



NATIONAL SCIENCE FOUNDATION
ARLINGTON, VA 22230

**SURVEY OF RESEARCH AND DEVELOPMENT EXPENDITURES
AT UNIVERSITIES AND COLLEGES, FY 2006**

Please submit your survey data by January 30, 2007.

The Web address for submitting your data:

<http://www.qrc.com/expweb>

Or, mail this form to:

ORC Macro
7315 Wisconsin Avenue, Suite 400W
Bethesda, MD 20814-3202

Or, e-mail your response to:

expweb@qrc.com

The Web password and user ID were e-mailed to each institution. If you have questions about this or any other issue, please call: Survey Support at ORC Macro, 1-866-349-8626. For general survey questions, you may also contact Ronda Britt of NSF at rbritt@nsf.gov or (703) 292-7765.

Your cooperation in returning the survey questionnaire promptly is very important. This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. Your response is entirely voluntary; your failure to provide some or all of the information will in no way adversely affect your institution.

Report data for your institution's 2006 fiscal year. All financial data should be reported in thousands of dollars; for example, an expenditure of \$25,342 should be rounded to the nearest thousand dollars and reported as \$25.

Where exact data are not available, estimates are acceptable. Your estimates will be better than ours.

Include data for branches and all organizational units of your institution, such as medical schools and agricultural experiment stations. Data on research centers and facilities administered by your institution should be included. In addition, include hospitals or clinics owned, operated, or controlled by universities, and integrated operationally with the clinical programs of your medical schools.

NOTE: Academic institutions should exclude data for federally funded research and development centers (FFRDCs). Data for these facilities are collected separately.

It is estimated that response to this survey will require 22 hours. If you wish to comment on this burden, please contact Suzanne H. Plimpton of NSF at (703) 292-7556, or e-mail splimpto@nsf.gov.

Scope:

This survey collects data on expenditures by universities and colleges for separately budgeted research and development (R&D). Definitions used are compatible with OMB Circular A-21, revised May 10, 2004. Items 1 and 2 ask for *current fund expenditures* by source of funds and by field of science and engineering. Item 3 collects data on that *portion of current fund expenditures* reported in Items 1 and 2 that went for the purchase of scientific and engineering research equipment. Item 2A asks for current fund expenditures in non-science and engineering fields, and Item 2B requests information on the Federal Government agency sources of current fund expenditures by field of science and engineering.

Definitions:

Research and Development (R&D). R&D for purposes of this survey is the same as "organized research" as defined in Section B.1.b. of OMB Circular A-21 (revised). It includes all R&D activities of an institution that are separately budgeted and accounted for. R&D includes both "sponsored research" activities (sponsored by Federal and non-Federal agencies and organizations) and "university research" (separately budgeted under an internal application of institutional funds).

Research is systematic study directed toward fuller knowledge or understanding of the subject studied. Research is classified as either basic or applied, according to the objectives of the investigator.

Development is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes.

Current fund expenditures. These are expenditures of funds available for current operations. Such expenditures include all unrestricted gifts and restricted current funds to the extent that such funds were expended for current operating purposes.

Please circle the month in which your institution's fiscal year begins:

Jan Feb Mar Apr May Jun Jul Aug Sept Oct Nov Dec

Primary Contact—Person who is responsible for your institution's survey answers:

Name (Mr., Mrs., Ms., Dr. (circle one)):	
Title:	E-mail:
Telephone number:	Fax:
Address:	Date submitted:

Alternate Contact—Person to contact if the Primary Contact is unavailable. This person should know that you are the Primary Contact for the survey. Examples include your supervisor, the data preparer, or another coworker:

Name (Mr., Mrs., Ms., Dr. (circle one)):	
Title:	E-mail:
Telephone number:	Fax:

Instructions for Items 1 and 2

Separately budgeted research and development (R&D) includes all funds expended for activities specifically organized to produce research outcomes and commissioned by an agency either external to the institution or separately budgeted by an organizational unit within the institution. *Include* research equipment purchased under research project awards from “current fund” accounts. Also *include* research funds for which an outside organization, educational or other, is a subrecipient. *Exclude* training grants, public service grants, demonstration projects, clinical trials, and departmental research expenditures that are not separately budgeted. Also, *exclude* any R&D expenditures in the fields of education, law, humanities, music, the arts, physical education, library science, and all other non-science fields. These non-science and engineering R&D expenditures are reported in Item 2A. Allocate funding to the original sources whenever possible, as specified below. If this information is unknown, report the proximate funding source.

