

Sponsored Funding Overview: New "Golden Age" of Funding?

Total sponsored awards received by the University of Pittsburgh for FY 98 exceeded \$295M. This marks a robust continuation of funding growth, representing approximately 10% growth from the prior year. Even more, the unexpected increases in major federal funding agency budgets for FY 99 and beyond augur well for continued funding success. As of this writing, NSF predicts that overall, universities and colleges will realize an 8.6% increase in basic research funding for Federal FY 99.¹ These events mark a dramatic contrast from forecasts of scarcely three years ago. The increase in tax revenues and related collections has effected a net budget surplus for Federal FY 98, with larger surpluses now predicted for FY 99 and 2000.² All of these developments suggest an opportune environment for competitive academic research projects.

Agency Outlook

For Federal FY 99, the NIH received an unheralded 14% average funding increase, that translates as a **\$2 Billion** increase over actual FY 98. This equates as approximately 2500 new research project grants and an additional 200 competitively-awarded research and development contracts. This is expected to boost overall funding success rates of proposals from the mid-20s to the low 30s.³

For the same fiscal year, the National Science Foundation (NSF) has received an average 8% increase that has been allocated in the following fashion for selected directorates:

Directorate	FY 99 Appropriation (% increase vs. 98)
Biological Sciences	\$412.8M (11.4)
Computer info. Sciences & Engineering	\$319.0M (12.4)
Engineering	\$386.0M (07.9)
Mathematical & Physical Sciences	\$764.0M (06.7)
Social, Behavioral & Econ.Sciences	\$145.0M (10.9)
Education & Humanities Resources	\$662.0M (03.8)

Other agencies have received substantial increases, as well. This includes an estimated 9.2% increase for basic research at the Department of Energy, while the Department of Defense (DOD) expects an overall increase of approximately 2.9%. DOD paylines include the Office of Naval Research and the Air Force Office of Scientific Research, both consistent sources of basic funding at the University.

Institutional Portfolio

Sponsored funding at the University of Pittsburgh continues to reflect the dominant influence of biomedical research activities. Overall, funding from the NIH equals approximately 55% of total awards. Among the various NIH Institutes, leading sponsors include the National Cancer Institute, at \$23M, the *National Heart, Lung and Blood Institute* at \$15M, and the *National Institute of Mental Health* at \$31M.

The National Science Foundation (NSF) maintains its position as the University's second largest federal sponsor, at \$13.8M. Within NSF divisions, the bulk of funding comes from the Mathematics and Physical Sciences (MPS) and Engineering Directorates. An additional source of revenue from within the NSF includes the Education and Human Resources Directorate, that funds projects in undergraduate training and curriculum improvement, as well as supporting an array of partnerships with research universities.

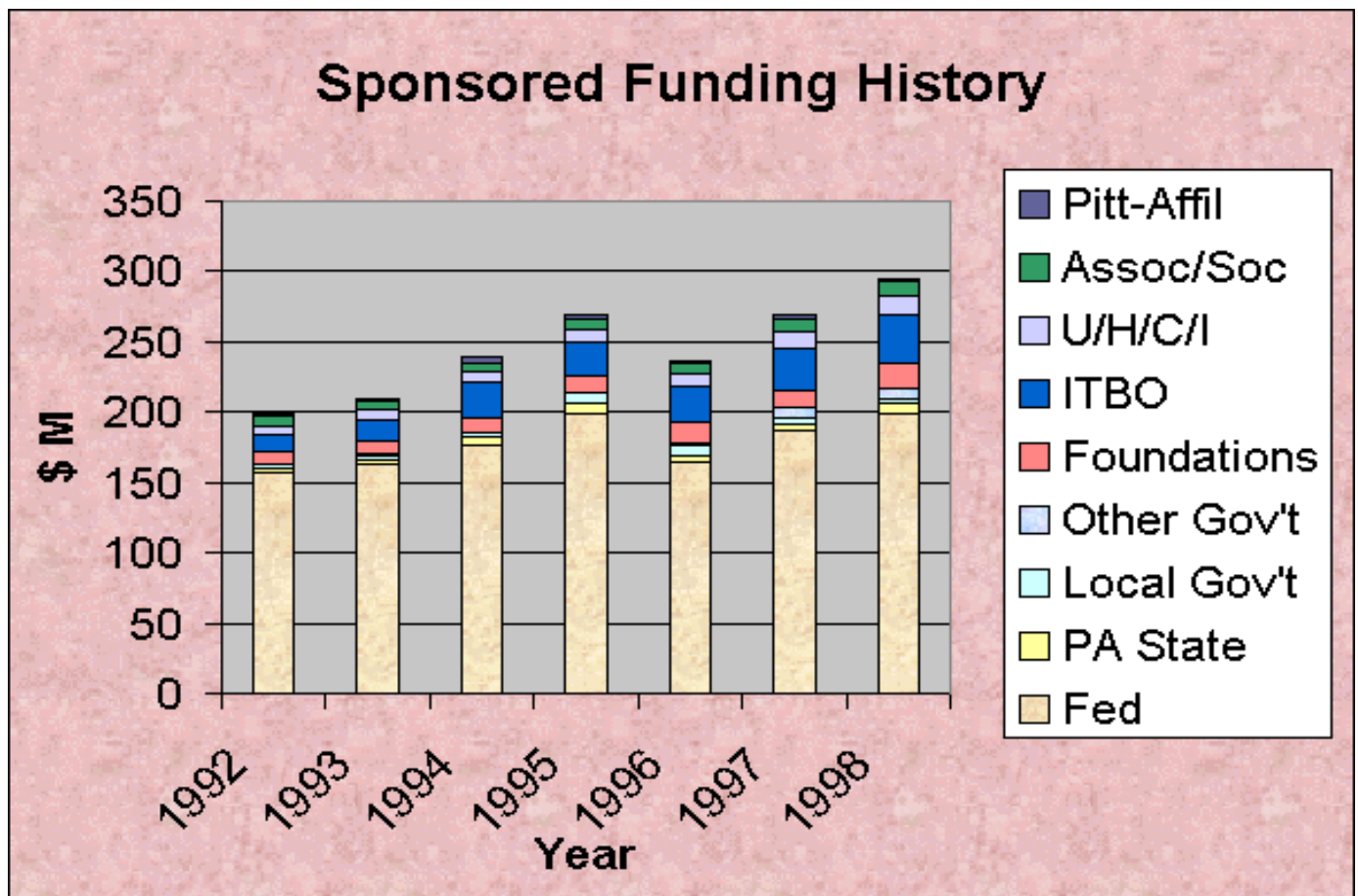
Other federal sponsors include the Department of Education (\$6.4M), the Department of Energy (\$3.1M), the National Aeronautics and Space Administration (\$2.5M), the Office of Naval Research (\$3.5M), and the Air Force Office of Scientific Research (\$1.2M).

