



2005 Annual Report

Office of Research and Creative Activities

Published by the
OFFICE OF RESEARCH and CREATIVE ACTIVITIES (ORCA)
at Brigham Young University

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Preface

This report covers January 1, 2005 to December 31, 2005.

Included are a number of activities that are carried out by the Office of Research and Creative Activities (ORCA).

- *Reports of Sponsored Programs:* Sponsored programs at BYU are those funded by external sources through ORCA. They are largely research projects, but many include programs that are designed to develop or support instructional or service activities. Support for creative activities such as performance, artistic creations, etc., may also come through ORCA.
- *Administrative Activities in Support of Research and Creative Activities:* ORCA supports several university committees which oversee compliance with university, state, and federal regulations.
- *Recognition for Research and Creative Activities:* This category includes awards to faculty and students made by ORCA, the Graduate School, and some cooperative efforts involving departments, colleges, and central administration.

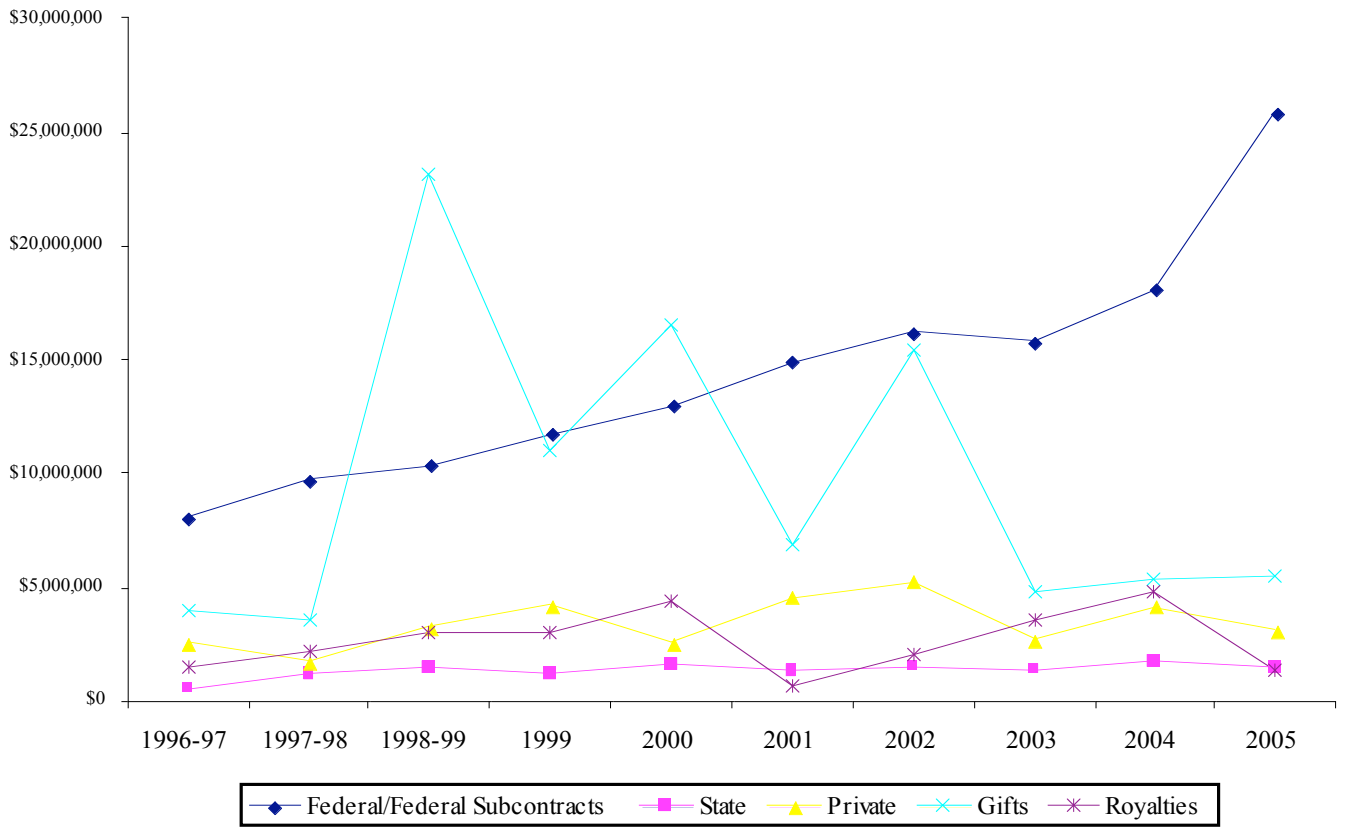
The University

External Research Funding

(All sources including gifts, etc.)

