

University of New Hampshire



Annual Report

**Research and Other Competitive
Sponsored Programs Awards for
Fiscal Year 2003**

September 1, 2003

Dear Colleagues,

I am pleased to present the Fiscal Year 2003 University of New Hampshire Research and Other Competitive Sponsored Programs Report, reflecting a minor increase in total awards from \$85.8 million in FY02 to \$86.2 million in FY03. Although bottom line growth was minor, it is interesting that direct support from our federal sponsors increased by 7%, and funded collaborations with other universities and colleges increased by 21%. (The latter funds are primarily federally-sourced.)

The U.S. Department of Commerce (DOC) remained as UNH's largest sponsor, growing to \$26.8 million (31%) of the total, supporting these ongoing major programs:

- Atmospheric Investigations of Regional Models of Prediction (AIRMAP)
- Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET)
- Cooperative Institute for Northeast Mariculture (CINEMAR)
- Joint Hydrographic Center
- Northeast Consortium (cooperative research projects involving commercial fishermen and vessels)
- Open Ocean Aquaculture
- New Hampshire Sea Grant
- Coastal Ocean Observation and Analysis
- Oil Spill Response Research and Development
- Instrumentation for Measuring Wind Profiles from Space
- Great Bay National Estuarine Research Reserve Monitoring

In addition, in FY03 the DOC through its NTIA awarded UNH \$1.2 million for a statewide digital conversion project for New Hampshire Public Television.

The National Aeronautics and Space Administration (NASA) was again UNH's second largest sponsor, with \$10.75 million, up 26% from FY02. Most of the NASA funding supports projects in UNH's Institute for the Study of Earth, Oceans, and Space (EOS), and includes the following large projects, to mention a few:

- NH Space Grant Consortium
- Soil biogeochemistry of carbon, nutrients, and trace gas
- STEREO in situ magnetic fields, ions, and composition investigations
- Changes in biogeochemical systems
- Cluster Electron Drift Instrument (EDI)
- Development of CZT strip detectors
- Theoretical studies on the solar atmosphere and solar wind
- Large scale biosphere/atmosphere science

The US Department of Health and Human Services (DHHS) remained as UNH's 3rd largest sponsor at \$6 million in FY03. DHHS continues its support of the Center for Structural Biology, a Biomedical Research Infrastructure Network (BRIN) that involves collaborations with other USNH institutions and

Dartmouth College. The US Department of Justice provided \$5.83 million in FY03, a 13.8% increase over FY02, continuing support for the UNH Center for Research on Crimes Against Children, and for CATLAB – Consolidated Advanced Technologies for Law Enforcement. The National Science Foundation provided \$5.82 million in FY03, up 21%, in support of 45 single-investigator awards.

The US Department of Education continued its support of UNH's TRIO programs, with new funding in FY03 for the McNair Graduate Opportunity Program and the Student Support Services Program, as well as funding for 7 projects for UNH's Institute on Disability programs. The US Environmental Protection Agency continued its support in FY03 for the Bedrock Bioremediation Center and the New England Regional Small Water Supply Technical Assistance Center.

Funding from our New Hampshire state agency partners dropped 20% to \$6.9 million. Support from UNH's largest NH sponsor, the Department of Health & Human Services, dropped 14.5% to \$3.3 million. NH DHHS provides key support for the Institute on Disability, the NH Institute for Health Policy and Practice, and Cooperative Extension, which in turn all deliver highly valuable services of direct import to the citizens of our state. The NH Department of Resources and Economic Development continued its support for the NH Small Business Development Center (SBDC), affiliated and housed with UNH. Along with federal support from the US Small Business Administration, the SBDC provides business counseling and education services to the numerous NH small businesses, thus stimulating our state's economy. The NH Department of Transportation provided no support for UNH programs in FY03, down from \$1 million in FY02.

Awards from business and industry sponsors decreased \$2.7 million (33%) from FY02, to about \$5.4 million, reflecting constraints many companies have placed on their out-sourced research and development contracts. This decrease, in conjunction with the drop in New Hampshire state agency sponsorship, offset UNH's gains from direct and indirect federal sponsorship during FY03. In FY04 the UNH Office of the Vice President for Research and Public Service intends to continue its strategic plan to strengthen UNH's partnerships with our New Hampshire state partners, and expand support from the commercial and non-profit sectors.

Details on all projects funded in FY03 are to be found in the pages that follow. Please contact me at the above address, by e-mail: k.cataneo@unh.edu, or by telephone at (603) 862-2001 if you have questions or comments about this report. Thanks to all those who wrote proposals and congratulations to those whose proposals were funded.

With best regards,

Kathryn B. Cataneo
Executive Director

Annual Report

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Numbers of Proposals and Award Authorizations (10 years)

Total Award Dollars (10 years)