Total

- a. **Federal Government.** Report awards for R&D (including direct and reimbursed indirect costs) by all agencies of the Federal Government.
- b. **State and local governments.** Include funds for R&D (including direct and reimbursed indirect costs) from State, county, municipal, or other local governments and their agencies. Include here State funds that support R&D at agricultural and other experiment stations.
- c. **Industry.** Include all awards for R&D (including direct and reimbursed indirect costs) from profit-making organizations, whether engaged in production, distribution, research, service, or other activities. Do not include awards from nonprofit foundations financed by industry; these should be included under “All other sources.”
- d. **Institution funds.** Report funds, *including* related indirect costs, that your institution spent for R&D activities from the following unrestricted sources: general-purpose State or local government appropriations; general-purpose awards from industry, foundations, or other outside sources; tuition and fees; endowment income; gifts; and other institutional funds. In addition, estimate your institution’s on-campus and off-campus unreimbursed indirect costs associated with externally funded R&D projects, including mandatory and voluntary cost sharing. To estimate unreimbursed indirect costs, preferably on a project-by-project basis, use your appropriate on-campus or off-campus **negotiated research indirect cost rate(s)** multiplied by the corresponding base(s) minus actual indirect cost recovery.
- e. **All other sources.** Include awards for R&D (including direct and reimbursed indirect costs) from nonprofit foundations and voluntary health agencies as well as from all other sources not elsewhere classified. Also include gifts from individuals that are restricted by the donor to research. Funds from foundations that are affiliated with, or granted solely to your institution, should be included under “Institution funds.” Funds for R&D received from a health agency that is a unit of a State or local government should be included under “State and local governments.”

Instructions for Items 1A and 1B

For Federal awards, **subrecipient** means the non-Federal entity that expends Federal awards received from a pass-through entity to carry out a Federal program, but does not include an individual that is a beneficiary of such a program. A subrecipient may also be a recipient of other Federal awards directly from a Federal awarding agency.

—OMB Circular A-133, Section .105 (revised June 27, 2003) For awards from non-Federal sources, the subrecipient definition is analogous to the Federal one.

Higher Education [subrecipients] refers to all academic colleges and universities and all units owned, operated, and controlled by such institutions.

Item 1. How much of your current fund expenditures for separately budgeted research and development in the sciences and engineering (including indirect costs) came from the following sources in FY 2006?

Source of Funds	Line No.	(1) Total (Dollars in thousands)	(2) What Percentage of Federal & Total Funds Are Basic Research?
a. Federal Government	1110	\$	_____ %
b. State and local governments	1125		Basic research is directed toward an increase of knowledge; it is research where the primary aim of the investigator is a fuller knowledge or understanding of the subject under study rather than a specific application thereof.
c. Industry	1150		
d. Institution funds (sum of lines 1161 and 1162)	1160		
(1) Institutionally financed organized research	1161		
(2) Unreimbursed indirect costs and related sponsored research	1162		
e. All other sources	1175		
f. TOTAL (sum of a through e)	1100	\$	_____ %

BASIC RESEARCH
Please provide the percentages of Federal and total expenditures that are basic research (not applied research) as defined in column (2).

CONFIDENTIALITY
Information received from individual institutions in lines d(1) and d(2), or estimates for basic research expenditures, will NOT be published or released; only aggregate totals will appear in tabulations.

Item 1A. How much of your total (item 1, line f) and Federal (item 1, line a) R&D expenditures were passed through by your institution to subrecipients? (If all information is not available, report those amounts that are available. Exclude vendor relationships.)

