)* | 59 | 11,340,500 |
| UNM SRE Centers (Category III)** | 113 | 33,211,127 |
| Other‡ | 91 | 9,648,308 |
| <i>Health Sciences Center</i> | | |
| Vice President for HSC and Other‡‡ | 17 | 2,591,091 |
| School of Medicine | 508 | 67,924,395 |
| College of Nursing | 11 | 1,509,198 |
| College of Pharmacy | 50 | 3,706,046 |
| Cancer Research and Treatment Center† | 68 | 11,967,130 |
| Sub Total Main Campus | 1,026 | 174,057,712 |
| Sub Total Health Sciences Center | 654 | 87,697,860 |
| Total | 1,680 | \$261,755,572 |

**, **, ‡, ‡‡, † See "References," page 32.*

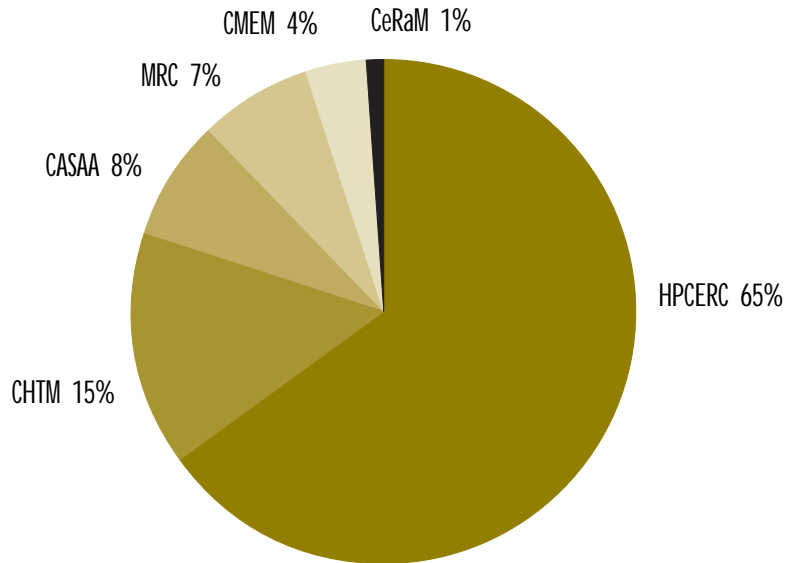
expenditures

During FY98, expenditures at UNM were \$176.2M[◇], of which \$102M were due to the main campus and \$73.8M were due to HSC. This number represents expenses actually incurred for items such as salaries, fringe benefits, materials, services, equipment and travel (excluding F+A costs).