Fiscal Year 2003 Awards (Detail Listings) Not Available

By Sponsor Type

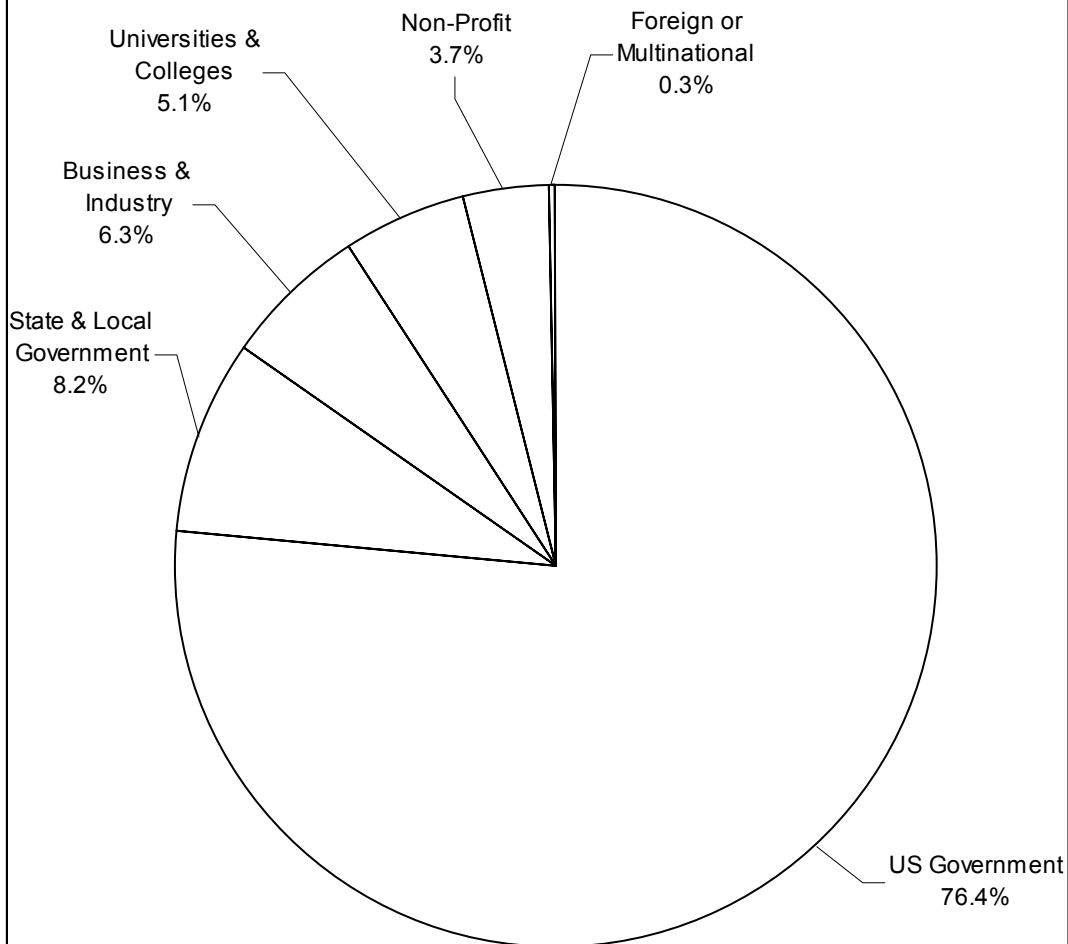
By Project Director

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Abbreviations

UNIVERSITY OF NEW HAMPSHIRE RESEARCH AND OTHER SPONSORED PROGRAMS AWARDS