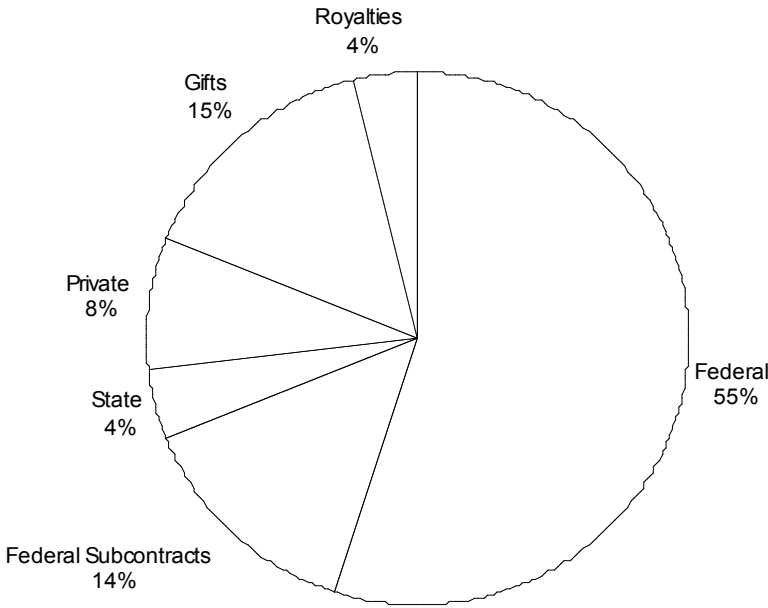
| Year | Grants/Contracts | | | | Gifts | Royalties | Total | %Federal |
|---------|------------------|---------------------|-------------|-------------|---------------|-------------|--------------|----------|
| | Federal | Federal Subcontract | State | Private | | | | |
| 1996-97 | \$5,752,383 | \$2,322,925 | \$571,313 | \$2,561,252 | \$3,969,198 | \$1,528,754 | \$16,705,825 | 49% |
| 1997-98 | \$7,447,875 | \$2,307,126 | \$1,174,691 | \$1,734,226 | \$3,498,303 | \$2,148,956 | \$18,311,177 | 53% |
| 1998-99 | \$7,689,987 | \$2,625,949 | \$1,466,440 | \$3,236,576 | \$23,088,131 | \$3,036,079 | \$41,143,162 | 25% |
| 1999 | \$9,579,892 | \$2,147,400 | \$1,189,443 | \$4,192,998 | \$11,056,985 | \$3,036,079 | \$31,202,797 | 38% |
| 2000 | \$10,786,727 | \$2,194,176 | \$1,551,853 | \$2,525,966 | \$16,585,802 | \$4,386,382 | \$38,030,906 | 34% |
| 2001 | \$12,319,534 | \$2,560,829 | \$1,336,012 | \$4,526,380 | \$6,878,844 | \$699,919 | \$28,291,518 | 53% |
| 2002 | \$12,942,472 | \$3,271,259 | \$1,547,471 | \$5,210,390 | \$15,436,981* | \$2,008,385 | \$40,416,958 | 40% |
| 2003 | \$12,412,311 | \$3,359,540 | \$1,352,811 | \$2,694,628 | \$4,841,134 | \$3,495,245 | \$28,155,669 | 56% |
| 2004 | \$14,330,621 | \$3,741,503 | \$1,708,839 | \$4,137,035 | \$5,324,291 | \$4,812,104 | \$34,054,393 | 42% |
| 2005 | \$20,464,956 | \$5,366,648 | \$1,449,466 | \$3,098,213 | \$5,460,255 | \$1,293,917 | \$37,133,455 | 55% |

* Gift total does not include \$313 million PACE donation to College of Engineering



External Funds by Source—2005

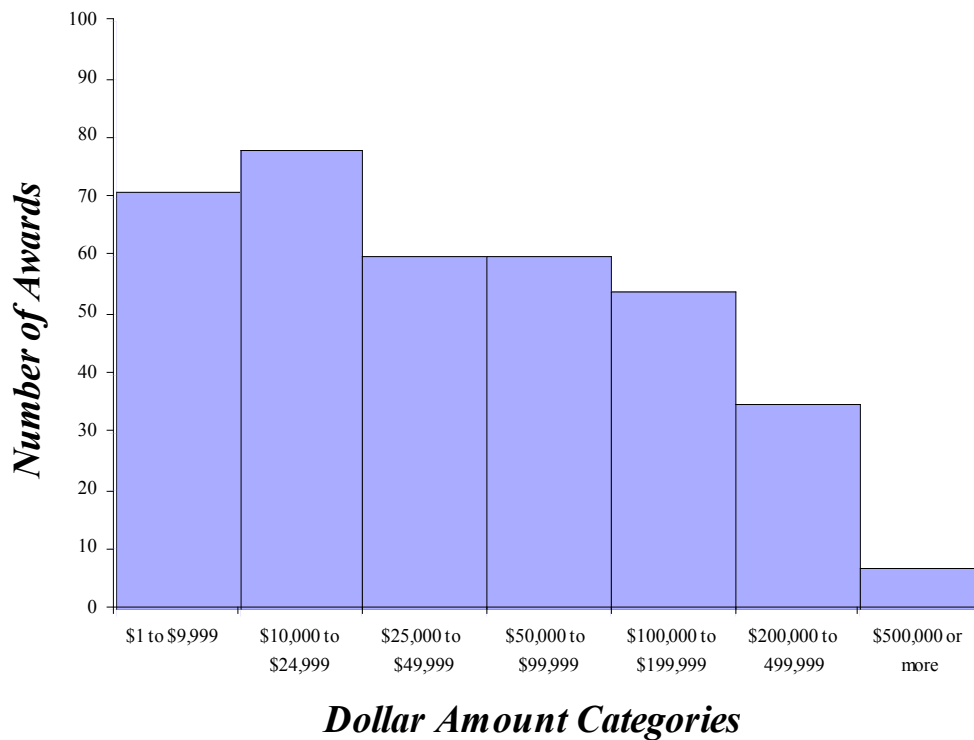
| Source | Amount | % of Total |
|----------------------|---------------------|-------------|
| Federal | \$20,464,956 | 55% |
| Federal Subcontracts | \$5,366,648 | 14% |
| State | \$1,449,466 | 4% |
| Private | \$3,098,213 | 8% |
| Gifts | \$5,460,255 | 15% |
| Royalties | \$1,293,917 | 4% |
| Total Funding | \$37,133,455 | 100% |