Table 16: UNM Contract and Grant Expenditures FY98

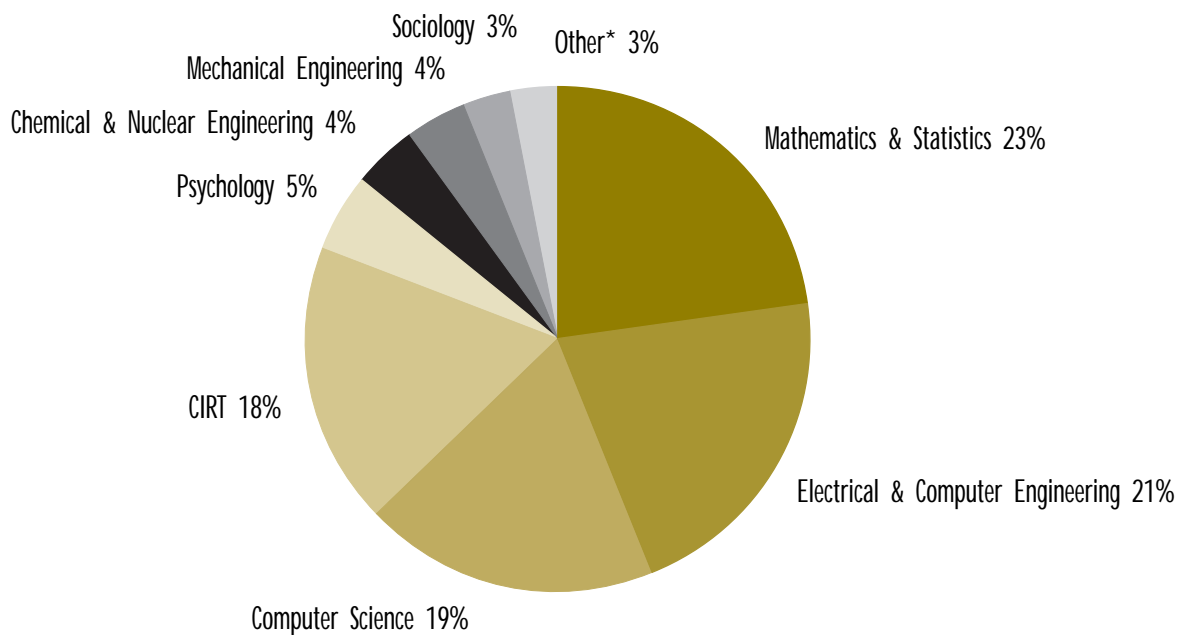
| <u>College/School/Division</u> | <u>Expenditures</u> |
|---|---------------------|
| <i>Main Campus</i> | |
| Anderson Schools of Management | \$100,649 |
| College of Arts and Sciences | 17,265,412 |
| College of Education | 8,561,137 |
| College of Fine Arts | 17,441 |
| Division of Continuing Education | 483,507 |
| School of Architecture and Planning | 44,725 |
| School of Engineering | 14,005,029 |
| School of Law | 943,045 |
| <i>UNM Centers/Institutes (Category II)</i> | |
| Bureau for Business and Economic Research | 175,613 |
| Center on Aging | 75,668 |
| Center for Radioactive Waste Management | 257,208 |
| Division of Government Research | 391,965 |
| Earth Data Analysis Center | 480,993 |
| Latin American and Iberian Institute | 1,109,016 |
| Microelectronics Research Center | 1,973,325 |
| Research Institute for Assistive Technologies | 120,988 |
| Southwest Hispanic Research Institute | 2,169 |
| Systemic Initiatives in Math and Science Education | 763,133 |
| <i>UNM Strategic Research Emphasis Centers (Category III)</i> | |
| Center on Alcoholism, Substance Abuse and Addictions | 2,511,968 |
| Center for High Technology Materials | 5,272,250 |
| Center for Micro-Engineered Materials | 1,308,393 |
| High Performance Computing Education and Research Center | 17,968,260 |
| <i>Branch Campuses</i> | |
| Gallup | 1,165,179 |
| Los Alamos | 428,185 |
| Los Alamos Graduate Center | 304,936 |
| Taos | 29,987 |
| Valencia | 1,030,424 |
| Financial Aid | 21,192,474 |
| Other‡ | 5,358,725 |
| <i>Health Sciences Center</i> | |
| Vice President for HSC and Other‡‡ | 1,536,530 |
| School of Medicine | 65,676,343 |
| College of Nursing | 908,861 |
| College of Pharmacy | 957,604 |
| Cancer Research and Treatment Center† | <u>4,771,050</u> |
| Sub Total Main Campus | 102,393,178 |
| Sub Total Health Sciences Center | <u>73,850,388</u> |
| Total | \$176,243,566 |

Figure 19: Total Expenditures by Centers FY98



HPCERC = High Performance Computing Education and Research Center; CHTM = Center for High Technology Materials; CASAA = Center on Alcoholism, Substance Abuse and Addictions; CMEM = Center for Micro-Engineered Materials; MRC = Microelectronics Research Center; CeRaM = Center for Radioactive Waste Management.