By Sponsor Type

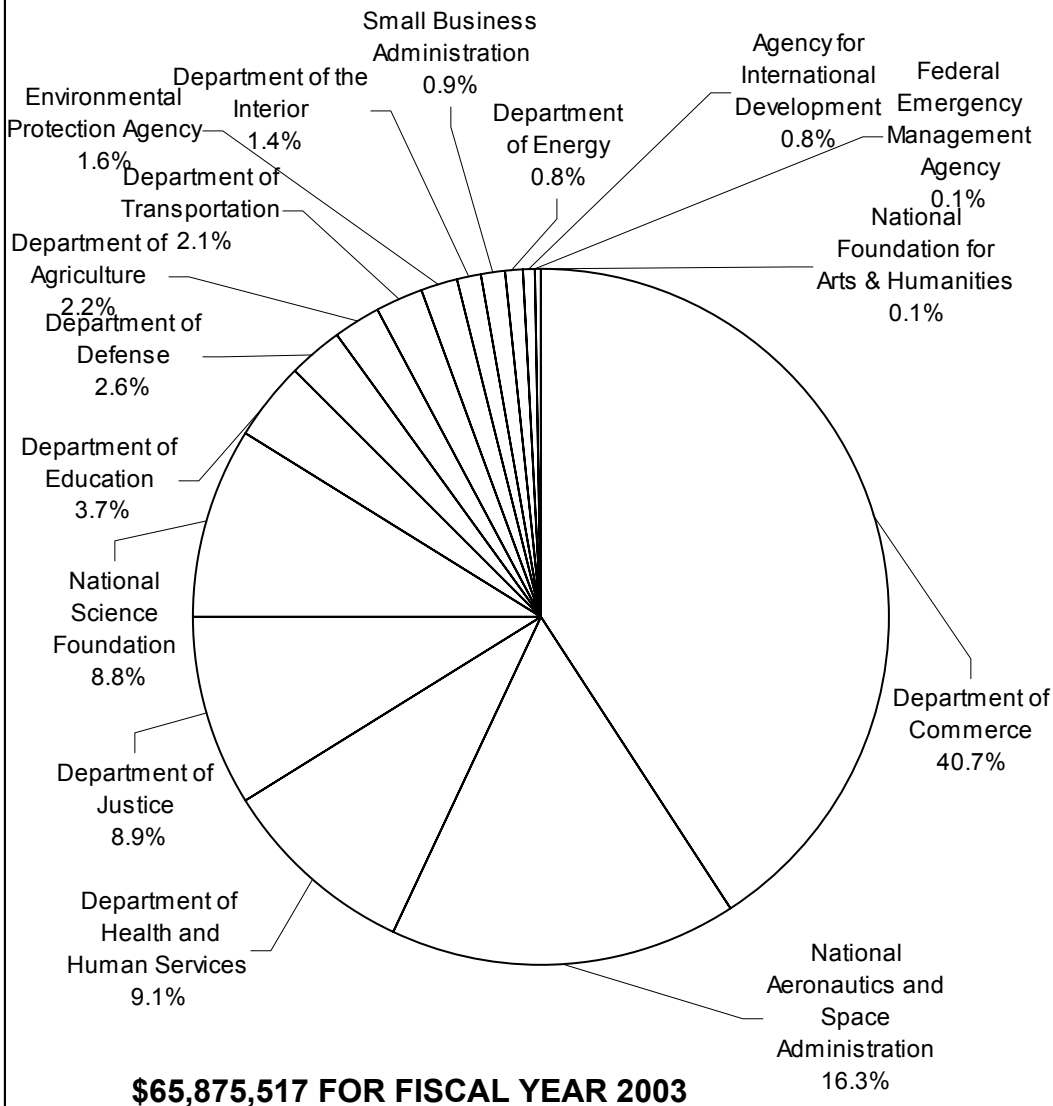


\$86,226,529 FOR FISCAL YEAR 2003

UNIVERSITY OF NEW HAMPSHIRE

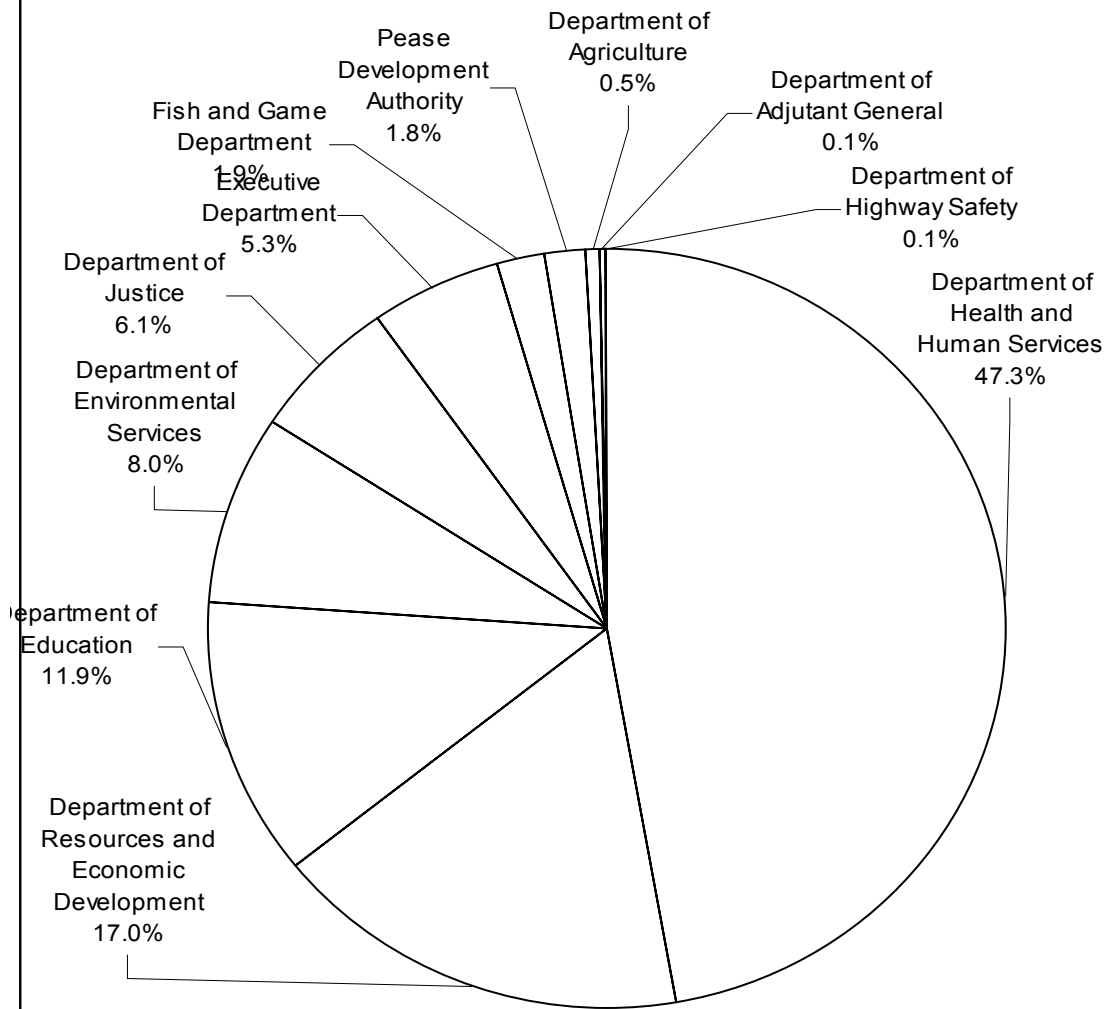
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By US Government Sponsor