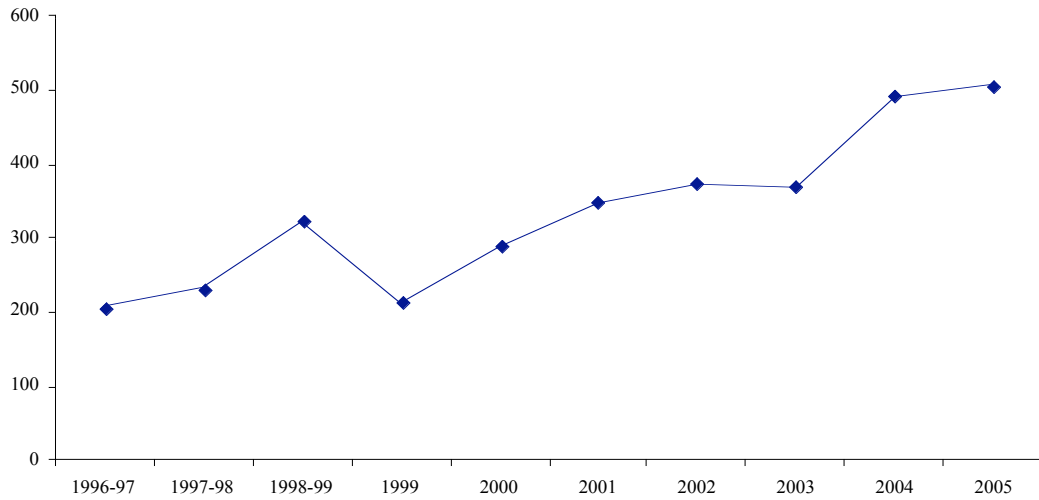
Federal
 Federal Subcontracts
 State
 Private
 Gifts
 Royalties

Grant/Contract Awards by Amount—2005

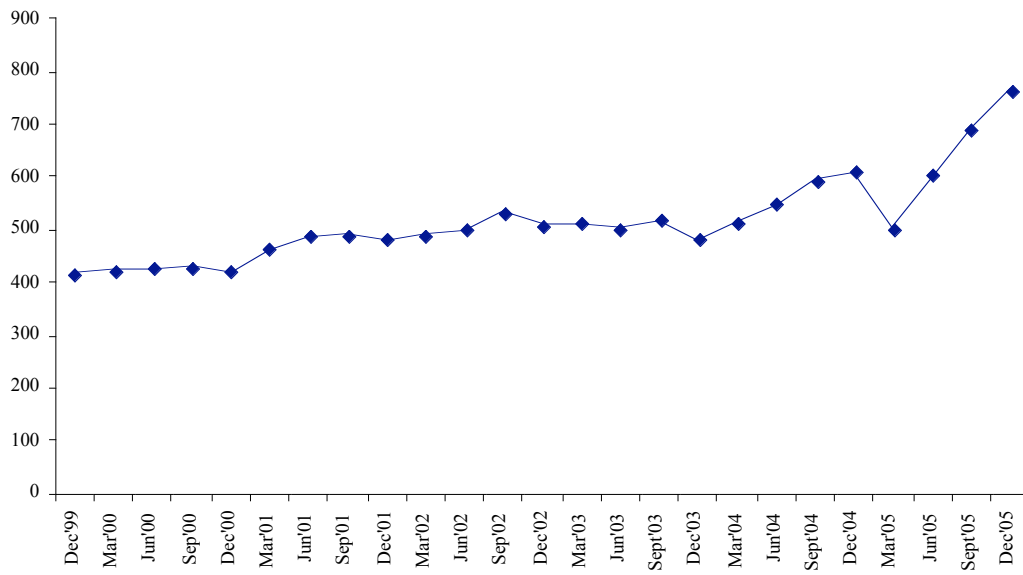
| Dollar Amount Categories | # of Awards | % of Total Awards by # | \$ Awarded | % of Total Awards by \$ |
|--------------------------|-------------|------------------------|---------------------|-------------------------|
| \$1 to \$9,999 | 71 | 19% | \$297,088 | 1% |
| \$10,000 to \$24,999 | 78 | 21% | \$1,274,885 | 4% |
| \$25,000 to \$49,999 | 60 | 17% | \$2,135,688 | 7% |
| \$50,000 to \$99,999 | 60 | 17% | \$4,135,154 | 14% |
| \$100,000 to \$199,999 | 54 | 15% | \$7,258,171 | 24% |
| \$200,000 to \$499,999 | 35 | 9% | \$9,828,329 | 32% |
| \$500,000 or more | 7 | 2% | \$5,449,968 | 18% |
| Totals | 365 | 100% | \$30,379,283 | 100% |



