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NATIONAL SCIENCE FOUNDATION

ALEXANDRIA, VA 22314

HIGHER EDUCATION RESEARCH AND DEVELOPMENT SURVEY FY 2019

Please submit your survey data by January 31, 2020.

Your participation in this survey provides important information on the national level of R&D activity. The National Science Foundation (NSF) is authorized to collect this information under the National Science Foundation Act of 1950, as amended. Your institution's response is entirely voluntary.

Response to this survey is estimated to require 54 hours. If you wish to comment on the time required to complete this survey, please contact Suzanne H. Plimpton of NSF at (703) 292-7556, or e-mail splimpto@nsf.gov.

The Web address for submitting your data:

http://www.herdsurvey.org/

Or mail this form to:

ICF 530 Gaither Road, Suite 500 Rockville, MD 20850

Questions?

Technical support:

Support@HERDsurvey.org (866) 936-9376

General survey questions:

Michael Gibbons National Center for Science and Engineering Statistics National Science Foundation mgibbons@nsf.gov (703) 292-4590

Thank you for your participation.

What's New for FY 2019

Changes to Questions

- Question 4 was reformatted to include a question asking whether your institution had a medical school in FY 2019.
 This replaces a single checkbox previously included in the instructions. This change was made to eliminate ambiguity in some responses. There were no other changes to instructions or content of this question.
- Question 5 was reformatted to include a question asking whether your institution conducted clinical trials in FY 2019.
 This replaces a single checkbox previously included in the instructions. This change was made to eliminate ambiguity in some responses. There were no other changes to instructions or content of this question.
- Question 13 was revised to clarify that the values for capitalization thresholds should be reported as dollars in thousands (e.g., 5 = \$5,000), like all expenditure values on the survey.

Survey Definitions and Instructions

This survey collects data on research and development (R&D) activities at higher education institutions. Please report R&D activities and expenditures for your institution's **2019** fiscal year.

Fiscal Year (FY)

Please report data for your institution's 2019 fiscal year.

Research and Development (R&D)

R&D activity is creative and systematic work undertaken in order to increase the stock of knowledge — including knowledge of humankind, culture, and society — and to devise new applications of available knowledge. R&D covers three activities defined below — basic research, applied research, and experimental development.

- **Basic research** is experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view.
- **Applied research** is original investigation undertaken in order to acquire new knowledge. It is directed primarily towards a specific, practical aim or objective.
- **Experimental development** is systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed to producing new products or processes or to improving existing products or processes.

R&D Expenditures

Include all expenditures for R&D activities from your institution's current operating funds that are separately accounted for. For purposes of this survey, R&D includes expenditures for organized research as defined by 2 CFR Part 200 Appendix III and expenditures from funds designated for research.

R&D includes:

- Sponsored research (federal and nonfederal)
- University research (institutional funds that are separately budgeted for individual R&D projects)
- Startup, bridge, or seed funding provided to researchers within your institution
- Other departmental funds designated for research
- Recovered and unrecovered indirect costs (see definitions in Question 1)
- Equipment purchased from R&D project accounts
- R&D funds passed through to a subrecipient organization, educational or other
- Clinical trials, Phases I, II, or III (see definition in Question 5)
- Research training grants funding work on organized research projects
- Tuition remission provided to students working on research

R&D does not include:

- Public service grants or outreach programs
- Curriculum development (unless included as part of an overall research project)
- R&D conducted by university faculty or staff at outside institutions that is not accounted for in your financial records
- Estimates of the proportion of time budgeted for instruction that is spent on research
- Capital projects (i.e., construction or renovation of research facilities)
- Non-research training grants
- Unrecovered indirect costs that exceed your institution's federally negotiated Facilities and Administrative (F&A) rate

Reporting Units						
Please <i>include</i> these components of your institution:	Please do <i>not</i> include:					
 All units of your institution included in or with your financial statements, such as: Agricultural experiment stations Branch campuses Medical schools Hospitals or clinics Research centers and facilities A university 501(c)3 foundation 	 Federally Funded R&D Centers (FFRDCs). This information is collected separately. See the list of FFRDCs: http://www.nsf.gov/statistics/ffrdc/. Other organizations or institutions, such as teaching hospitals or research institutes, with which your institution has an affiliation or relationship, but which are not components of your institution. Other campuses headed by their own president, chancellor, or equivalent within your university system. Each campus is asked to respond separately. 					