UNIVERSITY OF NEW HAMPSHIRE RESEARCH AND OTHER SPONSORED PROGRAMS AWARDS

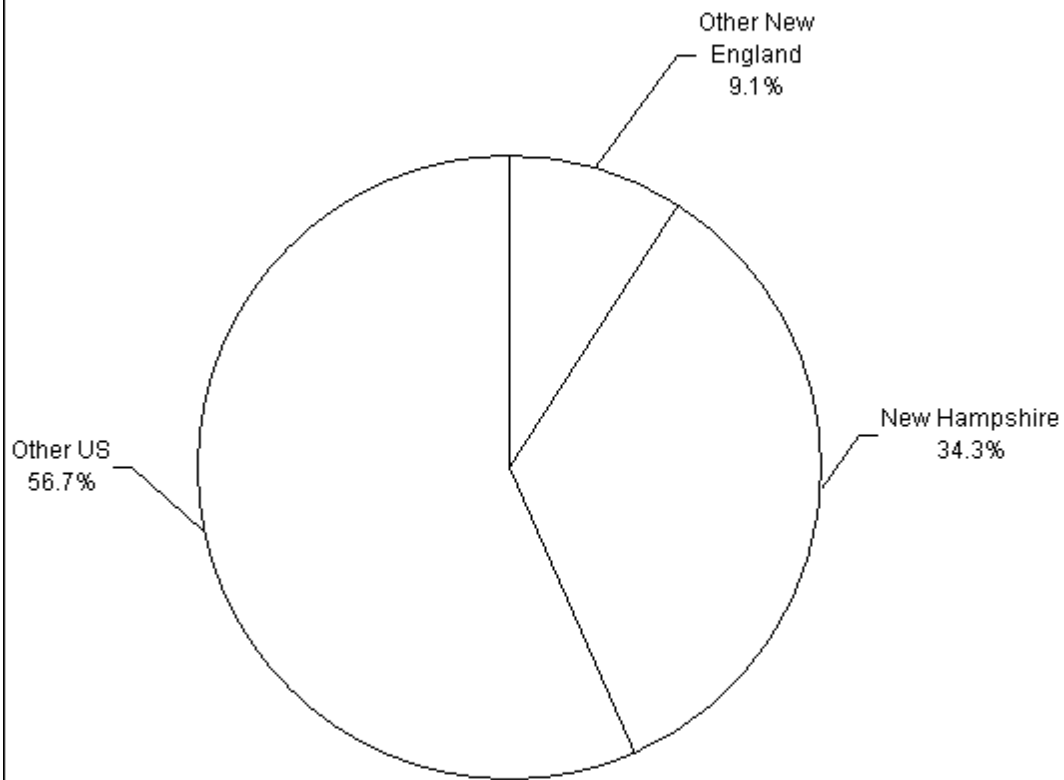
By NH State Government Sponsor



\$6,901,452 FOR FISCAL YEAR 2003

**UNIVERSITY OF NEW HAMPSHIRE
RESEARCH AND OTHER SPONSORED
PROGRAMS AWARDS**

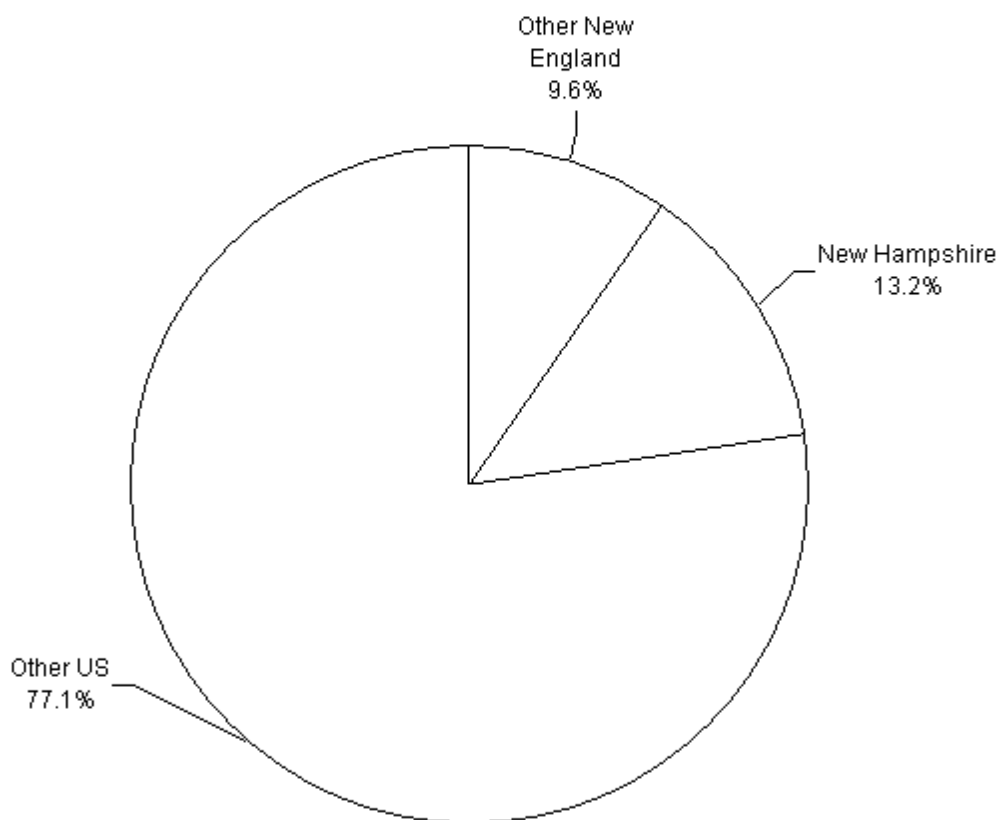
By US Non-profit Sponsor Location



\$3,158,983 FOR FISCAL YEAR 2003