Proposals Submitted

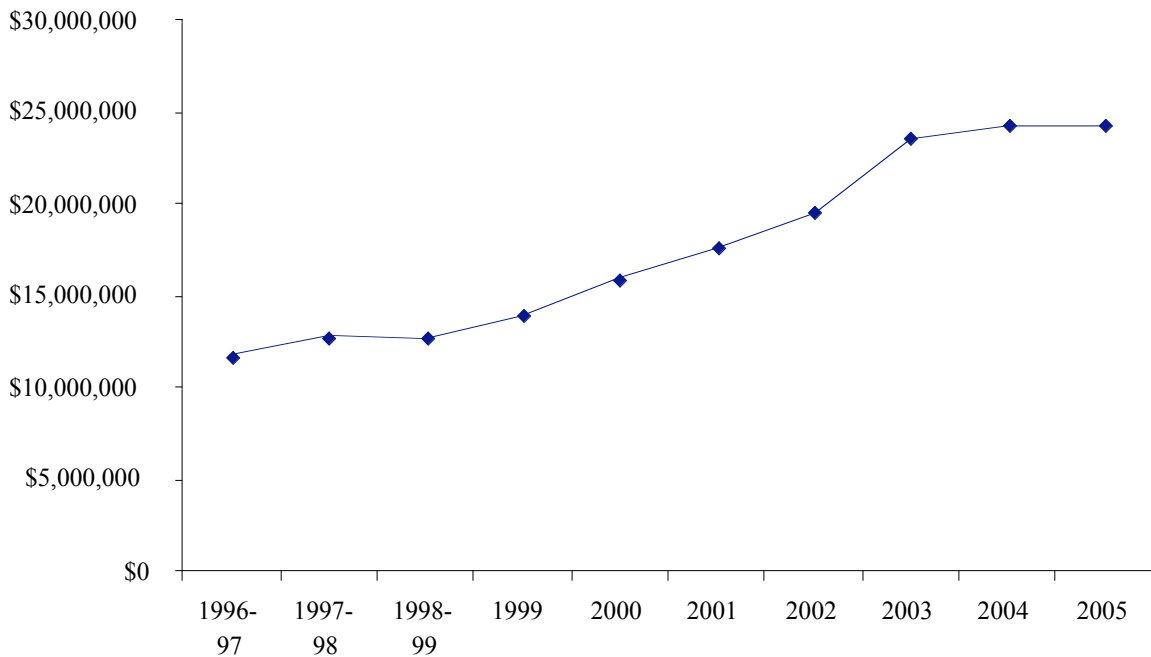


Active Accounts



Total Expenditures (Grants and Contracts)