Figure 20: Total Expenditures by Centers Associated with PI's Departments FY98



* *Other* includes Biology, Chemistry, Civil Engineering, Communication and Journalism, Earth and Planetary Sciences, Physics and Astronomy, and Psychiatry.

facilities and administrative costs

Facilities and Administrative Costs (F+A, formerly known as indirect costs or IDC) are overhead funds that are generated while expenditures were incurred during FY98. The following table details the F+A generated by the various colleges, schools and divisions; centers and institutes and branch campuses.

Table 17: F+A Generated FY98

| <u>College/School/Division</u> | <u>F+A</u> |
|---|---------------------|
| <i>Main Campus</i> | |
| Anderson Schools of Management | \$32,314 |
| College of Arts and Sciences | 4,238,941 |
| College of Education | 364,610 |
| College of Fine Arts | 1,544 |
| Division of Continuing Education | 70,274 |
| School of Architecture and Planning | 2,906 |
| School of Engineering | 4,156,066 |
| School of Law | 75,978 |
| <i>Branch Campuses</i> | |
| Gallup | 18,882 |
| Los Alamos | 16,058 |
| Los Alamos Graduate Center | 149,476 |
| Taos | 0 |
| Valencia | 72,661 |
| <i>UNM Centers/Institutes (Category II)</i> | |
| Bureau for Business and Economic Research | 24,487 |
| Center on Aging | 0 |
| Center for Radioactive Waste Management | 226,432 |
| Division of Government Research | 35,951 |
| Earth Data Analysis Center | 122,660 |
| Latin American and Iberian Institute | 67,187 |
| Microelectronics Research Center | 437,388 |
| Research Institute for Assistive Technologies | 3,914 |
| Southwest Hispanic Research Institute | 1,225 |
| Systemic Initiatives in Math and Science Education | 125,962 |
| <i>UNM Strategic Research Emphasis Centers (Category III)</i> | |
| Center on Alcoholism, Substance Abuse and Addictions | 528,211 |
| Center for High Technology Materials | 1,380,167 |
| Center for Micro-Engineered Materials | 318,914 |
| High Performance Computing Education and Research Center | 1,794,784 |
| Other‡ | 466,175 |
| <i>Health Sciences Center</i> | |
| Vice President for HSC and Other‡‡ | 69,017 |
| School of Medicine | 5,636,577 |
| College of Nursing | 81,613 |
| College of Pharmacy | 297,584 |
| Cancer Research and Treatment Center† | 1,439,499 |
| Sub Total Main Campus | 15,330,309 |
| Sub Total Health Sciences Center | 8,544,818 |
| Total | \$23,982,728 |

appendix

THE OFFICE OF RESEARCH SERVICES

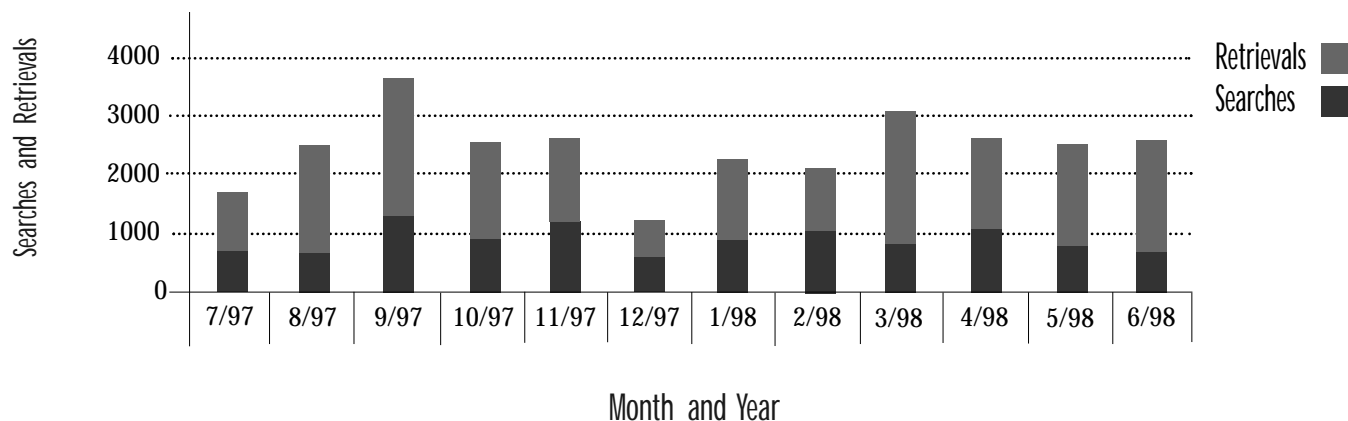
The Office of Research Services (ORS) reviews all proposals from the main campus and branch campuses prior to their submission to funding agencies. The ORS staff works closely with principal investigators to ensure an accurate proposal, with all requisite forms, budgets and certifications, as well as timely turn around. After this internal ORS review, each proposal is signed by the designated University administrator on behalf of the Associate Provost for Research.