**UNIVERSITY OF NEW HAMPSHIRE
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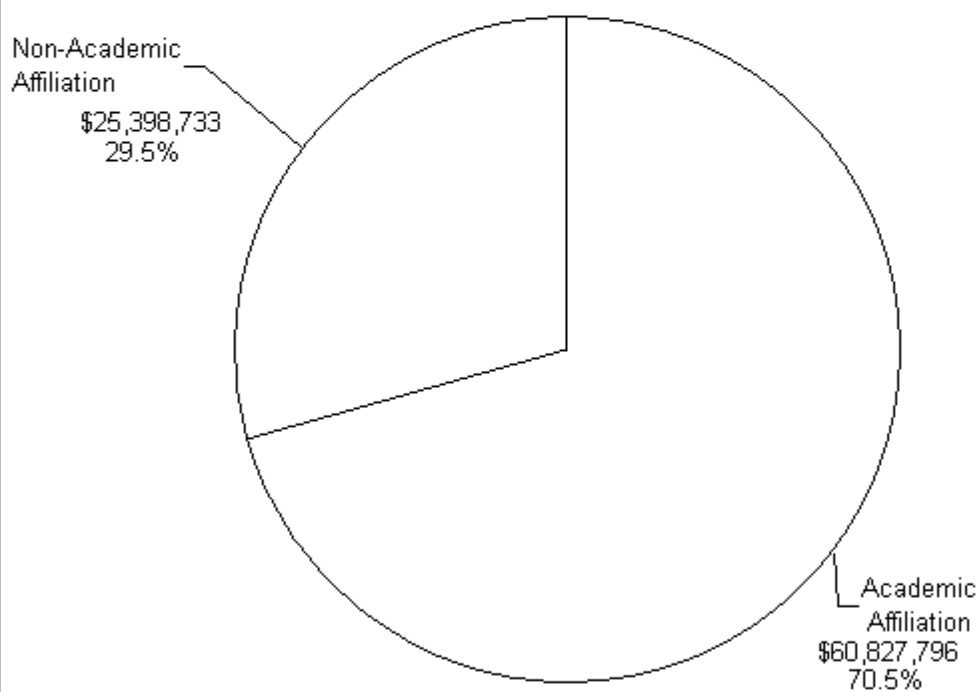
By US Business & Industry Sponsor Location



\$5,450,482 FOR FISCAL YEAR 2003

**UNIVERSITY OF NEW HAMPSHIRE
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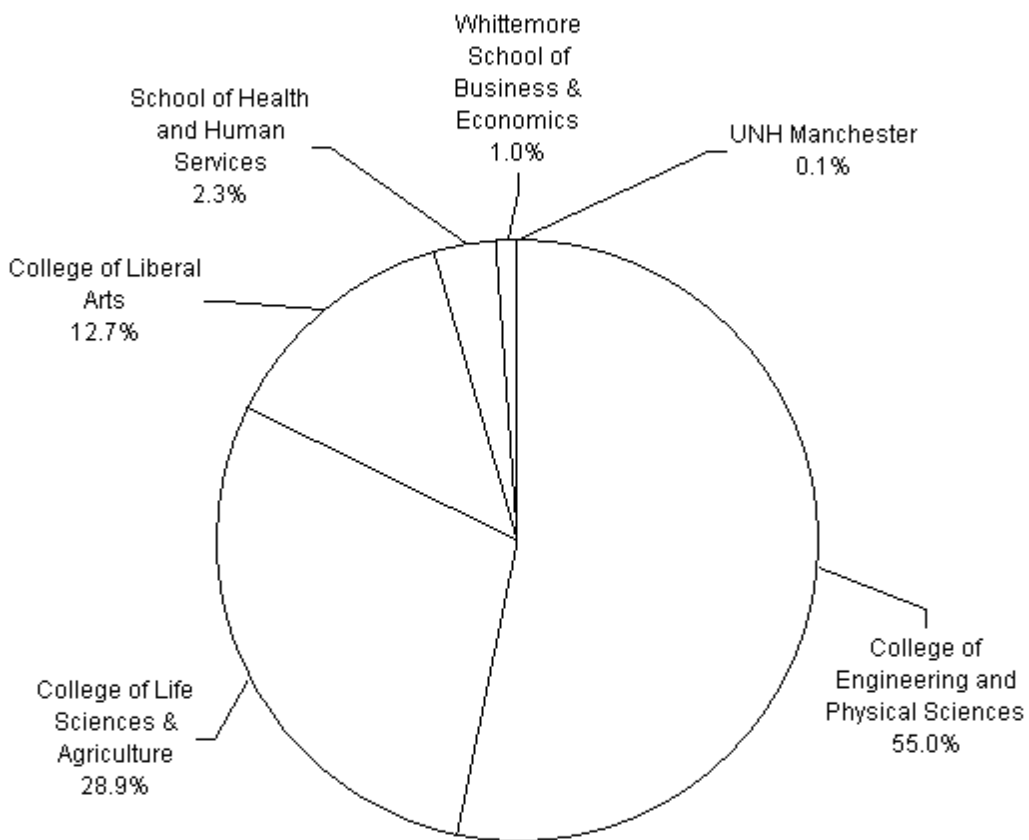
By Project Director Affiliation