Funding from the Commonwealth of Pennsylvania is concentrated in the Department of Health (\$2.5M) and the Department of Education (\$3.5M). Overall, annual funding support varies, but enjoyed a substantial increase from a total of \$4.8M in FY 97 to \$7.2M this year.

Funding from corporate sources continues to represent a substantial sector. For FY 98, overall funding from Industry, Trade and Business Organizations exceeded \$35M, modestly surpassing the previous year's level, and representing a 12% share of overall funding. A major portion of this funding comes from pharmaceutical and biotechnology firms that support pre-clinical research and clinical protocols in a variety of disease areas. A number of these projects involve multiple investigators from several institutions in complex multiple site programs.

Funding from Philanthropic sources totaled \$17.6M, representing an increase of approximately 50% over FY 97. A variety of organizations provide substantial support for an enormous spectrum of projects, from basic research to community

service activities. Funding is roughly grouped in terms of Pittsburgh-area foundations, national foundations, and health-related organizations.



Historical perspectives on the growth in University sponsored awards are suggested in the accompanying graph. Utilizing Fiscal Year 1992 as a baseline, overall funding has increased 48%, representing a yearly average increase in excess of 7% for each of the intervening years. This compares with an average increase for the same time period of 29.3%⁴ for a peer group of doctoral I institutions in the 10-15 rank cohort. Differential funding growth has been experienced in some sectors over others. While aggregate federal funding has increased very modestly, funding from Industry, Trade, and Business Organizations (ITBO) has nearly tripled, from its base of \$12.2M in FY 92. This clearly accounts for some of the aggregate growth in overall portfolio, such that industrial sector support has grown from 7.7% of the total to approximately 12% for FY 98. Overall, the National Science Foundation reports that U.S. industrial investment in basic research at universities and colleges increased 20% from 1991 to 1997, after discounting for inflation. Grossly, this represents approximately 6.5% of all academic basic research activity.⁵

Partnerships and Collaborations

At the University of Pittsburgh, a variety of collaborative funding relationships are utilized. Most of them are driven by project-specific contexts, where mutual benefits sustain the interest in the partnership. A mix of basic research, pre-clinical and clinical trial agreements typify this sort of relationship. "Center of Excellence" characteristics mark some other activities, that focus on sub-disciplinary areas, or devote efforts to a particular disease state. Examples include the multidisciplinary arthritis center, several centers concentrating on AIDS-related disease, and the Parkinson's Disease Center. While the classic, single-investigator model of sponsored research continues as the largest single mode of funded project, the trend toward an increasing proportion of multidisciplinary and multi-investigator funded projects will in all likelihood continue.

Challenges on the Horizon

The impressive growth in both absolute portfolio size and actual purchasing value of awards discounted for inflation occurs in the context of continuing administrative and fiscal changes, especially among the federal funding agencies. Federal Grants management changes continue to shift the burden of administrative management and accountability from the sponsoring agencies to the universities as recipient institutions. For example, Just-in-time (JIT) and modular grant procedures, while lightening the "front-end" of proposal detail, require various follow-up procedures by university grants staff and unit administrators to assure that subsequent documentation is in order. Relief in paperwork detail at the front end, moreover, contrasts with increasing fiscal accountability at post-award, closeout, and audit phases. Additionally, mandated cost sharing on specific grant programs entails systems and processes to confirm sources of funding commitments, and show evidence of appropriate fiscal documentation. Regulatory changes, including pending revisions to OMB Circular A-110 require further scrutiny by administrative staff at all levels.

Summary

The overall growth in funding experienced in FY 98 provides encouragement for the sustainability of the sponsored research enterprise at the University. Concerted efforts need to be continued to afford faculty adequate support for research, as well as provide timely information concerning funding developments and sponsor changes. Also, differentials in funding availability across disciplines will continue to demand equitable approaches to the allocation of internal resources. With diligent attention to the facilitation of scholarship, faculty will be better positioned in the competitive national arena, and may look forward to continuing success in securing funding.

References

1 *National Science Foundation (1998). "Federal Funding Supports Moderate Growth for Basic Research in the 1990s, Washington, DC. Available on-line at:*
<http://www.nsf.gov/sbe/srs/databrf/db99319.htm>

2 *American Association Advancement of Science (1999). AAAS Preliminary analysis of R & D in the FY 2000 Budget. Washington, DC. For FY 2000 Budget for R&D, check*
<http://www.aaas.org/spp/dspp/rd/fy00.htm>

3 *Fast Facts: Where the New Money is Going (1998). Mary Woodward Lasker Charitable Trust, available on-line at* <http://www.laskerfoundation.org/news/gnih.html#numbers>

4 *Self-reported sponsored award figures, FY 92 vs. FY 97: UCLA, UCSD, Columbia, and UNC-Chapel Hill.*

5 *National Science Board (1998). "Industry Trends in Research Support and Links to Public Research," in Science and Engineering Indicators 1998. Washington, DC. Available on-line at:*
<http://www.nsf.gov/cgi-bin/getpub?nsb9899>

University of Pittsburgh - Sponsored Awards FY 1998



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Definitions of Sponsor Types

Federal Government

Official federal government agencies as well as quasi-official agencies such as Legal Services Corporation and the United States Institute of Peace. Primary reference sources are *The United States Government Manual* and *Federal Yellow Book*.

Pennsylvania State Government

Official and quasi-official Commonwealth of Pennsylvania agencies. Primary reference sources are *The Pennsylvania Manual* and *Pennsylvania Bulletin*.

Local Government

Official and quasi-official agencies of governmental bodies within the Consolidated Metropolitan Statistical Area (CMSA). The components of the Pittsburgh-Beaver Valley CMSA are Allegheny County, Fayette County, Washington County, Westmoreland County, and Beaver County. Agencies included are City and County agencies as well as school districts and quasi-official bodies such as the Allegheny Intermediate Unit within the Pittsburgh-Beaver Valley CMSA.

Other Government

All governmental agencies not categorized as Federal Government, Pennsylvania State Government, or Local Government. This includes international governmental agencies, governmental agencies of foreign countries as well as agencies of states other than Pennsylvania, and of cities and counties outside the Pittsburgh CMSA.

Philanthropic Foundations

Any nongovernmental, nonprofit organization, which was established to maintain or aid educational, social, charitable, or other activities serving the common welfare, primarily by making grants to other nonprofit organizations. Types of foundations include independent foundations, community foundations, and operating foundations. Primary reference sources are *Guide to U.S. Foundations, Their Trustees, Officers, and Donors* and *Directory of Pennsylvania Foundations*.