Question 1. How much of your total expenditures for research and development (R&D) came from the following sources in FY 2019? (See definition of R&D on the previous page.)

- In rows a, b, c, d, and f: Include both **direct** and **recovered indirect costs** (reimbursement of F&A costs from external sponsors).
- Report the **original source** of funds, when possible.
- Include all fields of R&D (e.g., sciences, engineering, humanities, education, law, arts).
 See full listing in Question 9.

So	urce of funds		expenditurrs in thousan	nds)
a.	U.S. federal government	(rer example)	, . opo. :	, , <u>_</u> uo
	Any agency of the United States government. Include federal funds passed through from another institution. Funds from FFRDCs should be treated as direct federal funding.	\$		
b.	State and local government			
	Any state, county, municipality, or other local government entity in the United Stat including state health agencies. Include state funds that support R&D at agricultur and other experiment stations.			
	Public institutions should report state appropriations restricted for R&D activities have rather than in row e, Institutional funds.	ere		
C.	Business	Φ.		
	Domestic or foreign for-profit organizations. Report funds from a company's nonprofit foundation in row d.	\$,		
d.	Nonprofit organizations			
	Domestic or foreign nonprofit foundations and organizations, except universities and colleges. Report funds from your institution's 501(c)3 foundation in row e1. Funds from other universities and colleges should be reported in row f.	\$,		
e.	Institutional funds			
	1. Institutionally financed research	•		
	All R&D funded by your institution from accounts that are only used for research. Exclude institution research administration and support (e.g., office of sponsored programs).	Ф (Confidential₁)		
	2. Cost sharing	ф		
	Include committed cost sharing other than unrecovered indirect costs.	\$ (Confidential ₁)		
	3. Unrecovered indirect costs			
	Calculate this amount as follows for your externally funded R&D only (preferably on a project-specific basis) using the appropriate cost rate—on-campus, off-campus, etc.	\$(Confidential ₁)		
	 First, multiply the <u>negotiated</u> rate by the corresponding base. Second, subtract recovered indirect costs. 			
	4. Total institutional funds ₂		\$ TOTAL	
f.	All other sources			
	Other sources not reported above, such as funds from foreign governments, foreign or U.S. universities, and gifts designated by the donors for research.	\$.		
g.	Total ₂		\$ TOTAL	
Infor	mation from confidential items is not published or released for individual institutions; only ag	gregate totals w	vill appear in	

Information from confidential items is not published or released for individual institutions; only aggregate totals will appear in publications. In accordance with the National Science Foundation Act of 1950, as amended, and other applicable federal laws, your responses will not be disclosed in identifiable form to anyone other than agency employees or authorized persons. Per the Federal Cybersecurity Enhancement Act of 2015, your data are protected from cybersecurity risks through screening of the federal information systems that transmit your data.

² Totals for rows e4 and g are automatically generated on the Web survey.

Quest	ion 1.1. Did you include the following types of funding in your responses to Ques	stion 1, row e1?
		Included
a.	Competitively awarded internal grants for research	
	Expenditures for organized research projects, involving a proposal or statement of work with expected research outcomes.	
b.	Startup packages/bridge funding/seed funding	
	Expenditures from funds provided to faculty members to begin or continue their research while seeking external sponsors.	
c.	Other departmental funds designated for research	
	Expenditures for research from other departmental or central accounts which do not match the descriptions provided in rows a or b.	
d.	Tuition assistance for student research personnel	
	University tuition assistance, waivers, or remission provided to students working on organized research. Please check "Included" even if these funds are reported as part of the expenditures included under rows a, b, or c.	