\$86,226,529 FOR FISCAL YEAR 2003

**UNIVERSITY OF NEW HAMPSHIRE
RESEARCH AND OTHER SPONSORED
PROGRAMS AWARDS**

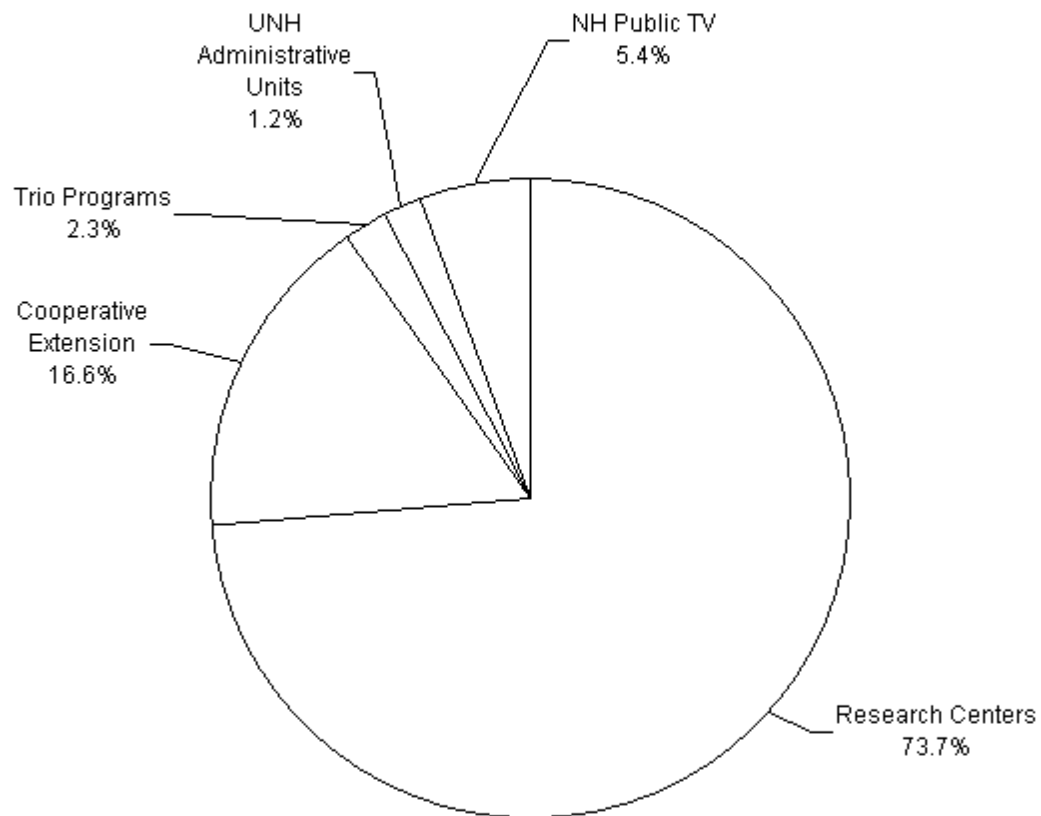
By Project Director Academic Affiliation