Industry, Trade, and Business Organizations

Includes corporations and company-sponsored foundations as well as trade and business organizations. Primary reference sources are Section 1 of the *Encyclopedia of Associations* entitled "Trade, Business, and Commercial Organizations" as well as *Corporate 500* and *National Directory of Corporate Giving*.

Universities/Hospitals/Centers/Institutes

Includes all institutions of higher education and hospitals unless Pitt-affiliated, also incorporating centers and institutes without affiliations to organizations which would be classified as other types. For example, a research center of a corporation will be classified as Industry, Trade, and Business Organization, and not under this definition. All Pitt-affiliated entities are classified separately.

Associations and Societies

Any professional group or organization of persons having common interests or purposes, and for whom grant making is a secondary function. Voluntary health organizations are classified here. Industry, trade, and business associations or societies are classified under Industry, Trade, and Business Organizations. The primary reference source is the *Encyclopedia of Associations*.

Pitt-Affiliated Units

Denotes entities formally affiliated with the University of Pittsburgh.

Sponsor Tables for Pitt Awards

**UNIVERSITY OF PITTSBURGH
SPONSOR SUMMARY
7/1/97 - 6/30/98**

<u>TYPE</u>	<u>AMOUNT</u>	<u>AWARD</u>
Federal Government	\$198,754,304	840
PA State Government	\$7,239,846	47
Local Government	\$3,164,541	35
Other Government	\$7,459,808	34
Philanthropic Foundations	\$17,576,962	138
Industry, Trade & Business Organizations	\$35,344,986	436
Universities/Hospitals/Centers/Institutes	\$12,917,713	169
Associations & Societies	\$10,363,828	179
Pitt-Affiliated Units	<u>\$2,281,428</u>	<u>39</u>
TOTAL	\$295,103,416	1,917

Awards by Sponsor Type - Detail

University of Pittsburgh Awards by Sponsor Type - Detail 7/1/97 - 6/30/98

FEDERAL GOVERNMENT	AMOUNT	AWARDS
Administration for Children and Families:		
Administration on Children, Youth and Families	\$1,705,576	2
Advanced Research Projects Agency	\$654,846	2
Agency for Health Care Policy and Research	\$3,080,799	7
Appalachian Regional Commission	\$45,000	1
Argonne National Laboratory	\$100,278	1
Centers for Disease Control and Prevention:		
National Center for Chronic Disease Prevention and Health Promotion	\$12,615	1
National Center for HIV, STD, and TB Prevention	\$298,247	1
National Center for Injury Prevention and Control	\$660,307	2
National Institute for Occupational Safety and Health	\$839,860	5
Corporation for National Service	\$140,000	1
Department of Agriculture:		
Forest Service	\$49,266	2
Department of Education	\$6,440,207	28
Department of Energy	\$3,079,371	10
Department of Housing and Urban Development	\$77,400	1
Department of Justice	\$200,000	1
Department of the Air Force:		
Air Force Materiel Command	\$55,131	1
Air Force Office of Scientific Research	\$1,245,084	7
Department of the Army:		
Army Research Laboratory	\$5,000	1
Army Research Office	\$718,725	6
Maryland Procurement Office	\$75,000	1
U.S. Army Medical Research and Development Command	\$2,720,575	7
Department of the Navy:		
Office of Naval Research	\$3,503,467	15
Department of Transportation:		
National Highway Traffic Safety Administration	\$173,210	1
Department of Veterans Affairs:		
VA Medical Center, Pittsburgh, PA	\$176,404	2
Environmental Protection Agency	\$135,931	2
Food and Drug Administration	\$199,999	2
Health Resources and Services Administration:		
Bureau of Health Professions	\$2,081,056	18
Bureau of Maternal and Child Health	\$651,543	4
HIV/AIDS Bureau	\$527,071	1
Inter-American Foundation	\$26,250	1
Jet Propulsion Laboratory	\$94,237	3
National Aeronautics and Space Administration	\$2,544,237	21
National Institute of Standards and Technology	\$451,589	2
National Institutes of Health:		
Fogarty International Center	\$40,965	2
National Cancer Institute	\$22,567,664	71

National Center for Research Resources	\$2,485,227	5
National Eye Institute	\$3,239,105	13
National Heart, Lung, and Blood Institute	\$15,570,181	58
National Human Genome Research Institute	\$202,656	1
National Institute of Allergy and Infectious Diseases	\$9,740,591	36
National Institute of Arthritis and Musculoskeletal and Skin Diseases	\$3,675,973	12
National Institute of Child Health and Human Development	\$4,262,160	19
National Institute of Dental Research	\$2,443,964	9
National Institute of Diabetes and Digestive and Kidney Diseases	\$8,750,580	41
National Institute of Environmental Health Sciences	\$1,213,559	7
National Institute of General Medical Sciences	\$6,690,437	32
National Institute of Mental Health	\$30,717,645	97
National Institute of Neurological Disorders and Stroke	\$13,507,871	45
National Institute of Nursing Research	\$2,569,995	14
National Institute on Aging	\$7,126,331	21
National Institute on Alcohol Abuse and Alcoholism	\$4,817,679	18
National Institute on Deafness and Other Communication Disorders	\$1,296,106	8
National Institute on Drug Abuse	\$7,707,611	29
National Library of Medicine	\$1,271,367	5
National Renewable Energy Laboratory	\$139,943	1
National Science Foundation	\$13,757,222	131
Peace Corps	\$13,600	1
Substance Abuse and Mental Health Services Administration	\$2,177,591	4
TOTALS	\$198,754,304	840

PA STATE GOVERNMENT

	AMOUNT	AWARDS
Pennsylvania Commission on Crime and Delinquency	\$89,638	1
Pennsylvania Council on the Arts	\$21,233	4
Pennsylvania Department of Aging	\$200,000	1
Pennsylvania Department of Community Affairs	\$100,000	1
Pennsylvania Department of Education	\$3,522,647	15
Pennsylvania Department of Environmental Protection	\$8,950	1
Pennsylvania Department of Health	\$2,528,953	17
Pennsylvania Department of Public Welfare	\$50,000	1
Pennsylvania Department of Transportation	\$86,400	1
Pennsylvania Historical and Museum Commission	\$7,741	2
Pennsylvania Interest on Lawyers Trust Account Board	\$107,150	1
Pennsylvania Office of Administration	\$517,134	2
TOTALS	\$7,239,846	47