Subrecipients	Line No.	(Dollars in thousands)	
		(1) Total	(2) Federal
To higher education subrecipients	1910		
To other subrecipients	1920		
To all subrecipients	1900	\$	\$

Item 1B. How much of your total (item 1, line f) and Federal (item 1, line a) R&D expenditures did your institution receive as a subrecipient? (If all information is not available, report those amounts that are available. Exclude vendor relationships.)

Your Institution as a Subrecipient	Line No.	(Dollars in thousands)	
		(1) Total	(2) Federal
From higher education pass-through entities	1610		
From other pass-through entities	1620		
From all pass-through entities	1600	\$	\$

Item 2. Allocate your FY 2006 current fund expenditures (total and federally financed) for separately budgeted research and development (including indirect costs) by field of science and engineering.

Please note that total R&D expenditures in line j, column (1) should be the same as reported in Item 1, line f.

Total Federal R&D expenditures in line j, column (2) should be the same as reported in Item 1, line a.

Please see pages 8 and 9 for the NSF/NCES Crosswalk of Discipline Codes.

Field of Science and Engineering	Line No.	(Dollars in thousands)	
		(1) Total	(2) Federal
a. Engineering (Total)	1410	\$	\$
(1) Aeronautical & astronautical	1411		
(2) Bioengineering/biomedical engineering	1418		
(3) Chemical	1412		
(4) Civil	1413		
(5) Electrical	1414		
(6) Mechanical	1415		
(7) Metallurgical & materials	1417		
(8) Other	1416		
b. Physical Sciences (Total)	1420		
(1) Astronomy	1421		
(2) Chemistry	1422		
(3) Physics	1423		
(4) Other	1424		
c. Environmental Sciences (Total)	1430		
(1) Atmospheric	1431		
(2) Earth sciences	1432		
(3) Oceanography	1433		
(4) Other	1434		
d. Mathematical Sciences (Total)	1441		
e. Computer Sciences (Total)	1442		
f. Life Sciences (Total)	1450		
(1) Agricultural	1451		
(2) Biological	1452		
(3) Medical	1453		
(4) Other	1454		
g. Psychology (Total)	1460		
h. Social Sciences (Total)	1470		
(1) Economics	1471		
(2) Political science	1472		
(3) Sociology	1473		
(4) Other	1474		
i. Other Sciences, not elsewhere classified (Total)	1480		
j. Total (sum of a through i)	1400	\$	\$

Please EXCLUDE from your response any R&D expenditures in the fields of education, law, humanities, music, the arts, physical education, library science, and all other non-science and engineering fields. These non-science and engineering R&D expenditures are reported in Item 2A.

Item 3. Allocate the portion of your FY 2006 current fund expenditures (total and federally financed) for separately budgeted research and development that went for the purchase of research equipment by field of science and engineering.

Please report that portion of current fund expenditures reported in items 1 and 2 that went for the purchase of research equipment. This includes all research equipment purchased under sponsored research project awards from current fund accounts.

For column (1), report current fund expenditures for R&D from all sources: Federal Government, State, county, municipal or other governments and their agencies (including State funds supporting R&D at agricultural experiment stations); industry; institution funds; and private foundations and voluntary health agencies, individuals, and associations.

For column (2), include funds from awards for R&D sponsored by agencies of the Federal Government.

Please see pages 8 and 9 for the NSF/NCES Crosswalk of Discipline Codes.