Question 2.		How much of the total R&D expenditures reported in Question 1, row g the following foreign sources?	, came from
		If you cannot break out expenditures for these categories, check here and enter total expenditures from foreign sources on row e.	
So	ource of fu	ınds	R&D expenditures (Dollars in thousands)
a.	All levels	government of foreign government, including national, regional, municipality, or other ternment.	\$
b.	company	s for-profit organizations. Projects sponsored by a U.S. location of a foreign are not considered foreign. Report funds from a company's nonprofit on in row c.	\$
C.	Foreign r	it organizations nonprofit foundations and organizations, except higher education institutions. om foreign universities should be reported in row d.	\$
d.	Higher e Foreign of institution	colleges and universities and units owned, operated, and controlled by such	\$
e.	Include in United N	r sources International governmental organizations located in the U.S., such as the ations, the World Bank, and the International Monetary Fund and all other sending funds to the U.S. from a location outside the U.S. and its territories.	\$
f.	Total₁		\$ TOTAL
1 The	column tota	al is automatically generated on the Web survey.	
Ques	tion 3.	Of the total R&D expenditures that were externally funded (all sources the institutional funds reported in Question 1, row e4), how much was under each of the following types of agreements?	
			R&D expenditures (Dollars in thousands)
a.	Contract	ts (including direct or prime contracts and subcontracts)	\$
	by your i	s are legal commitments in which a good or service is provided nstitution that benefits the sponsor. The sponsor specifies the bles and gains the rights to results.	Ψ
b.	Grants,	reimbursements, and all other agreements	\$
		all other agreements in which payments are received but no service other than periodic reporting is required in exchange.	Ψ
C.	Total ₁		\$ TOTAL
	(Total sh	ould match Question 1, row g minus Question 1, row e4)	Ψ 1321/31/
1 The	column tota	al is automatically generated on the Web survey.	

Quest	ion 4.								
A.	Did your institution have a medical school (that is, awards the MD or DO degree) in FY 2019?	a school that	Yes □ → No □ →	Go to Question 4B. Go to Question 5.					
В.	B. Of the total R&D expenditures reported in Question 1, row g, how much was expended for R&D projects in your medical school?								
	Include projects that are assigned to the medical school medical school.	of or to research	centers that are organ	nizationally part of the					
	R&D expenditures (Dollars in thousands)								
	Total R&D expenditures in the university's medical	school		\$					
Ques	stion 5.								
			Yes □→	Go to Question 5B.					
A.	Did your institution conduct any clinical trials in F	Y 2019?	No □→						
			No L	Go to Question 6.					
	Clinical trials are research studies designed to ar effects of drugs, vaccines, medical devices, tests, patients. Clinical trials are used to determine safet	treatments, and	other therapies for						
	For reference, the National Institutes of Health (NI into the following four phases.	H) categorizes h	uman clinical trials						
	Please include:								
	 Phase I uses a small group of human patients (20-identify side effects. Phase II uses a larger group (100–300) to test effects. 	•	_						
	 safety. Phase III uses a large group (1,000–3,000) to conferences, compare to commonly used treatments, ar 								
	Please exclude:								
	 Phase IV is a post-market study that collects more and optimal use. 	information on r	isks, benefits,						
В.	Of the total R&D expenditures reported in Question and Phase III clinical trials with human patients?	n 1, row g, how	much was expended	l for Phase I, Phase II,					
	R&D expenditures (Dollars in thousands)								
		(1) Federal	(2) Nonfederal	(3) Total₁					
	Human clinical trials	\$	\$	\$ TOTAL					
	Trials with human patients	·	-	ΨΙΟΙΛΙ					
1 The	The row total is automatically generated on the Web survey.								