\$60,827,796 FOR FISCAL YEAR 2003

**UNIVERSITY OF NEW HAMPSHIRE
RESEARCH AND OTHER SPONSORED
PROGRAMS AWARDS**

By Project Director Non-Academic Affiliation

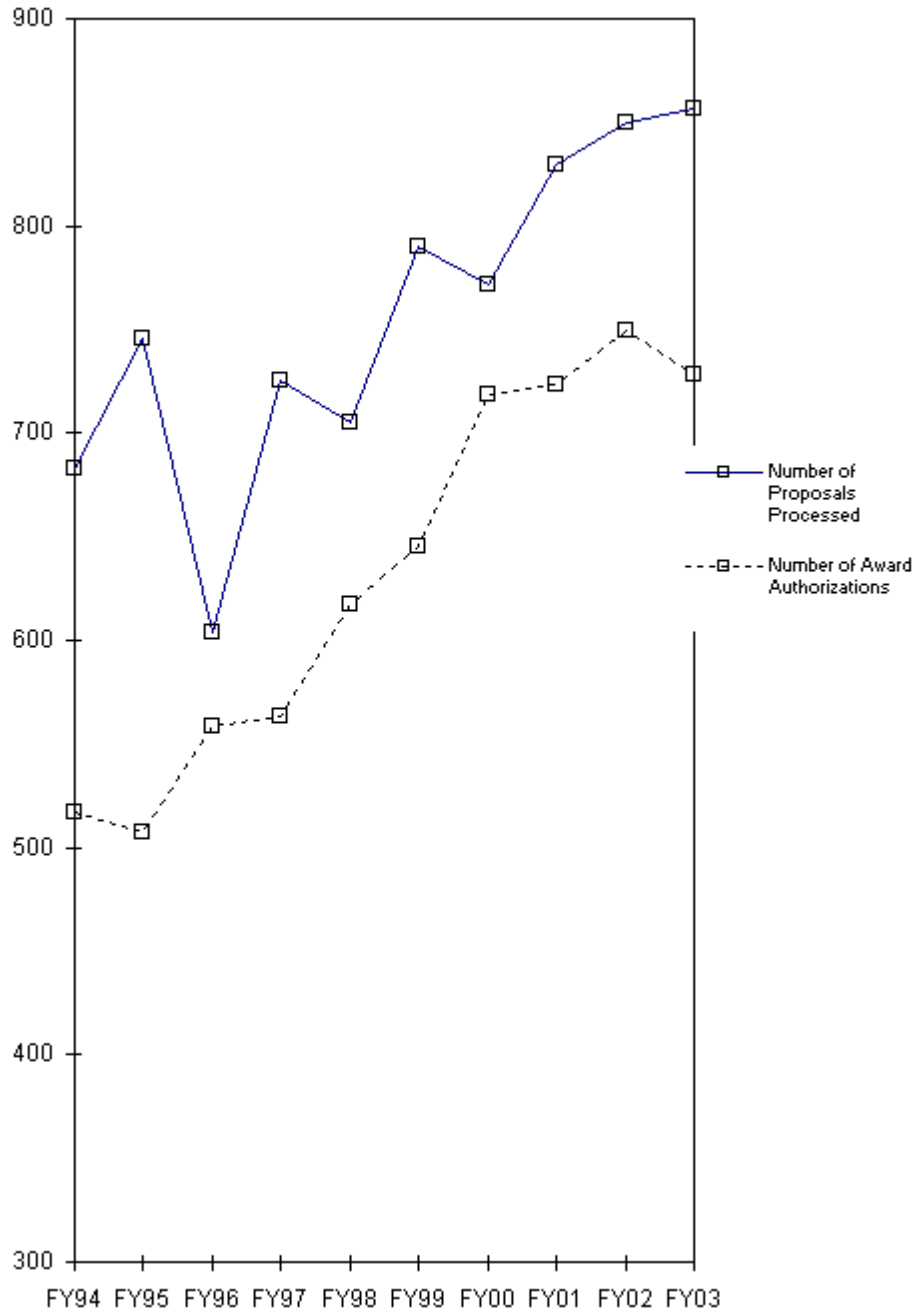


\$25,398,733 FOR FISCAL YEAR 2003

UNIVERSITY OF NEW HAMPSHIRE
AWARDS FOR RESEARCH AND OTHER SPONSORED PROGRAMS
BY SPONSOR TYPE

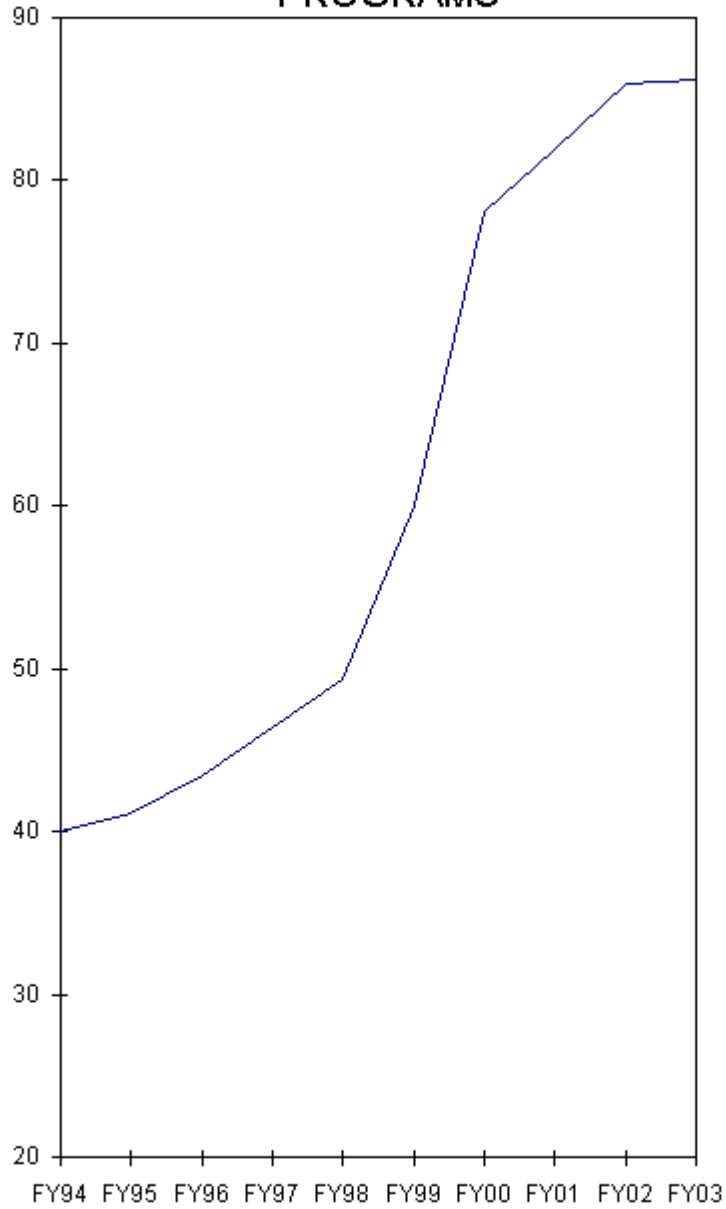
	FY03	FY02	% Increase
US FEDERAL GOVERNMENT			
Department of Commerce	\$26,832,733	\$24,942,457	7.6%
National Aeronautics & Space Administration	\$10,753,511	\$8,518,020	26.2%
Department of Health & Human Services	\$6,003,758	\$5,965,844	0.6%
Department of Justice	\$5,832,933	\$5,121,631	13.9%
National Science Foundation	\$5,823,589	\$4,797,813	21.4%
Department of Education	\$2,405,954	\$2,653,317	(9.3%)
Department of Defense	\$1,691,772	\$2,224,095	(23.9%)
Department of Agriculture	\$1,474,038	\$1,371,616	7.5%
Department of Transportation	\$1,356,000	\$1,328,449	2.1%
Environmental Protection Agency	\$1,060,205	\$2,367,492	(55.2%)
Department of the Interior	\$897,518	\$510,486	75.8%
Small Business Administration	\$600,000	\$699,992	(14.3%)
Department of Energy	\$541,506	\$590,000	(8.2%)
Agency for International Development	\$500,000	\$240,000	108.3%
Federal Emergency Management Agency	\$60,000	\$120,000	(50.0%)
National Foundation for Arts & Humanities	\$42,000	\$25,000	68.0%
Department of State	\$0	\$93,443	(100.0%)
Other (CNS,Mus/Lib))	\$0	\$7,730	(100.0%)
Total US Federal Government	\$65,875,517	\$61,577,385	7.0%
NH STATE GOVERNMENT			
Department of Health & Human Services	\$3,264,194	\$3,862,161	(15.5%)
Department of Resources & Economic Development	\$1,170,503	\$1,055,465	10.9%
Department of Education	\$818,474	\$861,027	(4.9%)
Department of Environmental Services	\$549,162	\$409,190	34.2%
Department of Justice	\$423,927	\$279,303	51.8%
Executive Department	\$366,820	\$600,514	(38.9%)
Fish & Game Department	\$129,075	\$370,653	(65.2%)
Pease Development Authority	\$121,064	\$0	#DIV/0!
Department of Agriculture	\$35,487	\$172,426	(79.4%)
Department of Adjutant General	\$13,000	\$0	#DIV/0!
Department of Highway Safety	\$6,746	\$250	2598.4%
Department of Cultural Resources	\$3,000	\$10,280	(70.8%)
Department of Transportation	\$0	\$1,001,310	(100.0%)
Total NH State Government	\$6,901,452	\$8,622,579	(20.0%)
OTHER US STATE GOVERNMENT	\$88,558	\$24,448	262.2%
US LOCAL GOVERNMENT	\$98,530	\$278,429	(64.6%)
US PRIVATE			
Non-Profit	\$3,158,983	\$3,237,668	(2.4%)
Universities & Colleges	\$4,368,889	\$3,608,687	21.1%
Business & Industry	\$5,450,482	\$8,103,328	(32.7%)
Total US Private	\$12,978,354	\$14,949,683	(13.2%)
FOREIGN & MULTINATIONAL	\$284,118	\$356,100	(20.2%)
GRAND TOTAL	\$86,226,529	\$85,808,624	0.5%