LOCAL GOVERNMENT

	AMOUNT	AWARDS
Aliquippa Alliance for Unity and Development	\$7,000	1
Allegheny County	\$2,499,296	12
Allegheny Intermediate Unit	\$800	1
Allegheny Valley School District	\$33,253	1
Duquesne School District	\$30,897	1
Fox Chapel Area School District	\$9,968	1
Highlands School District	\$37,299	1
Keystone Oaks School District	\$38,675	1
Monaca School District	\$1,500	1
Pittsburgh (City of)	\$142,681	5
Pittsburgh Board of Public Education	\$146,456	5

Port Authority of Allegheny County	\$3,935	1
Shaler Area School District	\$11,200	1
Sto-Rox School District	\$89,081	2
Woodland Hills School District	\$112,500	1
TOTALS	\$3,164,541	35

OTHER GOVERNMENT	AMOUNT	AWARDS
Boston Plan for Excellence	\$110,000	1
Cassville Borough Water and Sewage Authority	\$5,531	1
Coalition of Northeastern Governors	\$7,457	1
Cumberland County	\$6,349,895	1
Embassy of the Arab Republic of Egypt	\$60,078	10
Flint Community Schools	\$11,360	3
Germany, Federal Republic of, Ministry of Defense	\$121,152	1
Illinois State Board of Education	\$66,000	1
Kansas City Missouri School District	\$70,000	1
Mackinac Bridge Authority	\$3,300	1
Maryland (State)	\$271,195	1
Medical Research Council of Canada	\$43,566	3
New York City School District Board of Education	\$66,000	2
North Atlantic Treaty Organization	\$6,320	1
Philadelphia School District Board of Education	\$69,000	1
Research Institute on Addictions	\$53,147	1
Rocky River School District	\$2,952	1
San Diego Unified School District	\$130,000	1
Shaker Heights Board of Education	\$7,371	1
South Alabama Regional Planning Commission	\$5,484	1
TOTALS	\$7,459,808	34

PHILANTHROPIC FOUNDATIONS	AMOUNT	AWARDS
Beckman (Arnold and Mabel) Foundation	\$70,400	1
Buhl Foundation	\$70,100	2
Cancer Treatment Research Foundation	\$158,872	2
Carnegie Corporation of New York	\$650,000	2
Chiang Ching-Kuo Foundation for International Scholarly Exchange	\$225,000	2
Danforth Foundation	\$42,989	1
Eden Hall Foundation	\$500,000	1
EJLB Foundation	\$215,595	1
Extra Mile Education Foundation	\$15,070	1
Falk (Maurice) Medical Fund	\$249,220	4
Ferguson (Albert B.), Jr., M.D. Orthopaedic Research Foundation	\$65,000	13
Geyer (Charlotte) Foundation	\$31,532	1
Grable Foundation	\$105,000	4
Hawaii Heptachlor Research and Education Foundation	\$31,387	1
Heinz (Howard) Endowment	\$1,767,522	13
Heinz (Vira I.) Endowment	\$200,000	1
Heinz Family Foundation	\$8,000	1
Heiser Program for Research in Leprosy and Tuberculosis	\$32,500	1
Hillman Foundation	\$75,000	1
Hunt (Roy A.) Foundation	\$129,250	1
Japan Foundation	\$39,840	1
Jennings (Mary Hillman) Foundation	\$80,000	1
Johnson (Robert Wood) Foundation	\$442,876	4
Kauffman (Ewing Marion) Foundation	\$200,000	1

Keck (W.M.) Foundation	\$750,000	1
Lambda Foundation	\$1,500	1
Lemelson Foundation	\$10,800	1
Luce (Henry) Foundation	\$25,000	1
MacArthur (John D. and Catherine T.) Foundation	\$1,380,000	1
McCune Foundation	*	*
McDonnell (James S.) Foundation	\$801,889	6
Mellon (Andrew W.) Foundation	\$333,334	1
Mellon (Richard King) Foundation	\$495,000	3
Merck (John) Fund	\$60,000	1
Mott (Charles Stewart) Foundation	\$200,000	1
National Writing Project Corporation	\$14,000	1
Open Society Institute	\$76,345	1
Oral and Maxillofacial Surgery Foundation	\$12,500	1
Pacific Cultural Foundation	\$10,000	1
Packard (David and Lucile) Foundation	\$100,000	1
Pew Charitable Trusts	\$4,000	1
Philadelphia Education Fund	\$120,000	1
Pitcairn-Crabbe Foundation	\$25,000	1
Pittsburgh Foundation	\$933,798	17
Pittsburgh Leadership Foundation	\$29,279	1
PNC Bank Charitable Trust Committee	\$12,000	1
Price Foundation	\$480,000	1
Pritzker Cousins Foundation	\$94,602	1
Puerto Rican Association for Human Development	\$3,535	1
Research Corporation	\$35,000	1
Sage (Russell) Foundation	\$28,493	1
Scaife Family Foundation	\$400,000	1
Spencer Foundation	\$247,900	2
Stanley (Theodore and Vada) Foundation	\$1,396,000	5
Staunton Farm Foundation	\$32,000	1
Strauss (Lauri) Leukemia Foundation	\$25,000	1
Three Mile Island Public Health Fund	\$31,888	1
Tinker Foundation	\$15,000	1
Wendy Will Case Cancer Fund	\$25,000	1
Whitaker Foundation	\$2,117,946	10
Whitehall Foundation	\$120,000	1
Young Green Foundation	\$35,000	1
TOTALS	\$17,576,962	138

*Sponsor precludes disclosure of details

INDUSTRY, TRADE & BUSINESS ORGANIZATIONS

	AMOUNT	AWARDS
3M Company	\$27,386	1
Abbott Laboratories	\$98,927	2
Academic Press	\$8,750	1
Adtranz	\$54,631	2
Advanced Cardiovascular Systems	\$70,000	1
Advanced Magnetics	\$43,872	1
Afferon Corporation	\$82,980	1
Agouron Pharmaceuticals	\$64,000	1
Air Products and Chemicals	\$60,420	1
Akzo Nobel	\$10,302	1
Allergan	\$75,450	1
Alpha-Beta Technology	\$73,400	1
Aluminum Company of America	\$25,794	1
AM Medica Communications, Ltd.	\$16,000	1
American Cyanamid Company	\$187,500	1