Question 6. What amounts of your FY 2019 R&D expenditures were for basic research, applied research, and experimental development?

If possible, these categories defining the type of R&D should be coded at the individual project level by the principal investigator. Estimates are acceptable if necessary.

See the table below this question for examples.

		R&D expenditu (Dollars in thousa	
	(1) Federal	(2) Nonfederal	(3) Total₁
a. Basic research			
Experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view.	\$	\$	\$ TOTAL
b. Applied research			
Original investigation undertaken in order to acquire new knowledge. It is directed primarily towards a specific, practical aim or objective.	\$	\$	\$ TOTAL
c. Experimental development			
Systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed to producing new products or processes or to improving existing products or processes.	\$	\$	\$ TOTAL
d. Total₁	\$ TOTAL	\$ TOTAL	\$ TOTAL
Column 1 total should match Question 1, row a. Column 3 total should match Question 1, row g.	\$ LUIAL	\$ IOIAL	\$ IOIAL
1 Row and column totals are automatically generated on the Web su	ırvey.		

	Examples						
Basic research	Applied research	Experimental development					
A researcher is studying the properties of human blood to determine what affects coagulation.	A researcher is conducting research on how a new chicken pox vaccine affects blood coagulation.	A researcher is conducting clinical trials to test a newly developed chicken pox vaccine for young children.					
A researcher is studying the properties of molecules under various heat and cold conditions.	A researcher is investigating the properties of particular substances under various heat and cold conditions with the objective of finding longer-lasting components for highway pavement.	A researcher is working with state transportation officials to conduct tests of a newly developed highway pavement under various types of heat and cold conditions.					
A researcher is investigating the effect of different types of manipulatives on the way first graders learn mathematical strategy by changing manipulatives and then measuring what students have learned through standardized instruments.	A researcher is studying the implementation of a specific math curriculum to determine what teachers needed to know to implement the curriculum successfully.	A researcher is developing and testing software and support tools, based on fieldwork, to improve mathematics cognition for student special education.					

Question 7. How much of your R&D expenditures reported in Question 1 did your institution receive as a subrecipient?

Please report the original source of funds in columns (1) and (2) and the pass-through source in rows a–d.

Funds received directly from an FFRDC should be treated as direct federal funding and not included on this question.

The **subrecipient** for an award carries out the work but receives the funds from a pass-through entity rather than directly from the original funding source. Subrecipients tend to be the co-authors of publications, writers of technical reports discussing findings, inventors, etc. Do **not** include contractor or vendor relationships. A contractor or vendor receives payment for goods and services provided. See 2 CFR Part 200 Subpart D Section 330.

Examples:

- A university receives federal funds from another university as a subaward (Row a, column 1).
- A university receives federal funds from a company as a subaward (Row b, column 1).

Originating source of R&D expenditures (Dollars in thousands)

En	tity passing funds to your institution	(1) Federal	(2) Nonfederal	(3) Total₁
a.	U.S. higher education institutions Colleges and universities and units owned, operated, and controlled by such institutions	\$	\$	\$ TOTAL
b.	Businesses For-profit organizations	\$	\$	\$ TOTAL
C.	Nonprofit organizations Nonprofit foundations and organizations	\$	\$	\$ TOTAL
d.	Other State and local governments, foreign institutions including foreign universities/colleges, and others	\$	\$	\$ TOTAL
e.	Total ₁	\$ TOTAL	\$TOTAL	\$ TOTAL
1 Row	v and column totals are automatically generated on the Web	survey.		

Question 8. How much of the R&D expenditures reported in Question 1 did your institution pass through to subrecipients?

Please report the original source of funds in columns (1) and (2) and the entity receiving the funds in rows a–d.

Do **not** include contractor or vendor relationships. A contractor or vendor receives payment for goods and services provided. See 2 CFR Part 200 Subpart D Section 330.