Field of Science and Engineering	Line No.	(Dollars in thousands)	
		(1) Total	(2) Federal
a. Engineering (Total)	1810	\$	\$
(1) Aeronautical & astronautical	1811		
(2) Bioengineering/biomedical engineering	1818		
(3) Chemical	1812		
(4) Civil	1813		
(5) Electrical	1814		
(6) Mechanical	1815		
(7) Metallurgical & materials	1817		
(8) Other	1816		
b. Physical Sciences (Total)	1820		
(1) Astronomy	1821		
(2) Chemistry	1822		
(3) Physics	1823		
(4) Other	1824		
c. Environmental Sciences (Total)	1830		
(1) Atmospheric	1831		
(2) Earth sciences	1832		
(3) Oceanography	1833		
(4) Other	1834		
d. Mathematical Sciences (Total)	1841		
e. Computer Sciences (Total)	1842		
f. Life Sciences (Total)	1850		
(1) Agricultural	1851		
(2) Biological	1852		
(3) Medical	1853		
(4) Other	1854		
g. Psychology (Total)	1860		
h. Social Sciences (Total)	1870		
(1) Economics	1871		
(2) Political science	1872		
(3) Sociology	1873		
(4) Other	1874		
i. Other Sciences, not elsewhere classified (Total)	1880		
j. Total (sum of a through i)	1800	\$	\$

Current fund expenditures in each field for scientific research equipment is that PORTION or SUBTOTAL of the amounts reported in the corresponding cells of the "Total" and "Federal" columns in Item 2.

Item 2A. What were your current fund expenditures (total and federally financed) for separately budgeted research and development (including indirect costs) for non-science and engineering fields in FY 2006?

NOTE: For rows 2A(a) through 2A(i), report only data that have not been reported in Items 1 and 2 on this survey. Non-S&E R&D should **include** any separately budgeted scholarly and creative activity, but should **exclude** training.

Non-science & Engineering Fields	Line No.	(Dollars in thousands)	
		(1) Total	(2) Federal
a. Education	1510	\$	\$
b. Law	1520		
c. Humanities	1530		
d. Visual & Performing Arts	1540		
e. Business and Management	1550		
f. Communications, Journalism, and Library Science	1560		
g. Social Work	1570		
h. Other Non-S&E Fields (please specify)	1580		
i. Total, Non-S&E Fields (sum of a through h)	1500		
j. Total, S&E (from Item 2, line j)	1400		
k. Grand Total (sum of i and j)	2000	\$	\$

CROSSWALK BETWEEN NSF NON-SCIENCE & ENGINEERING FIELDS AND THE NATIONAL CENTER FOR EDUCATION STATISTICS (NCES) CLASSIFICATION OF INSTRUCTIONAL PROGRAMS (CIP)

Questionnaire Field	CIP Code	CIP Program Category Title
Education	13.xx	Education
Law	22.xx	Legal Professions and Studies
Humanities	16.xx	Foreign Languages, Literatures, and Linguistics
	23.xx	English Language and Literature/Letters
	24.xx	Liberal Arts and Sciences, General Studies and Humanities
	38.xx	Philosophy and Religious Studies
	39.xx	Theology and Religious Vocations
	54.xx	History (except History of Science)
Visual & Performing Arts	50.xx	Visual and Performing Arts
Business and Management	52.xx	Business, Management, Marketing, and Related Support Services
Communications, Journalism, and Library Science	09.xx	Communication, Journalism and Related Programs
	25.xx	Library Science
	10.xx	Communications Technologies/Technicians and Support Services
Social Work	44.07	Social Work
Other Non-S&E Fields	31.xx	Parks, Recreation, Leisure and Fitness Studies
	29.xx	Military Technologies

Item 2B. What were the Federal Government agency sources for your FY 2006 federally financed current fund expenditures for separately budgeted research and development (including indirect costs) (item 2, column 2) by field of science and engineering?

Total Federal expenditures reported in Item 2B, column 1 should be the same as the Federal expenditures reported in Item 2, column 2.

Allocate funding to the original sources whenever possible. If that information is unknown, report the proximate funding source.

KEY: USDA, Department of Agriculture; DoD, Department of Defense; DOE, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NSF, National Science Foundation. "Other" Federal sources include all other Federal agencies.