American Grid	\$4,000	1
American Institutes of Research	\$104,845	1
Amgen	\$623,610	6
Amylin Pharmaceuticals	\$8,188	1
Angiosonics	\$22,500	1
Argonex	\$137,952	1
Aronex Pharmaceuticals	\$219,500	2
ARTSCO	\$160,935	4
Aspen Systems	\$40,997	1
ASSET	\$96,565	1
Asta Medica	\$491,100	2
Astra USA	\$638,713	2
Atrix Lab	\$36,619	1
BASF Aktiengesellschaft	\$20,000	1
Baxter Healthcare Corporation	\$176,109	3
Bayer	\$845,626	10
BBN Systems and Technologies Corporation	\$91,774	2
Beckman Coulter	\$30,000	1
BellaVista	\$12,814	1
Ben Franklin Technology Center of Central and Northern Pennsylvania	\$67,955	1
Ben Franklin Technology Center of Western Pennsylvania	\$891,110	19
Bend Research	\$162,897	1
Beneficial Designs	\$5,293	1
Berlex Laboratories	\$198,975	2
Biogen	\$27,000	1
Biosense	\$257,640	1
Boehringer Ingelheim Pharmaceuticals	\$48,492	1
Boeing Company	\$1,500	1
Bracco Diagnostics	\$190,382	2
Braun (B.) Medical	\$87,130	1
Bristol-Myers Squibb Company	\$867,650	6
British Biotech	\$106,000	2
Burroughs Wellcome Company	\$18,000	1
Cambridge Heart	\$12,500	1
Cambridge Research and Instrumentation	\$18,000	1
Cardiac Pacemakers	\$2,776	1
Cerebrus	\$80,690	1
CertainTeed Corporation	\$24,033	1
Chiron Corporation	\$5,000	1
Clairol	\$48,000	1
Clinical Cardiovascular Research	\$333,880	2
ClinTrials	\$348,660	3
Collagenesis	\$10,000	2
CollaGenex Pharmaceuticals	\$149,988	1
CombiChem	\$134,000	1
Compact Membrane Systems	\$154,472	1
CompServices	\$190,938	1
Computational Diagnostics	\$54,872	1
Computerm	\$43,697	1
Cook	\$39,515	1
Coordinating Research Council	\$86,000	1
Cordis Corporation	\$25,000	1
Cordis Webster	\$158,550	2
Corixa Corporation	\$151,372	1
Corvita Corporation	\$124,207	1
Coulter Corporation	\$30,009	1
Covance	\$801,665	3
Cree Research	\$55,000	2
CTI PET Systems	\$23,876	1
Cyke	\$11,691	1
Demegen	\$215,000	1

Diachemix Corporation	\$60,000	1
Dialysis Clinic	\$66,720	2
Dow Chemical Company	\$70,000	1
Du Pont (E. I.) de Nemours and Company	\$10,000	1
Electric Power Research Institute	\$84,506	1
Elekta Instruments	\$12,371	1
Elf Aquitaine	\$27,638	1
Elsevier Science	\$24,745	1
Eltron Research	\$34,650	1
Endo Vascular Technologies	\$322,214	1
Energy International Corporation	\$175,000	1
Engineering Associates	\$14,122	1
Enterprise Gas Company	\$10,466	1
EP MedSystems	\$26,250	1
Erlbaum (Lawrence) Associates	\$8,000	1
Estee Lauder	\$10,000	1
Express Med	\$32,295	1
Exxon Corporation	\$25,046	1
Fore Systems	\$80,632	2
Forest Laboratories	\$859,011	8
Fox Farsight Productions	\$30,000	1
Fujisawa	\$200,000	1
Genelabs Technologies	\$13,295	1
Genencor International	\$20,000	1
Genentech	\$79,800	1
General Electric Company	\$57,000	2
General Electric Foundtion	\$20,000	1
General Nutrition Companies	\$30,000	1
GenVec	\$683,829	4
Genzyme Corporation	\$225,000	1
Geo-Centers	\$65,151	1
Giant Eagle Foundation	\$10,000	1
Glaxo Wellcome	\$407,357	11
Gore (W.L.) & Associates	\$40,000	1
GPD Associates	\$7,427	4
Guidant Corporation	\$7,000	1
Guild Associates	\$35,131	1
Health Research	\$178,886	2
Heinz (H. J.) Company Foundation	\$225,000	2
Heinz U.S.A.	\$50,703	1
Highmark Blue Cross Blue Shield	\$70,660	1
Hoechst Marion Roussel	\$48,660	1
Hoffmann-La Roche	\$869,842	1
Honda Motor	\$44,760	1
ICON Clinical Research	\$296,400	1
ICOS Corporation	\$234,760	1
ILEX Oncology	\$78,304	1
ImaRx Pharmaceutical Corporation	\$85,200	1
Immunex Corporation	\$601,773	6
INCSTAR Corporation	\$35,066	1
Integrated Therapeutics Group	\$45,000	1
Intel Corporation	\$77,142	2
Intelligent Hearing Systems	\$64,966	1
Intermedics	\$50,000	1
International Glutamate Technical Committee	\$72,759	1
Interneuron Pharmaceuticals	\$20,788	2
ISIS Pharmaceuticals	\$10,000	1
Istituto Farmacoterapico Italiano	\$283,218	3
Janssen Pharmaceutica	\$278,976	7
Janssen Research Foundation	\$6,858	1
Japan Health Science Foundation	\$30,000	1
Jenner Biotherapies	\$50,000	1

Kanebo	\$106,667	1
Kendle	\$155,500	1
KLH Engineers	\$9,842	1
Knoll Pharmaceuticals	\$88,200	1
Laboratoires UPSA	\$172,315	1
Laerdal Foundation for Acute Medicine	\$41,000	5
Layton Bioscience	\$489,169	1
Lifecor	\$21,000	1
Lilly (Eli) and Company	\$1,921,018	17
Liposome Company	\$90,937	1
Liz Claiborne	\$65,826	1
Mallinckrodt Medical	\$81,000	2
Marion Merrell Dow	\$52,684	1
Mathematica Policy Research	\$15,370	2
Matrix Pharmaceutical	\$202,070	1
Maxim Pharmaceuticals	\$348,188	1
Medex Clinical Trial Services	\$33,750	1
Medinox	\$50,400	1
Medisearch International	\$42,345	1
Medtronic	\$175,188	6
Megabios Corp.	\$528,739	4
Mellon Bank	\$3,000	1
Merck & Company	\$1,307,743	16
Metamorphic Surgical Devices	\$94,754	1
Microelectronics and Computer Technology Corpoation	\$8,000	1
Mitsubishi Bank Foundation	\$8,000	1
Nimbus	\$579,249	2
North Penn Comprehensive Health Service	\$5,000	1
Northrop Grumman	\$40,422	2
Novartis	\$547,464	6
NPF Rehabilitation	\$166,600	3
Nycomed	\$331,138	2
Ohmeda	\$86,437	1
Ortho Pharmaceutical	\$50,000	1
Osteometer Meditech	\$14,400	1
Otsuka America Pharmaceutical	\$54,265	2
OxyChem	\$48,348	1
Pacesetter	\$25,000	1
Parexel International Corporation	\$256,726	4
Parke-Davis	\$272,041	3
Parsons Brinckerhoff Ohio	\$29,746	1
Pennsylvania Electric Company	\$23,909	1
Pfizer	\$292,723	9
Pharmaceutical Research Associates	\$71,400	1
Pharmacia & Upjohn	\$370,725	7
Philip Morris	\$24,052	1
Phoenix International Life Sciences	\$34,180	1
Pozen	\$58,300	1
PPD Pharmaco	\$80,900	2
PPG Industries	\$140,000	1
Purdue Pharma	\$168,524	2
QLT PhotoTherapeutics	\$22,500	1
Quintiles	\$503,609	6
RGene Therapeutics	\$250,000	1
Rhone-Poulenc Rorer	\$122,576	2
Roche Diagnostic Systems	\$46,241	1
Sangstat Medical Corporation	\$36,000	1
Sanofi	\$245,000	2
Santen	\$22,925	1
Schering Plough	\$733,001	3
Schering Plough Research Institute	\$221,395	5
SCIMED Life Systems	\$20,000	1