Examples:

- Your institution passed through federal funds to another university (Row a, column 1).
- Your institution passed through funds from a company to another university (Row a, column 2).

Originating source of R&D expenditures (Dollars in thousands)

En	tity receiving funds from your institution	(1) Federal	(2) Nonfederal	(3) Total₁					
a.	U.S. higher education institutions Colleges and universities and units owned, operated, and controlled by such institutions	\$	\$	\$ TOTAL					
b.	Businesses For-profit organizations	\$	\$	\$ TOTAL					
c.	Nonprofit organizations Nonprofit foundations and organizations	\$	\$	\$ TOTAL					
d.	Other State and local governments, foreign institutions including foreign universities/colleges, and others	\$	\$	\$ TOTAL					
e.	Total ₁	\$ TOTAL	\$ TOTAL	\$ TOTAL					
1 Row	1 Row and column totals are automatically generated on the Web survey.								

Question 9A–B. What were your FY 2019 R&D expenditures in the computer and information sciences and engineering funded by the federal agency sources below? (R&D expenditures from nonfederal sources will be reported in Question 11.)

- Question 9 total (page 18, row K, column h) should match Question 1, row a.
- A list of federal departments, agencies and subagencies is included as a link on the web survey question.
- If an individual project involves more than one of the 40 fields of R&D, please prorate expenditures when possible and report the amount for each field involved.
- For subrecipient funding, report the agency that sponsored the original award.
- Funding from FFRDCs should be reported under the primary sponsoring agency for that center.

R&D expenditures from federal sources₁ (Dollars in thousands) (a) (b) (c) (d) (e) (f) (g) (h) **R&D Fields** HHS. (Examples listed below) **USDA** DoD Energy NASA **NSF** Other Total₂ includes NIH A. Computer and Information \$ TOTAL **Sciences** B. Engineering 1. Aerospace, Aeronautical, \$ TOTAL and Astronautical Engineering 2. Bioengineering and Biomedical \$ TOTAL Engineering 3. Chemical \$ TOTAL Engineering 4. Civil Engineering \$ TOTAL 5. Electrical, Electronic, and \$ TOTAL Communications Engineering 6. Industrial and Manufacturing \$ TOTAL Engineering 7. Mechanical Engineering \$ TOTAL 8. Metallurgical and Materials \$ TOTAL Engineering 9. Other Engineering \$ TOTAL 10. Total2

¹ Key: USDA, Department of Agriculture; DoD, Department of Defense; Energy, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NIH, National Institutes of Health; NSF, National Science Foundation. "Other" includes all other federal agencies.

² Row and column totals are automatically generated on the Web survey.

Examples of Disciplines: Computer and Information Sciences and Engineering Fields of R&D

A. Computer and Information Sciences

Artificial intelligence
Computer and information
technology administration and
management
Computer science

Computer software and media applications
Computer systems analysis
Computer systems networking and telecommunications

Data processing Information sciences, studies Information technology

B. Engineering

1. Aerospace, Aeronautical, and Astronautical Engineering

Aerodynamics Aerospace engineering Space technology

2. Bioengineering and Biomedical Engineering

Biological and biosystems engineering Biomaterials engineering Biomedical technology Medical engineering

3. Chemical Engineering

Biochemical engineering Chemical and biomolecular engineering Engineering chemistry Paper science Petroleum refining process Polymer, plastics engineering

4. Civil Engineering

Architectural engineering
Construction engineering
Engineering management,
administration
Environmental, environmental
health engineering
Geotechnical and
geoenvironmental engineering
Sanitary engineering
Structural engineering
Surveying engineering
Transportation and highway
engineering
Water resources engineering

5. Electrical, Electronic, and Communications Engineering

Communications engineering
Computer engineering
Computer hardware
engineering
Computer software engineering
Electrical and electronics
engineering
Laser and optical engineering
Power
Telecommunications

engineering

6. Industrial and Manufacturing Engineering

Industrial engineering Manufacturing engineering Operations research Systems engineering