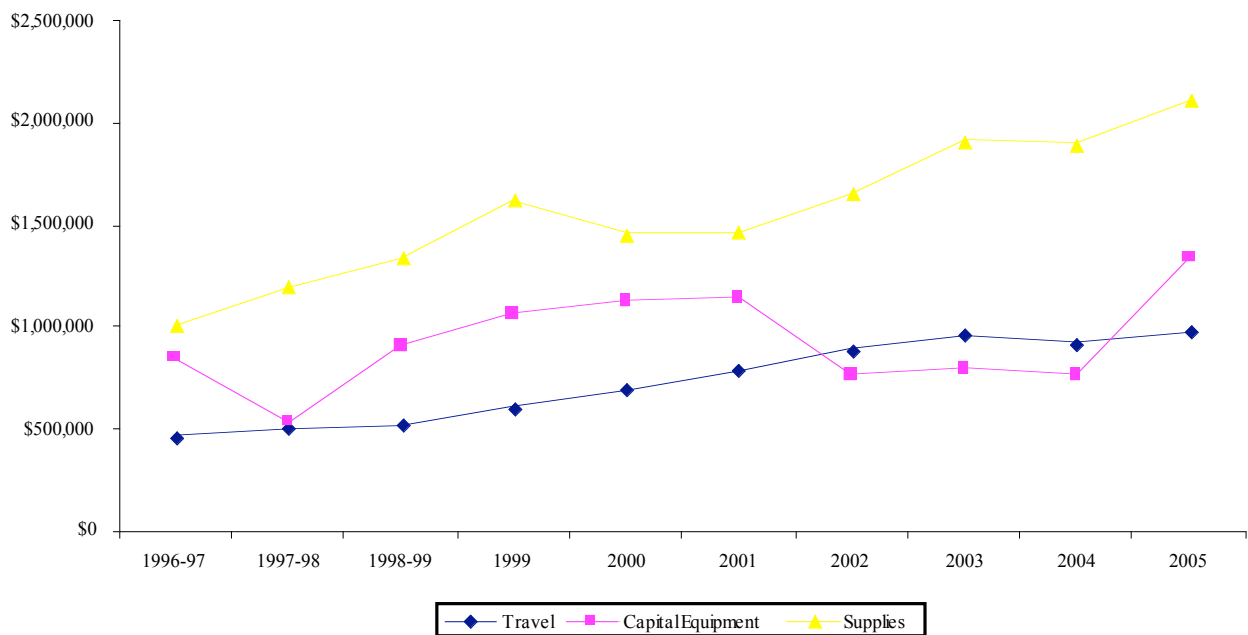
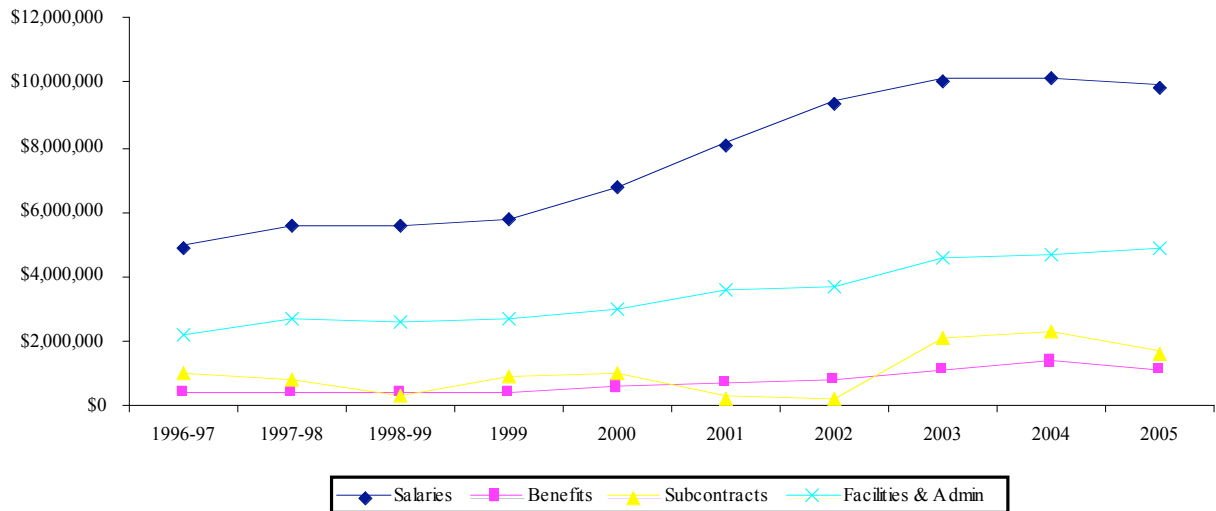
| Year | Total Expenditures |
|---------|--------------------|
| 1996-97 | \$11,779,169 |
| 1997-98 | \$12,795,126 |
| 1998-99 | \$12,690,389 |
| 1999 | \$13,988,008 |
| 2000 | \$15,966,274 |
| 2001 | \$17,652,928 |
| 2002 | \$19,536,264 |
| 2003 | \$23,623,643 |
| 2004 | \$24,339,292 |
| 2005 | \$24,334,391 |



2005 Research Contract/Grant Expenditures by Category

| <i>Personnel Costs</i> | <i>Amount</i> |
|--------------------------------------|---------------------|
| <i>Salaries & Wages</i> | |
| Administrative Salaries | 719,628 |
| Faculty Salaries | 793,336 |
| Faculty—Spring/Summer | 1,596,051 |
| Faculty—Supplemental | 332,312 |
| Faculty—Visiting, Foreign, Post Docs | 1,043,920 |
| Part-time Faculty Salaries | 317,417 |
| Other Wages | 181,389 |
| Staff Salaries | 210,196 |
| Student Contracts | 2,425,987 |
| Student Wages | 2,318,017 |
| Total Salaries & Wages | \$9,938,253 |
| Fringe Benefits | \$1,128,642 |
| Total Personnel Costs | \$11,066,895 |
| <i>Other</i> | |
| Access Equipment | 16,334 |
| Advertising | 722 |
| Capital Equipment | 1,342,597 |
| Computer Services | 752 |
| Conference & Symposium Costs | 97,529 |
| Consultants | 243,208 |
| Contract Services | 141,312 |
| Employee Development/Training | 42,248 |
| Equipment Repair & Maintenance | 23,248 |
| Facilities & Administration | 4,858,554 |
| Facilities Maintenance | 83 |
| Facilities Remodel | 3,906 |
| Fellowships | 158,422 |
| Hosting, Food, Entertainment | 12,119 |
| Non-Computer Non-Capital Equipment | 134,802 |
| Postage & Mailing | 11,154 |
| Printing & Copying | 43,528 |
| Program Income | (30,154) |
| Purchase Discounts Earned | (88) |
| Rental Expense | 86,344 |
| Research Publications Costs | 100,030 |
| Software Purchases | 59,349 |
| Student Aid | 1,095,993 |
| Subcontracts | 1,706,139 |
| Supplies | 2,109,641 |
| Telecommunications | 32,770 |
| Travel | 976,416 |
| Utilities | 552 |
| Total Other Expenditures | \$13,267,496 |
| Total Research Expenditures | \$24,334,391 |