SCIREX Corporation	\$27,500	1
Searle (G. D.) & Compan	\$84,000	1
SmithKline Beecha	\$660,803	8
Smokeless Tobacco Research Council	\$202,658	2
Social and Scientific Systems	\$39,594	1
Solvay Pharmaceuticals	\$6,000	1
Somnus Medical Technologies	\$45,000	1
St. Jude Medical	\$1,250,894	1
Steri-Oss	\$20,000	1
Taiho Pharmaceutical	\$10,524	1
TAP Holdings	\$31,820	1
TAPPI Foundation	\$34,250	1
Thoratec Laboratories	\$43,284	2
Touch Scientific	\$3,600	1
United States Surgical Corporation	\$1,168,624	1
Universal Telecommunication Network	\$8,305	1
URS Consultants	\$16,627	1
Vascor	\$4,950	1
Vasomedical	\$93,500	1
Visible Genetics	\$50,065	1
Westat	\$120,000	1
Westinghouse Electric Corporation	\$136,000	5
Westvaco	\$24,500	1
Wiley (John) and Sons	\$7,500	1
Wyeth-Ayerst	\$152,914	3
Zeneca	\$275,000	1
Zimmer	\$52,922	1
Zoll Medical Corporation	\$47,600	2

TOTALS	\$35,344,986	436
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UNIVERSITIES/HOSPITALS/CENTERS/INSTITUTES	AMOUNT	AWARDS
Allegheny University of the Health Sciences	\$607,426	7
AMC Cancer Research Center	\$40,083	1
American Institute for Cancer Research	\$165,000	1
Beckman Research Institute	\$35,256	1
Beth Israel Deaconess Medical Center	\$168,808	1
Boston University	\$53,268	1
Brigham and Women's Hospital	\$64,500	1
Buffalo General Health System	\$2,050	1
California Pacific Medical Center Research Institute	\$10,000	1
Cancer Research Institute	\$50,000	1
Carnegie Mellon University	\$971,859	10
Carnegie Museums of Pittsburgh	\$18,775	1
Case Western Reserve University	\$414,074	6
Clemson University	\$161,837	1
Cleveland Clinic Foundation	\$79,016	2
Dartmouth College	\$83,935	1
Emory University	\$4,000	1
Frontier Science and Technology Research Foundation	\$74,203	2
George Mason University	\$248,000	1
George Washington University	\$65,900	4
Harvard University	\$77,303	2
Henry Ford Health System	\$3,988	1
Hospital for Joint Diseases/Orthopaedic Institute	\$58,646	1
Hughes (Howard) Medical Institute	\$108,000	4
Human Services Research Institute	\$6,000	1
Hutchinson (Fred) Cancer Research Center	\$54,662	1

Indiana University of Pennsylvania	\$47,034	1
Information Renaissance	\$31,632	1
Johns Hopkins Center for Alternatives to Animal Testing	\$18,000	1
Johns Hopkins Hospital	\$209,031	2
Johns Hopkins University	\$327,061	4
Loyola University of Chicago	\$43,979	1
Maryland Medical Research Institute	\$151,166	1
Massachusetts Institute of Technology	\$60,756	1
Max-Planck-Institut Fuer Biochemie	\$7,000	1
Mayo Foundation	\$12,191	1
McKeesport Hospital	\$65,207	1
Medical University of South Carolina Foundation for Research Development	\$117,120	1
Montreal General Hospital	\$3,700	1
National Marrow Donor Program	\$17,835	1
National Taiwan University	\$163,182	2
Northwestern University	\$74,811	4
Ohio State University	\$70,000	1
Penn State University	\$1,167,002	10
Pennsylvania Partnerships for Children	\$13,300	1
Pittsburgh Mediation Center	\$10,000	1
POSCO Research Institute, Korea	\$43,169	1
Pressley Ridge Schools	\$40,000	1
Primary Care Health Services	\$6,000	1
Rush-Presbyterian-St. Luke's Medical Center	\$240,413	2
Space Telescope Science Institute	\$120,464	8
St. Francis Health System	\$10,979	1
Stanford University	\$92,511	2
State University of New York at Buffalo	\$319,249	1
Temple University	\$70,990	2
Tulane University	\$1,260,254	2
University of Alabama	\$72,423	1
University of California, Berkeley	\$294,093	2
University of California, Davis	\$136,119	2
University of California, Los Angeles	\$404,572	2
University of California, San Diego	\$27,000	1
University of Chicago	\$25,000	1
University of Cincinnati	\$16,937	1
University of Georgia	\$72,400	1
University of Illinois	\$53,571	1
University of Illinois at Chicago	\$172,418	2
University of Iowa	\$52,043	1
University of Kentucky	\$326,146	3
University of Maryland	\$237,573	3
University of Medicine and Dentistry of New Jersey	\$26,900	1
University of Michigan	\$163,810	2
University of Minnesota	\$138,829	4
University of Missouri, Kansas City	\$127,870	1
University of Nebraska	\$96,853	1
University of Nevada, Reno	\$40,000	1
University of New Orleans	\$38,418	1
University of Pennsylvania	\$747,140	7
University of Rochester	\$144,000	1
University of Tennessee	\$19,171	1
University of Texas at Austin	\$92,089	1
University of Texas at El Paso	\$28,418	1
University of Texas at Houston	\$159,080	1
University of Texas Medical Branch at Galveston	\$67,158	1
University of Utah	\$19,157	1
University of Washington	\$69,253	1
University of Wisconsin	\$302,741	3
Wake Forest University	\$18,990	1