7. Mechanical Engineering

Electromechanical engineering Mechatronics, robotics, and automation engineering

8. Metallurgical and Materials Engineering

Ceramic sciences and engineering
Geophysical, geological engineering
Materials engineering
Metallurgical engineering
Mining and mineral engineering
Textile sciences and engineering
Welding

9. Other Engineering

Agricultural engineering
Engineering design
Engineering mechanics,
physics, and science
Engineering physics
Engineering science
Forest engineering
Nanotechnology
Naval architecture and marine
engineering
Nuclear engineering
Ocean engineering
Petroleum engineering

Other engineering fields that cannot be classified using the fields listed above

				20 110 1 002 10 11				
Question 9C. What were your FY 2019 R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences funded by the federal agency sources below? (R&D expenditures from nonfederal sources will be reported in Question 11.)								
				nditures from (Dollars in thou		ırces1		
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
R&D Fields (Examples listed below)	ow) USDA	DoD	Energy	HHS, includes NIH	NASA	NSF	Other	Total ₂
C. Geosciences,	Atmospheric Sc	iences, and	Ocean Scie	nces				
Atmospheric Science and Meteorology	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
Geological as Earth Science	Α.	\$	\$	\$	\$	\$	\$	\$ TOTAL
 Ocean Scien and Marine Sciences 	s	\$	\$	\$	\$	\$	\$	\$ TOTAL
Other Geosciences Atmospheric Sciences, an	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL

\$ TOTAL

Examples of Disciplines: Geosciences, Atmospheric Sciences, and Ocean Sciences Fields of R&D

C. Geosciences, Atmospheric Sciences, and Ocean Sciences

1. Atmospheric Science and Meteorology

Ocean Sciences

5. Total2

Aeronomy Atmospheric chemistry and climatology

Atmospheric physics and dynamics

Extraterrestrial atmospheres Meteorology Solar

Weather modification

2. Geological and Earth Sciences

\$TOTAL \$TOTAL \$TOTAL

Earth and planetary sciences Geochemistry Geodesy and gravity Geology Geomagnetism Geophysics and seismology Hydrology and water resources Minerology and petrology Paleomagnetism Paleontology

Physical geography Stratigraphy and sedimentation

Surveying

3. Ocean Sciences and Marine Sciences

Biological oceanography
Geological oceanography
Marine biology
Marine oceanography
Marine sciences
Oceanography, chemical and
physical

4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences

\$TOTAL \$TOTAL \$TOTAL

Other fields that cannot be classified using the fields listed above

¹ **Key:** USDA, Department of Agriculture; DoD, Department of Defense; Energy, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NIH, National Institutes of Health; NSF, National Science Foundation. "Other" includes all other federal agencies.

² Row and column totals are automatically generated on the Web survey.

Question 9D. What were your FY 2019 R&D expenditures in the life sciences funded by the federal agency sources below? (R&D expenditures from nonfederal sources will be reported in Question 11.)

R&D expenditures from federal sources₁ (Dollars in thousands)

R&D Fields (Examples listed below)	(a) USDA	(b) DoD	(c) Energy	(d) HHS, includes NIH	(e) NASA	(f) NSF	(g) Other	(h) Total ₂
D. Life Sciences	002/1	505	Liloigy	includes will	1171071		ou.o.	i otaiz
Agricultural Sciences	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
Biological and Biomedical Sciences	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
3. Health Sciences	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
Natural Resources and Conservation	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
5. Other Life Sciences	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
6. Total ₂	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL

¹ Key: USDA, Department of Agriculture; DoD, Department of Defense; Energy, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NIH, National Institutes of Health; NSF, National Science Foundation. "Other" includes all other federal agencies.