Proposals and awards for the Health Sciences Center (HSC) are handled through the Pre-Award Administration Office. The Health Sciences Center includes the School of Medicine, College of Nursing, College of Pharmacy and other programs.

ORS publishes *Research Notes* monthly. *Research Notes* informs readers of limited competitions, changes in rules and regulations and special funding opportunities. ORS is also responsible for various publications including *Faculty Publications and Creative Works*, the *Contract and Grant Awards Report*, the *New Mexico Funding Directory*, *UNM: information overview* and the *Guide for Principal Investigators*.

ORS maintains and develops several databases that are accessible at the ORS Web site including the *GENIUS / SMARTS Researcher Profiling and Funding Matching System*, *MIDAS Databases of Funding Sources* and *CORPS*, the Current Online Restricted Projects System. *GENIUS / SMARTS* allows UNM faculty to record their research profile and receive funding information automatically via email. The UNM research community can access *MIDAS* to read the *NIH Guide*, *Federal Register* or *Commerce Business Daily*, or to search on any number of public and private databases to look for funding sources. Additionally, they can access *CORPS* to determine what contracts and grants are currently being funded on main campus and the branch campuses. Additional information, such as awards and statistics information, current events, limited competitions and policies and procedures, is also available at the ORS Web site (<http://www.unm.edu/~ors>).

Figure 21: MIDAS Usage FY98



references

KEY TO SYMBOLS

◇ *\$176.2M*: approximately 62%, 27%, 11% attributed to research, public service and instruction respectively; see *Figure 7*.

* *UNM Centers/Institutes (Category II)* includes: Bureau of Business and Economic Research, Center on Aging, Center for Radioactive Waste Management, Division of Government Research, Earth Data Analysis Center, Latin American and Iberian Institute, Microelectronics Research Center, Research Institute for Assistive Technologies, Southwest Hispanic Research Center, Systemic Initiative for Math and Science Education.

** *UNM Strategic Research Emphasis Centers (Category III)* includes: Center on Alcoholism, Substance Abuse and Addictions; Center for High Technology Materials; Center for Micro-Engineered Materials; and High Performance Computing, Education and Research Center.

‡ *Other* includes: Computer and Information Resource and Technology, Vice President for Academic Affairs, African American Studies, Associate Provost for Research, Division of Media Technology Services, Economic Development Communications Office, General Honors, General Library, Graduate Studies, Harwood Foundation, KNME-TV, KUNM-FM, Police Department, Special Services Program, Vice President for Student Affairs, Technical Assistance Office and University Art Museum.

‡‡ *Vice President for HSC and Other* includes: Animal Research Facility, Health Sciences Center Library, Health Sciences Ethics Program, Mental Health Center, Carrie Tingley Hospital, Children's Psychiatric Hospital, Health Sciences Associate Vice President for Clinical Affairs and Health Sciences Special Projects.

† *Cancer Research and Treatment Center* includes: New Mexico Tumor Registry.