Washington University	\$59,237	2
Yale University	\$81,746	2
Yeshiva University	\$145,933	1
TOTALS	\$12,917,713	169

ASSOCIATIONS & SOCIETIES

AMOUNT AWARDS

Academy of American Poets	\$2,000	1
Allegheny Conference on Community Development	\$25,000	1
Alzheimer's Association	\$35,753	1
American Academy of Neurology Education and Research Foundation	\$50,000	1
American Association for Dental Research	\$6,000	2
American Association of Critical-Care Nurses	\$6,000	1
American Association of Nurse Anesthetists Foundation	\$3,000	1
American Cancer Society	\$1,972,000	12
American Chemical Society	\$155,000	5
American College of Physicians	\$12,500	1
American College of Radiology	\$71,000	1
American College of Surgeons	\$20,000	1
American Diabetes Association	\$278,041	3
American Federation for Aging Research	\$5,000	1
American Heart Association	\$433,552	6
American Heart Association, Pennsylvania Affiliate	\$717,633	17
American Liver Foundation	\$90,000	1
American Lung Association	\$298,960	8
American Nurses Foundation	\$3,500	1
American Paralysis Association	\$49,953	1
American Physiological Society	\$18,260	1
American Society for Aesthetic Plastic Surgery	\$1,755	1
American Society for Head and Neck Surgery	\$10,000	1
American Society of Maxillofacial Surgeons	\$6,000	1
American Society of Transplant Surgeons	\$50,000	1
American Thyroid Association	\$50,000	1
Arthritis Foundation	\$82,000	5
Arthroscopy Association of North America	\$20,000	1
Asbury Place	\$13,000	1
Association for Computing Machinery	\$26,412	1
Association for Gerontology in Higher Education	\$112,256	1
Association of Schools of Public Health	\$100,000	1
Association of Teachers of Preventive Medicine	\$191,047	2
Association of Women's Health, Obstetric and Neonatal Nurses	\$750	1
CaP CURE	\$100,000	1
Cedars-Sinai Medical Center	\$30,001	1
Cognitive Science Society	\$1,660	1
College Fund/UNCF	\$55,000	1
Crohn's and Colitis Foundation	\$92,000	1
Cystic Fibrosis Foundation	\$1,044,756	8
Diocese of Pittsburgh	\$7,000	1
Emergency Medicine Foundation	\$39,386	5
Endocrine Fellows Foundation	\$5,000	1
Family Health Council	\$771,833	2
Foundation for Anesthesia Education and Research	\$35,000	1
Foundation for Physical Therapy	\$199,320	1
G.O.A.L. Foundation	\$10,000	1
Human Frontiers Science Program Organization	\$73,160	2
Interstitial Cystitis Association	\$10,000	1
Jewish Healthcare Foundation	\$234,200	5
Juvenile Diabetes Foundation International	\$169,214	3
Komen (Susan G.) Breast Cancer Foundation	\$35,000	1

Leukemia Society of America	\$100,440	1
Lupus Foundation of America	\$60,000	1
March of Dimes Birth Defects Foundation	\$103,240	3
Mon Valley Education Consortium	\$21,566	1
Muscular Dystrophy Association	\$99,149	2
National Academy of Education	\$23,914	1
National Alliance for Research on Schizophrenia and Depression	\$636,192	8
National Center on Education and the Economy	\$25,170	1
National Collegiate Athletic Association	\$50,500	1
National Consortium on Violence Research	\$17,041	1
National Council for Soviet and East European Research	\$40,000	1
National Council of Teachers of Mathematics	\$182,548	1
National Kidney Foundation of Western Pennsylvania	\$20,000	1
National Multiple Sclerosis Society, Allegheny District Chapter	\$25,000	1
National Neurotrauma Society	\$7,798	1
National Osteoporosis Foundation	\$2,400	1
National Parkinson Foundation, Greater Pittsburgh Chapter	\$40,000	1
National Physical Science Consortium	\$12,500	1
National Research Council	\$391,758	2
National Senior Citizens Education and Research Center	\$4,000	1
NSABP Foundation	\$17,050	2
Oak Ridge Associated Universities	\$5,000	1
Oncology Nursing Foundation	\$2,500	1
Orthopaedic Research and Education Foundation	\$90,000	1
Parent Project for Muscular Dystrophy Research	\$50,000	1
Pennsylvania Forum for Primary Health Care	\$7,500	1
Pennsylvania Lions Hearing Research Foundation	\$38,056	2
Pittsburgh AIDS Task Force	\$500	1
Plastic Surgery Educational Foundation	\$8,807	2
Salvation Army	\$6,071	1
Sigma Theta Tau International	\$2,000	1
Social Science Research Council	\$20,000	1
Southwest Pennsylvania Area Health Education Center	\$30,200	2
Spinal Cord Injury Education and Training Foundation	\$59,564	2
Spinal Cord Research Foundation	\$50,000	1
Thoracic Surgery Foundation for Research and Education	\$30,000	1
Tri-State Area School Study Council	\$149,450	1
United Network for Organ Sharing	\$78,687	1
United Way of Allegheny County	\$6,325	1
Western Maryland Area Health Education Center	\$20,000	2

TOTALS	\$10,363,828	179
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PITT-AFFILIATED UNITS	AMOUNT	AWARDS
Children's Hospital of Pittsburgh	\$458,452	14
Eye and Ear Foundation	\$50,000	1
Magee-Womens Hospital	\$854,382	10
MPC Corporation	\$644,379	8
Pittsburgh Tissue Engineering Initiative	\$249,968	5
University Radiologists	\$24,247	1

TOTALS	\$2,281,428	39
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GRAND TOTALS	\$295,103,416	1,917
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Area/Department Tables for Pitt Awards

UNIVERSITY OF PITTSBURGH AREA/DEPARTMENT SUMMARY 7/1/97 - 6/30/98

- [Schools](#)
- [Centers](#)
- [Regional Campuses](#)
- [Administrative Offices](#)