Examples of Disciplines: Life Sciences Fields of R&D

D. Life Sciences

1. Agricultural Sciences

Agricultural business and management Agricultural chemistry Agricultural economics Agricultural engineering—report in Engineering Agricultural production operations Animal sciences Applied horticulture and horticultural business services Aquaculture Food science and technology International agriculture Plant sciences Soil sciences Wood science

2. Biological and Biomedical **Sciences**

Allergies and immunology Biochemistry, biophysics, and molecular biology Biogeography Biology and biomedical sciences, general

Biomathematics, bioinformatics, and computational biology Biotechnology Botany and plant biology Cell, cellular biology, and anatomical sciences Epidemiology, ecology and population biology Genetics Microbiological sciences and immunology Molecular medicine Neurobiology and neuroscience Pharmacology and toxicology Physiology, pathology and related sciences Zoology, animal biology

3. Health Sciences

Advanced, graduate dentistry and oral sciences Allied health and medical assisting services Bioethics, medical ethics Clinical medicine research Clinical/medical laboratory science/research and allied professions

sciences and services Dentistry Dietetics and clinical nutrition services Health and medical administrative services Health, medical preparatory programs Gerontology, health sciences Kinesiology and exercise science Medical clinical science, graduate medical studies Medical illustration and informatics Medicine Mental health Nursing Optometry Osteopathic medicine, osteopathy Pharmacy, pharmaceutical sciences, and administration Podiatric medicine, podiatry Public health Radiological science

Communication disorders

Registered nursing, nursing administration, nursing research and clinical nursing Rehabilitation and therapeutic professions Veterinary biomedical and clinical sciences Veterinary medicine Zoology

4. Natural Resources and Conservation

and management Forestry Natural resources conservation and research Natural resources economics Natural resources management

Fishing and fisheries sciences

Renewable natural resources Wildlife and wildlands science and management

5. Other Life Sciences

and policy

Other life sciences that cannot be classified using the fields listed above

Question 9 continues on next page.

² Row and column totals are automatically generated on the Web survey.

Question 9E–G. What were your FY 2019 R&D expenditures in mathematics and statistics, the physical sciences, and psychology funded by the federal agency sources below? (R&D expenditures from nonfederal sources will be reported in Question 11.)

R&D expenditures from federal sources₁ (Dollars in thousands)

	OD Fields	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	&D Fields xamples listed below)	USDA	DoD	Energy	HHS, includes NIH	NASA	NSF	Other	Total ₂
E.	Mathematics and Statistics	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
F.	Physical Sciences								
	Astronomy and Astrophysics	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
	2. Chemistry	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
	Materials Science	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
	4. Physics	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
	5. Other Physical Sciences	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
	6. Total ₂	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL
G.	Psychology	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL

¹ **Key:** USDA, Department of Agriculture; DoD, Department of Defense; Energy, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NIH, National Institutes of Health; NSF, National Science Foundation. "Other" includes all other federal agencies.

Examples of Disciplines: Mathematics and Statistics, Physical Sciences, and Psychology Fields of R&D

E. Mathematics and Statistics

Applied mathematics

Mathematics

Statistics

F. Physical Sciences

1. Astronomy and Astrophysics

Astronomy Astrophysics Planetary astronomy and science

2. Chemistry

(except Biochemistry—report in Biological and Biomedical Sciences)

Analytical chemistry
Chemical physics
Environmental chemistry
Forensic chemistry
Inorganic chemistry
Organic chemistry
Organo-metallic chemistry
Physical chemistry
Polymer chemistry
Theoretical chemistry

3. Materials Science

Materials chemistry Materials science

4. Physics

Acoustics
Atomic, molecular physics
Condensed matter and
materials physics
Elementary particle physics
Mathematical physics
Nuclear physics
Optics, optical sciences
Plasma, high-temperature
physics
Theoretical physics

5. Other Physical Sciences

Other physical sciences that cannot be classified using the fields listed above

G. Psychology

Clinical psychology

Counseling and applied psychology

Human development

Research and experimental psychology

² Row and column totals are automatically generated on the Web survey.