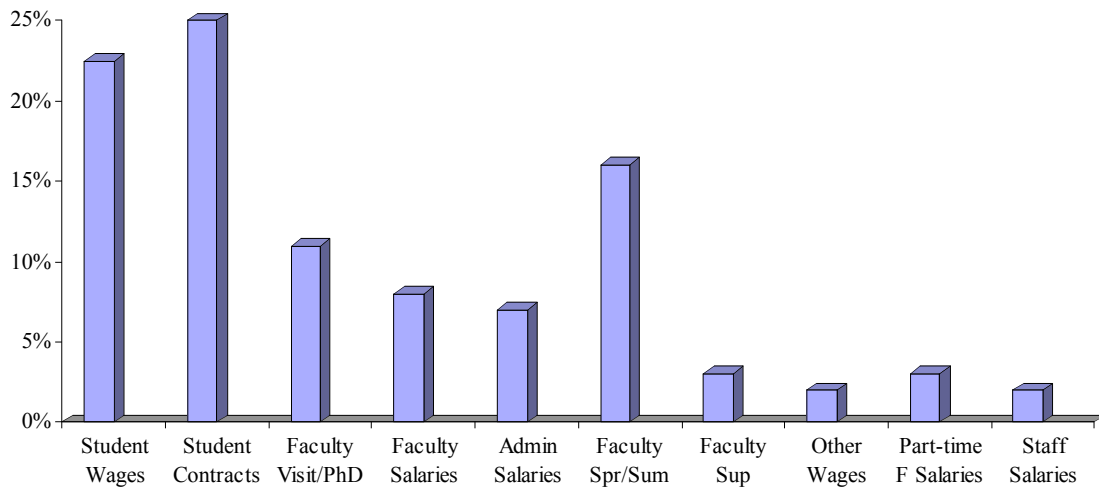
Research Dollars Expended (Grants and Contracts Only)



Salary and Wage Expenditures (Grants and Contracts Only)