-- SCHOOLS --

AREA	DEPARTMENT	AMOUNT	AWARD
Arts and Sciences (Faculty of)	Africana Studies	\$213,777	9
	Anthropology	\$206,990	10
	Biological Sciences	\$5,667,081	43
	Center for Cultural Resource Research	\$110,367	13
	Chemistry	\$5,556,383	55
	Computer Science	\$1,550,039	18
	Crystallography	\$120,951	1
	Economics	\$603,621	8
	English	\$219,819	6
	Geology and Planetary Science	\$251,020	6
	Graduate Studies	\$248,751	6
	Hispanic Languages and Literatures	\$11,310	1
	History and Philosophy of Science	\$12,271	1
	History of Art and Architecture	\$175,000	2
	Intelligent Systems	\$141,889	1
	Linguistics	\$170,447	2
	Mathematics	\$316,985	8
	Music	\$11,000	3
	Neuroscience	\$3,794,949	30
	Office of the Dean	\$10,000	1
	Physics and Astronomy	\$3,861,197	55
	Political Science	\$26,250	1
	Psychology	\$4,134,799	16
Religious Studies	\$25,000	1	
Statistics	\$274,203	4	
University Challenge for Excellence Programs	\$417,400	2	
	TOTALS	\$28,131,499	303
Business (Katz Graduate School of)	Business Administration	\$924,451	8
	TOTALS	\$924,451	8

Dental Medicine (School of)	Anatomy and Histology	\$94,754	1
	Cleft Palate Center	\$108,043	2
	Microbiology and Biochemistry	\$86,619	2
	Office of the Dean	\$114,636	4
	Oral and Maxillofacial Surgery	\$32,500	2
	Orthodontics	\$98,962	1
	Periodontics	\$250,196	4
	TOTALS	\$785,710	16
Education (School of)	Administrative and Policy Studies	\$263,925	5
	Health, Physical and Recreation Education	\$442,651	10
	Institute for International Studies in Education	\$157,604	9
	Institute for Practice and Research in Education	\$120,420	6
	Instruction and Learning	\$1,643,078	18
	Office of the Dean	\$83,750	1
	Psychology in Education	\$371,666	3
	TOTALS	\$3,083,094	52
Engineering (School of)	Bioengineering Program	\$1,625,597	4
	Chemical and Petroleum	\$2,595,388	33
	Civil and Environmental	\$293,870	7
	Electrical	\$864,302	14
	Industrial	\$1,635,183	21
	Investing NOW	\$40,000	2
	Materials Science and Engineering	\$1,343,661	12
	Mechanical	\$160,006	6
	Office of the Dean	\$4,702	1
	TOTALS	\$8,562,709	100
General Studies (College of)	General Administration	\$39,506	2
	TOTALS	\$39,506	2
Health and Rehabilitation Sciences (School of)	Communication Science and Disorders	\$319,711	4
	Medical Technology	\$166,040	1
	Physical Therapy	\$476,512	5
	Rehabilitation Science and Technology	\$1,294,325	10
	TOTALS	\$2,256,588	20
Information Sciences (School of)	Information Science and Telecommunications	\$1,420,145	11
	Library and Information Science	\$495,022	2
	Telecommunications Program	\$398,155	6
	TOTALS	\$2,313,322	19
Law (School of)		\$407,150	3
	TOTALS	\$407,150	3

Medicine	Anesthesiology	\$6,747,718	36
(School of)	Cell Biology and Physiology	\$3,701,480	26
	Center for Clinical Pharmacology	\$3,700,161	11
	Center for Research and Health Care	\$10,000	1
	Dermatology	\$11,200	1
	Emergency Medicine	\$355,646	6
	Family Medicine and Clinical Epidemiology	\$799,103	6
	Medicine	\$27,414,440	261
	Molecular Genetics and Biochemistry	\$11,921,780	58
	Neurobiology	\$3,053,922	18
	Neurological Surgery	\$3,756,309	15
	Neurology	\$6,005,446	35
	Office of the Dean	\$687,628	8
	Ophthalmology	\$2,466,439	13
	Orthopaedic Surgery	\$1,487,947	30
	Otolaryngology	\$1,866,007	19
	Pathology	\$3,625,432	29
	Pediatrics	\$468,463	2
	Pharmacology	\$4,934,157	39
	Psychiatry	\$57,370,503	231
	Radiology	\$3,996,489	19
	Surgery	\$14,963,567	84
	TOTALS	\$159,343,837	948
Nursing		\$3,294,857	29
(School of)			
	TOTALS	\$3,294,857	29
Pharmacy	Pharmaceutical Sciences	\$1,082,645	5
(School of)			
	TOTALS	\$1,082,645	5
Public and International Affairs		\$115,818	2
(Graduate School of)			
	TOTALS	\$115,818	2
Public Health	Biostatistics	\$789,197	9
(Graduate	Environmental and Occupational Health	\$3,188,479	27
School of)	Epidemiology	\$14,690,405	58
	Health Services Administration	\$1,876,668	22
	Human Genetics	\$4,934,128	30
	Infectious Diseases and Microbiology	\$5,642,052	17
	Office of the Dean	\$325,176	9
	Student Affairs	\$28,548	1
	TOTALS	\$31,474,653	173
Social Work	Graduate Program	\$6,938,048	6
(School of)			
	TOTALS	\$6,938,048	6

-- CENTERS --

AREA	DEPARTMENT	AMOUNT	AWARD
Biotechnology and Bioengineering (Center for)		\$342,535	3
	TOTALS	\$342,535	3
International Studies (University Center for)		\$2,474,391	17
	TOTALS	\$2,474,391	17
Learning Research and Development Center		\$12,179,765	68
	TOTALS	\$12,179,765	68
Pittsburgh Cancer Institute (University of)		\$19,915,582	73
	TOTALS	\$19,915,582	73
Social and Urban Research (University Center for)		\$7,198,104	46
	TOTALS	\$7,198,104	46

-- REGIONAL CAMPUSES --

AREA	DEPARTMENT	AMOUNT	AWARD
Bradford (University of Pittsburgh at)	Allegheny Research and Development Center Geology	\$67,955 \$20,000	1 1
	TOTALS	\$87,955	2
Johnstown (University of Pittsburgh at)	Engineering Natural Science Public Affairs Sociology	\$107,080 \$23,909 \$4,000 \$150,000	1 1 1 1
	TOTALS	\$284,989	4

-- ADMINISTRATIVE OFFICES --

AREA	DEPARTMENT	AMOUNT	AWARD
Provost (Office of the)		\$7,500	1
	Center for Instructional Development		
	Distance Educ.	\$1,985,000	2
	Institute of Politics	\$273,333	5
	Mid-Atlantic Technology		
	Applications Center	\$1,200,000	1
	University Library System	\$110,725	3
	University Press	\$139,500	3
	TOTALS	\$3,716,058	15
Senior Vice Chancellor for Health Sciences (Office of the)	Falk Library	\$125,000	1
	TOTALS	\$125,000	1
Senior Vice Chancellor of Business and Finance (Office of the)	Facilities Management	\$16,200	1
	Parking and Transportation	\$8,950	1
	TOTALS	\$25,150	2
GRAND TOTALS		\$295,103,416	1,917