		(Dollars in thousands)								
Field of Science and Engineering	Line No.	(1) Total Federal	Specific Federal Agencies						(7) NSF	(8) Other
			(2) USDA	(3) DoD	(4) DOE	(5) HHS*	(6) NASA			
a. Engineering (Total)	1410	\$								
(1) Aeronautical & astronautical	1411									
(2) Bioengineering/biomedical engineering	1418									
(3) Chemical	1412									
(4) Civil	1413									
(5) Electrical	1414									
(6) Mechanical	1415									
(7) Metallurgical & materials	1417									
(8) Other	1416									
b. Physical Sciences (Total)	1420									
(1) Astronomy	1421									
(2) Chemistry	1422									
(3) Physics	1423									
(4) Other	1424									
c. Environmental Sciences (Total)	1430									
(1) Atmospheric	1431									
(2) Earth sciences	1432									
(3) Oceanography	1433									
(4) Other	1434									
d. Mathematical Sciences (Total)	1441									
e. Computer Sciences (Total)	1442									
f. Life Sciences (Total)	1450									
(1) Agricultural	1451									
(2) Biological	1452									
(3) Medical	1453									
(4) Other	1454									
g. Psychology (Total)	1460									
h. Social Sciences (Total)	1470									
(1) Economics	1471									
(2) Political science	1472									
(3) Sociology	1473									
(4) Other	1474									
i. Other Sciences (Total)	1480									
j. Total (sum of a through i)	1400	\$								

* Includes NIH.

Please EXCLUDE from your response any R&D expenditures in the fields of education, law, humanities, music, the arts, physical education, library science, and all other non-science and engineering fields.

**CROSSWALK BETWEEN NSF FIELDS OF SCIENCE & ENGINEERING AND THE
NATIONAL CENTER FOR EDUCATION STATISTICS (NCES) CLASSIFICATION OF INSTRUCTIONAL PROGRAMS**

The left-hand column shows each of the detailed fields as displayed on the questionnaire form. The right-hand column shows the NCES fields that are included within the NSF category as well as some additional illustrative disciplines. These additional disciplines are intended to be guidelines—not sharp definitions—as to what should be reported under a particular field.

QUESTIONNAIRE FIELD	NCES CLASSIFICATION AND ADDITIONAL ILLUSTRATIVE DISCIPLINES			
a. ENGINEERING (1) Aeronautical and Astronautical	14.02 Aerospace, Aeronautical and Astronautical Engineering (also aerodynamics, space technology)			
(2) Bioengineering/ Biomedical Engineering	14.05 Biomedical/Medical Engineering (also all bioengineering)			
(3) Chemical	03.0509 Wood Science and Wood Products/Pulp and Paper Technology 14.07 Chemical Engineering (also petroleum refining process)	14.25 Petroleum Engineering 14.32 Polymer/Plastics Engineering		
(4) Civil	04.02 Architecture 14.04 Architectural Engineering	14.08 Civil Engineering 14.14 Environmental/ Environmental Health Engineering	(also geotechnical, hydraulic, hydrologic, sanitary and environmental, structural, transportation)	
(5) Electrical	14.09 Computer Engineering, General 14.10 Electrical, Electronics, and Communications Engineering (also power engineering)			
(6) Mechanical	14.11 Engineering Mechanics	14.19 Mechanical Engineering		
(7) Metallurgical & Materials	14.06 Ceramic Sciences and Engineering 14.18 Materials Engineering 14.20 Metallurgical Engineering (also welding)	14.21 Mining and Mineral Engineering 14.28 Textile Sciences and Engineering	14.31 Materials Science 40.9999 Physical Sciences, Other	
(8) Other	14.01 Engineering, General 14.12 Engineering Physics 14.13 Engineering Science	14.22 Naval Architecture and Marine Engineering 14.23 Nuclear Engineering	14.24 Ocean Engineering 14.27 Systems Engineering 14.99 Engineering, Other 30.06 Systems Science and Theory (also agricultural engineering, marine and ocean engineering systems)	
b. PHYSICAL SCIENCES (1) Astronomy	40.02 Astronomy and Astrophysics (also Gamma-ray, neutrino, optical and radio, X-ray)			
(2) Chemistry	40.05 Chemistry (also analytical, inorganic, organic, organo-metallic, pharmaceutical, physical, polymer sciences (except biochemistry))			
(3) Physics	40.08 Physics (also acoustics, atomic/molecular, chemical, condensed matter, elementary particles, nuclear structure, optics, plasma, theoretical/mathematical)			
(4) Other	40.01 Physical Sciences 40.99 Physical Sciences, Other (used for multidisciplinary projects within physical sciences and for disciplines not requested separately)			
c. ENVIRONMENTAL SCIENCES (1) Atmospheric	40.04 Atmospheric Sciences and Meteorology (also aeronomy, extraterrestrial atmospheres, solar, weather modification)			
(2) Earth Sciences	15.1102 Survey Technology/ Surveying 40.06 Geological and Earth Sciences/Geosciences	40.0601 Geology/Earth Science, General 45.0702 Cartography	(also engineering geophysics, general geology, geodesy and gravity, geomagnetism, hydrology, inorganic, isotopic, lab geophysics, organic geochemistry, paleomagnetism, paleontology, physical geography, seismology)	
(3) Oceanography	26.1302 Marine Biology and Biological Oceanography 40.0607 Oceanography, Chemical and Physical (also biological, chemical, geological, physical)			
(4) Other	(used for multidisciplinary projects within Earth, Atmospheric, and Ocean Sciences)			
d. MATHEMATICAL SCIENCES	14.3701 Operations Research 27.01 Mathematics	27.03 Applied Mathematics 27.05 Statistics	27.99 Mathematics and Statistics, Other 30.08 Mathematics and Computer Science	(also algebra, analysis, foundations and logic, geometry, numerical analysis, topology)