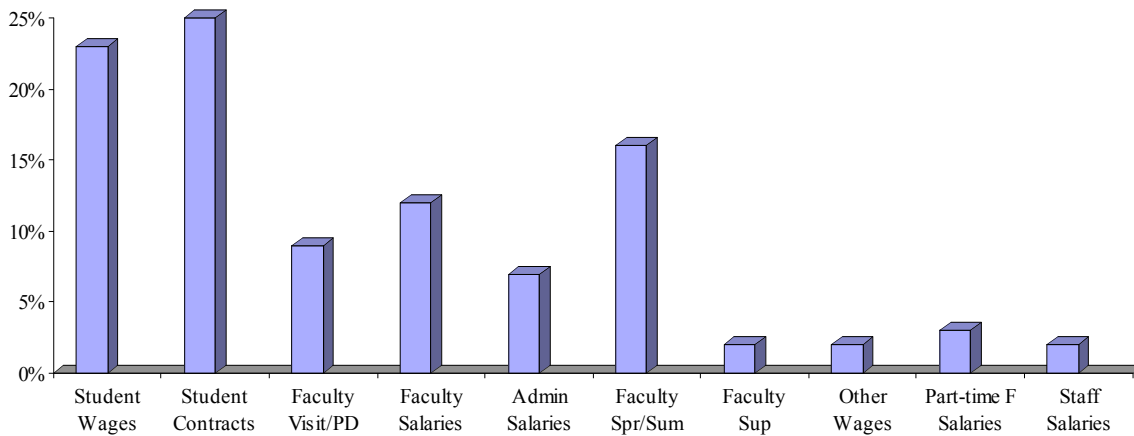
2005

Total: \$9,938,253



2004

Total: \$10,153,611

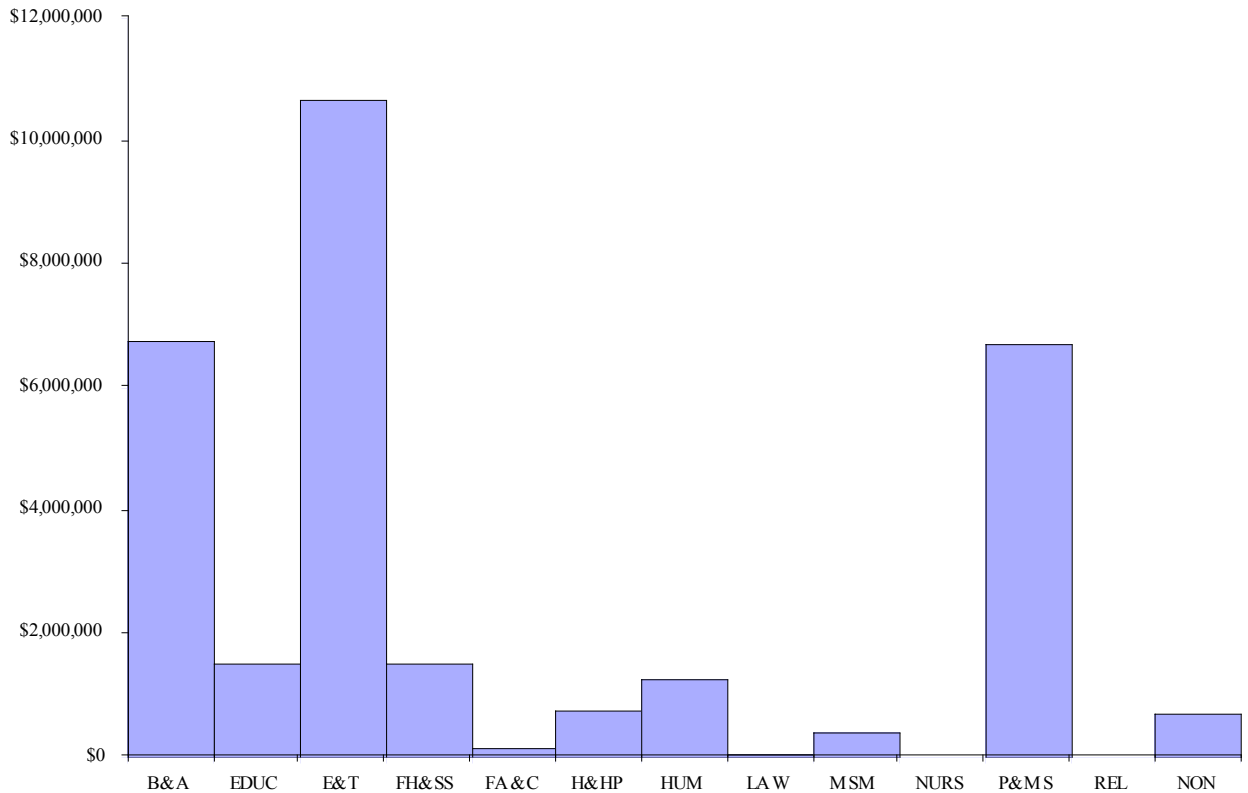




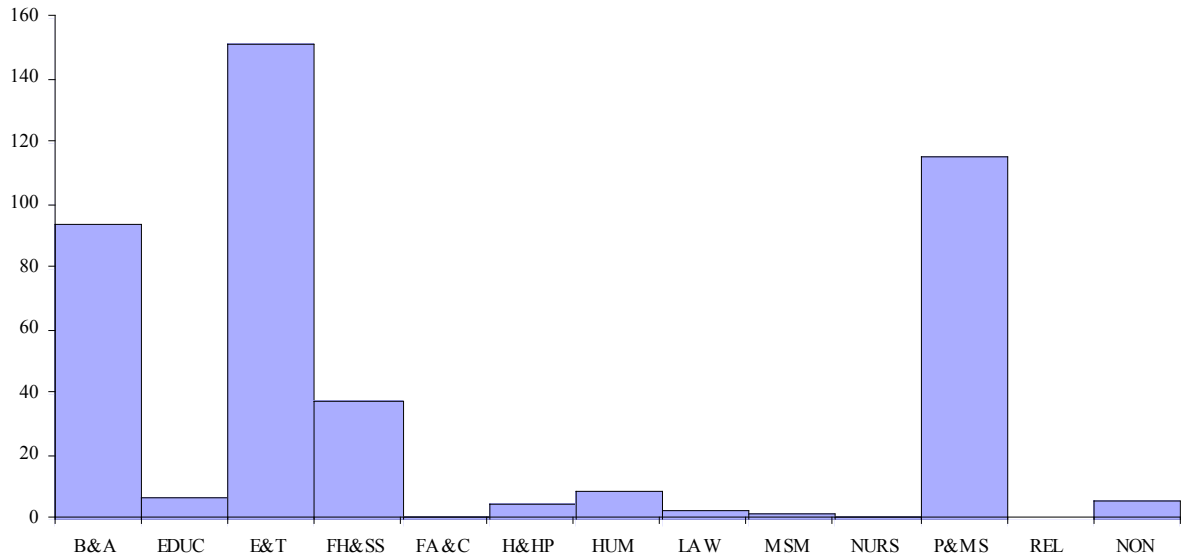
Information by College or School

Award Amount Totals 2005

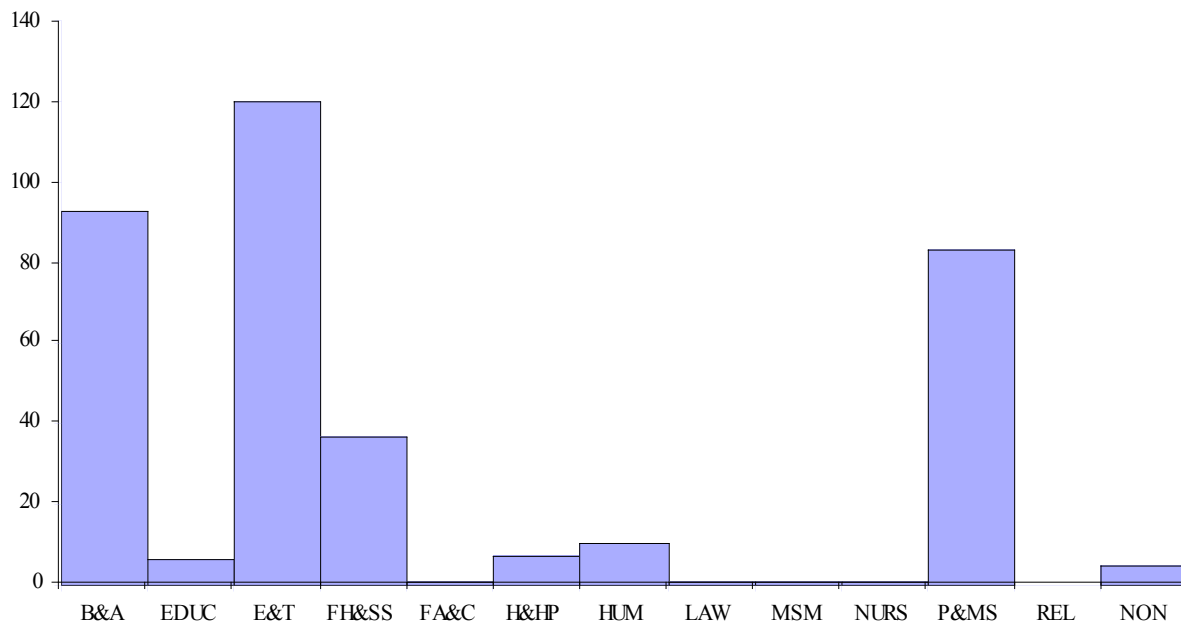
| <i>College or School</i> | <i>Total</i> |
|----------------------------------|---------------------|
| Biology & Agriculture | \$6,730,142 |
| Education | \$1,520,877 |
| Engineering & Technology | \$10,651,375 |
| Family, Home & Social Sciences | \$1,519,668 |
| Fine Arts & Communications | \$162,521 |
| Health & Human Performance | \$745,349 |
| Humanities | \$1,234,468 |
| J. Reuben Clark Law School | \$24,799 |
| Marriot School of Management | \$370,850 |
| Nursing | \$1,080 |
| Physical & Mathematical Sciences | \$6,709,304 |
| Religious Education | \$0 |
| Non-College Units | \$708,850 |
| <i>University Total</i> | \$30,379,283 |



Number of Proposals 2005



Number of Awards 2005



Research Contract/Grant Expenditures by College and Department 2005

| <i>College and Department</i> | <i>Amount</i> |
|---|---------------------|
| <u>Assoc Academic VP</u> | |
| Internship Programs | 15,288 |
| Royalties-Adm | (8,374) |
| Technology Transfer | 19,619 |
| TOTAL | \$ 54,212 |
| <u>Biology & Agriculture</u> | |
| Integrative Biology | 2,665,348 |
| Microbiology-Molecular Biology | 399,094 |
| Monte Bean Life Science Museum | 23,170 |
| Nutrition-Dietetic-Food Science | 234,094 |
| Physiology-Developmental Biology | 892,385 |
| Plant and Animal Sciences | 160,761 |
| TOTAL | \$ 4,374,852 |
| <u>Education</u> | |
| Audiology-Speech-Lang Pathology | 37,394 |
| Cites | 108,848 |
| Counseling & Special Education | 171,156 |
| Teacher Education | 301,631 |
| TOTAL | \$ 619,029 |