UNIVERSITY OF NEW HAMPSHIRE RESEARCH AND OTHER SPONSORED PROGRAMS



**Numbers of Proposals
and Award Authorizations**

UNIVERSITY OF NEW HAMPSHIRE RESEARCH AND OTHER SPONSORED PROGRAMS



Total Award Dollars (in Millions)

College and Department/Program Codes from Detail Award Listings

<i>E&PS</i>	<i>College of Engineering and Physical Sciences</i>	TSAS	Thompson School of Applied Science
CCOM	Center for Coastal and Ocean Mapping	ZOOL	Zoology
CE	Civil Engineering	<i>PRES</i>	<i>Office of the President</i>
CH E	Chemical Engineering	CNCPR	Council of Presidents
CHEM	Chemistry	NHPTV	New Hampshire Public Television
COMPS	Computer Science	POLIC	University Police
EARTH	Earth Sciences	<i>SHHS</i>	<i>School of Health and Human Services</i>
ECE	Electrical and Computer Engineering	COM D	Communication Disorders
ERG	Environmental Research Group	FAM&C	Family Studies
MATH	Mathematics	HM&P	Health Management and Policy
ME	Mechanical Engineering	IHPP	NH Inst for Health Policy and Practice
MS	Materials Science	KINES	Kinesiology
PHY	Physics	NURS	Nursing
<i>EOS</i>	<i>Institute for the Study of Earth, Oceans & Space</i>	RM&P	Recreation Management and Policy
CCRC	Climate Change Research Center	SWORK	Social Work
CSRC	Complex Systems Research Center	<i>UNHM</i>	<i>UNH-Manchester</i>
OPAL	Ocean Process Analysis Lab	ENGRT	Engineering Technology
SSC	Space Science Center		
<i>EXT</i>	<i>Cooperative Extension</i>	<i>VPAA</i>	<i>Vice President for Academic Affairs</i>
<i>LA</i>	<i>College of Liberal Arts</i>	DCE	Division of Continuing Education
ANTHR	Anthropology	GRADS	Graduate School
ARTS	Arts	TRIO	Trio Program
EDUC	Education	<i>VPR</i>	<i>Vice President for Research and Public Service</i>
ENG	English	IRC	Industrial Research Center
FRL	Family Research Lab	MARPR	Marine Program
FR&IT	French & Italian	OSR	Office of Sponsored Research
HIST	History	RESCO	Research Computing
IOD	Institute on Disability	VPCIC	CICEET: Coop Institute for Coastal and Estuarine Envir Tech
IPSSR	Institute for Policy and Social Science Research	VPCIN	CINEMAR: Coop Institute for New England Mariculture and Fisheries
POLSC	Political Science	VPSEA	NH Sea Grant
PSYCH	Psychology	<i>VPAA</i>	<i>Vice President for Student Affairs</i>
SOC	Sociology	ATHLE	University Athletics
<i>LS&A</i>	<i>College of Life Sciences and Agriculture</i>	SHARP	Sexual Harassment & Rape Prevention Program (SHARPP)
ANSCI	Animal and Nutritional Sciences	<i>WSBE</i>	<i>Whittemore School of Business and Economics</i>
BIOCH	Biochemistry and Molecular Biology	SBDC	Small Business Development Center
HCGS	Hubbard Center for Genome Studies		
MICRO	Microbiology		
NATRE	Natural Resources		
PLBIO	Plant Biology		
RESEC	Resource Economics & Community Development		