QUESTIONNAIRE FIELD	NCES Classification and Additional Illustrative Disciplines (cont.)					
e. COMPUTER SCIENCES	11. Computer and Information Sciences and Support Services 52.1201 Management Information Systems, General (also design, development, and application of computer capabilities to data storage and manipulation, information science)					
f. LIFE SCIENCES (1) Agricultural	01.03 Agricultural Production Operations 01.0303 Aquaculture 01.07 International Agriculture 01.12 Soil Sciences 03. Natural Resources and Conservation 04.06 Landscape Architecture (also agricultural chemistry, agronomy, animal science, conservation, fish and wildlife, forestry, horticulture)					
(2) Biological	19.05 Foods, Nutrition, and Related Services 26.01 Biology, General 26.0202 Biochemistry 26.0203 Biophysics 26.03 Botany/Plant Biology 26.04 Cell/Cellular Biology and Anatomical Sciences 26.0403 Anatomy 26.05 Microbiological Sciences and Immunology 26.0503 Medical Microbiology and Bacteriology 26.0505 Parasitology 26.0507 Immunology 26.0701 Zoology/Animal Biology 26.0702 Entomology 26.0707 Animal Physiology 26.0799 Zoology/Animal Biology, Other 26.0804 Animal Genetics 26.09 Physiology, Pathology and Related Sciences 26.0910 Pathology/Experimental Pathology 26.1001 Pharmacology 26.1004 Toxicology 26.1101 Biometry/Biometrics 26.1102 Biostatistics 26.1301 Ecology 26.1309 Epidemiology 26.99 Biological and Biomedical Sciences, Other 30.1901 Nutrition Sciences (also allergies and immunology, biogeography, biotechnology, pathology, physical anthropology, virology)					
(3) Medical	26.0209 Radiation Biology/Radiobiology 26.9999 Biological and Biomedical Sciences, Other 30.2401 Neuroscience 51.04 Dentistry (DDS, DMD) Anesthesiology Cardiology Colon and Rectal Surgery Dental/Oral Surgery Dermatology Family Medicine Gastroenterology General Surgery Geriatric Medicine Hematology 51.1201 Medicine (MD) 51.1610 Psychiatric/Mental Health Nurse/Nursing 51.17 Optometry (OD) 51.19 Osteopathic Medicine/Osteopathy (DO) Internal Medicine Medical Programs Other Neonatal-Perinatal Medicine Neurological Surgery Neurology Nuclear Medicine Nuclear Radiology Obstetrics and Gynecology Oncology 51.20 Pharmacy, Pharmaceutical Sciences, and Administration 51.21 Podiatric Medicine/Podiatry (DPM) 51.22 Public Health 51.24 Veterinary Medicine (DVM) ¹ Ophthalmology Orthopedics/Orthopedic Surgery Otorhinolaryngology Pediatrics Pharmacology Physical and Rehabilitative Medicine Plastic Surgery Preventive Medicine Psychiatry Thoracic Surgery Urology (exclude all residency programs)					
(4) Other	30.11 Gerontology 51.02 Communication Disorders Sciences and Services 51.07 Health and Medical Administrative Services 51.10 Clinical/Medical Laboratory Science and Allied Professions 51.16 Nursing 51.2306 Occupational Therapy/Therapist 51.2308 Physical Therapy/Therapist 51.2399 Rehabilitation and Therapeutic Professions, Other 51.99 Health Professions and Related Clinical Sciences, Other (used for multidisciplinary projects within life sciences)					
g. PSYCHOLOGY	42.01 Psychology, General 42.02 Clinical Psychology 42.17 School Psychology 51.2301 Art Therapy/Therapist (also animal behavior, educational, experimental, human development and personality, social)					
h. SOCIAL SCIENCES (1) Economics	01.0103 Agricultural Economics 45.06 Economics 52.06 Business/Managerial Economics (also applied, development, econometrics, industrial, international, labor, public finance and fiscal policy, quantitative, resource)					
(2) Political Science	44.04 Public Administration 44.05 Public Policy Analysis 44.99 Public Administration and Social Service Professions, Other 45.09 International Relations and Affairs 45.10 Political Science and Government (also comparative government, legal systems, political theory, regional studies)					
(3) Sociology	45.02 Anthropology (Social and Cultural only) 45.05 Demography and Population Studies 45.11 Sociology (also comparative and historical, complex organizations, cultural and social structure, group interactions, social problems and welfare theory)					
(4) Other	04.03 City/Urban, Community and Regional Planning 05. Area, Ethnic, Cultural, and Gender Studies 16.0102 Linguistics 43.01 Criminal Justice and Corrections 44.02 Community Organization and Advocacy 45.01 Social Sciences, General 45.03 Archeology 45.07 Geography and Cartography 45.12 Urban Studies/Affairs 45.99 Social Sciences, Other (also history of science, socioeconomic geography)					
i. OTHER, n.e.c.	(used when the multidisciplinary and interdisciplinary aspects make the classification under one primary field impossible)					