| <u>Engineering & Technology</u> | |
| Chemical Engineering | 1,745,104 |
| Civil and Environmental Eng | 2,053,792 |
| Electrical and Computer Eng | 2,370,269 |
| Mechanical Engineering | 3,286,321 |
| School of Technology | 121,681 |
| TOTAL | \$ 9,577,167 |
| <u>Family Home & Social Sciences</u> | |
| Anthropology | 112,588 |
| Economics | 1,794 |
| Geography | 11,880 |
| History | 68,139 |
| Museum of Peoples and Cultures | 80,635 |
| Office of Public Archeology OPA | 52,471 |
| OPA Administration | 82,881 |
| Political Science | 537,534 |
| Psychology | 469,294 |

| <i>College and Department</i> | <i>Amount</i> |
|--|----------------------|
| School of Family Life | 55,986 |
| Smith Institute | 97,190 |
| Social Work | 12,317 |
| Sociology | 11,167 |
| TOTAL | \$ 1,593,875 |
| <u>Health & Human Performance</u> | |
| Health Sciences | 319,672 |
| Exercise Science | 310,220 |
| TOTAL | \$ 629,892 |
| <u>Humanities</u> | |
| Asian & Near East Languages | 17,483 |
| Center for Language Studies | 528,268 |
| Humanities, Classic, Comp Lit | 7,575 |
| Linguistics | 191,979 |
| TOTAL | \$ 745,305 |
| <u>International Affairs Vice President</u> | |
| Kennedy International Center | 756,920 |
| TOTAL | \$ 756,920 |
| <u>J. Reuben Clark Law School</u> | \$ 5,224 |
| <u>Library</u> | \$ 20,585 |
| <u>Marriott School of Management</u> | |
| Center for International Management | 1,141,381 |
| Marriott School of Management | (689,763) |
| TOTAL | \$ 451,618 |
| <u>Nursing</u> | \$ 205 |
| <u>Physical & Math Sciences</u> | |
| Chemistry and Biochemistry | 3,269,533 |
| Computer Science | 710,034 |
| Geology | 245,249 |
| Mathematics | 162,609 |
| Physics & Astronomy | 1,028,280 |
| Statistics | 89,800 |
| TOTAL | \$ 5,505,505 |
| Grand Total | \$ 24,334,391 |