¹ Institutions with schools of veterinary medicine should distribute R&D expenditures among the appropriate disciplines (agricultural, biological, and medical) rather than only in medical sciences.

Questions and Answers

This document answers common questions about the academic R&D expenditures survey.

DATA USES AND AVAILABILITY

How are these data typically used?

Congress has directed NSF to provide “a central clearinghouse for the collection, interpretation, and analysis of data on scientific and engineering resources and to provide a source of information for policy formulation by other agencies of the Federal Government...” As part of its response, the Division of Science Resources Statistics (SRS) conducts annual surveys of the research and development (R&D) expenditures at the Nation’s universities and colleges.

Congress and Federal and State government planners use the data for science policy analysis, national and international studies, legislative hearing reports, budget formulation sessions, and other measurements of the adequacy of the Nation’s research base. Academic institutions use the information for policy analysis, publicity, and other purposes. Industrial firms often request data to prepare for on-campus recruiting. The data often appear in higher education studies and publications.

How are the data made available?

NSF’s annual *Academic Research and Development Expenditures Survey* compiles detailed data in a comprehensive document, available on request. Institutional profiles show trend data for responses at the institutional level from all academic science and engineering (S&E) surveys.

Survey data are now available on the Web. To obtain the most recent survey publications and data tables, data files, institutional profiles, and access to WebCASPAR, the Web-based Computer-Aided Science Policy Analysis and Research database system, direct your browser to <http://www.nsf.gov/statistics/>.

FIELD OF SCIENCE CLASSIFICATIONS

How should I assign field classifications for R&D performed in multidisciplinary centers?

Multidisciplinary research should be categorized by individual research project according to the nature of the research performed. When individual projects encompass multiple fields of S&E, prorate expenditures to report the proportions of each discipline involved. Do not lump funds together into “other” field categories unless the type of research is actually defined as “other.” NSF recommends crediting such research to the appropriate S&E discipline when the project first begins.

How should I allocate research dollars spent for computing or supercomputing services?

Report research dollars spent for computer usage to the individual fields of science and engineering for which the R&D is performed. Do not report these funds in computer science, unless computer science research was performed.

What fields should be excluded from the science and engineering totals?

Exclude fields that are considered to be non-science—education, law, humanities, business, music, the arts, library science, and physical education. Note that you would report separately budgeted R&D for the philosophy of science (a science category), but not philosophy (one of the humanities). The NSF/NCES Crosswalk included with the questionnaire lists all S&E fields.

BASIC RESEARCH

How should basic research be calculated?

The percentage of basic research should be defined at the individual grant level by each principal researcher. Where this is not possible, grants should be reviewed by each department head or other relevant research coordinator.

SOURCES OF FUNDING

Should faculty practice plan income be included in the survey?

Expenditures for faculty practice plans are not considered research and should not be included. If income from such plans is used to fund other research and the funds are separately budgeted, then the expenditures should be included in institutional funds.

How much of our administrative costs can be reported in the survey?

Administrative salaries and other administrative costs, particularly at your organized research units, can be reported only if funded through projects specifically restricted and budgeted for research. General administrative costs should not be reported.

How should I report institutional funds?

All research dollars reported for your institution should be funds that are separately budgeted and restricted for research, such as sponsored research accounts or general accounts that are specifically budgeted for research. Do not include funds not specifically budgeted for research.

If your institution does not track underrecovery of indirect costs, use the underrecovery formula included in the questionnaire instructions. Do not forget to include and distribute unreimbursed indirect costs by detailed field in survey Item 2.

Be sure to report all indirect costs related to your institutional funds.

Can I report donated research equipment in the survey?

Since donated research equipment is not typically captured in university accounting systems, the value of donated research equipment should not be reported.

COLLABORATIVE RESEARCH ARRANGEMENTS

Should I report expenditures received through collaborative research ventures with other institutions?

Report only what your institution actually expends and accounts for when participating in joint research ventures.

How do I distinguish between being a subrecipient of pass-through funds and being a subcontractor of R&D services?

For Federal awards, a subrecipient is an entity that receives Federal financial assistance from the State or any other entity to administer a program (OMB Circular A-133, Section .210 (revised)). The subrecipient actually administers or controls the program, as opposed to the subcontractor who contracts for a specific service on a per-unit basis. A key factor in determining if a subrecipient arrangement exists is determining if the entity assumes the responsibility to administer the program. Subrecipients tend to be the co-authors of publications, writers of technical reports discussing findings, inventors, etc. Unlike a subrecipient relationship, a subcontract is a procurement of goods and/or services. Payments to subcontractors are expenditures for services, not expenditures for research, and are different from pass-through funds to subrecipients.

ORGANIZATIONAL UNITS

Which organizational units should I include in the survey?

Include research conducted through units that are considered part of your institution's organizational structure. For example, report expenditures from branch campuses, medical schools, agricultural stations, research centers and institutes, and any other units whose expenditures are separately budgeted **and are accounted for by your institution's financial system**. Exclude R&D expenditures performed by federally funded research and development centers (FFRDCs), nonprofit institutions, and private laboratories. Do not report salaries of faculty doing research at outside institutions unless your institution accounts for the funding of that research.

For more information, contact Survey Support at 1-866-349-8626 or expweb@qrc.com. For general questions regarding survey procedures and data reporting, contact Ronda Britt of NSF at rbritt@nsf.gov or (703) 292-7765.