Question 9H-I.	What were your FY 2019 R&D expenditures in the social sciences and other sciences funded by
	the federal agency sources below? (R&D expenditures from nonfederal sources will be reported
	in Question 11.)

R&D expenditures from federal sources₁ (Dollars in thousands)

R&D Fields (Examples listed below)	(a) USDA	(b) DoD	(c) Energy	(d) HHS, includes NIH	(e)	(f) NSF	(g) Other	(h) Total ₂
H. Social Sciences								
1. Anthropology	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
2. Economics	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
Political Science and Government	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
Sociology, Demography, and Population Studies	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
5. Other Social Sciences	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
6. Total ₂	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL
I. Other Sciences	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL

¹ Key: USDA, Department of Agriculture; DoD, Department of Defense; Energy, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NIH, National Institutes of Health; NSF, National Science Foundation. "Other" includes all other federal agencies.

Examples of Disciplines: Social Sciences and Other Sciences Fields of R&D

H. Social Sciences

1. Anthropology

Cultural anthropology Medical anthropology Physical and biological anthropology

2. Economics

Applied economics
Business development
Development economics and
international development
Econometrics and quantitative
economics
Industrial economics
International economics
Labor economics
Managerial economics
Public finance and fiscal policy

3. Political Science and Government

Comparative government Government Legal systems Political economy Political science Political theory

4. Sociology, Demography, and Population Studies

Comparative and historical sociology
Complex organizations
Cultural and social structure
Demography and population studies
Group interactions
Rural sociology
Social problems and welfare theory
Sociology

5. Other Social Sciences

Archeology
Area, ethnic, cultural, gender, and group studies
Cartography
Criminal science and corrections
Criminology
Geography
Gerontology, social sciences
International relations and national security studies
Linguistics
Public policy analysis
Regional studies
Urban studies, affairs

I. Other Sciences

Use this category for R&D that involves at least one S&E field (rows A–H) if it is impossible to report multidisciplinary or interdisciplinary R&D expenditures in specific fields.

² Row and column totals are automatically generated on the Web survey.

Question 9J–K.	What were your FY 2019 R&D expenditures in the non-science and engineering (non-S&E) fields funded by the federal agency sources below? (R&D expenditures from nonfederal sources will be
	reported in Question 11.)

R&D expenditures from federal sources₁

		(Dollars in thousands)							
D 0.5	N Etable	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	Prields mples listed below)	USDA	DoD	Energy	HHS, includes NIH	NASA	NSF	Other	Total ₂
_	Non-S&E Fields 1. Business								
	Management and Business Administration	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
;	2. Communication and Communications Technologies	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
;	3. Education	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
	4. Humanities	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
;	5. Law	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
(6. Social Work	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
	7. Visual and Performing Arts	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
;	8. Other Non-S&E Fields	\$	\$	\$	\$	\$	\$	\$	\$ TOTAL
	9. Total ₂	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL
	Total for All	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL

Total for row K, column h should equal Total for Question 1, row a.

Fields of R&D₂

¹ **Key:** USDA, Department of Agriculture; DoD, Department of Defense; Energy, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NIH, National Institutes of Health; NSF, National Science Foundation. "Other" includes all other federal agencies.

² Row and column totals are automatically generated on the Web survey.

Examples of Disciplines: Non-S&E Fields of R&D

J. Non-S&E Fields

1. Business Management and Business Administration

Business administration Business management Business, managerial economics Management information systems and services Marketing management and research

2. Communication and Communications Technologies

Communication and media studies
Communications technologies
Journalism
Radio, television, and digital communication

3. Education

Education administration and supervision
Education research
Teacher education, specific levels and methods
Teaching fields

4. Humanities

English language and literature, letters
Foreign languages and literatures
History, including history and philosophy of science and technology
Humanities, general
Liberal arts and sciences
Philosophy and religious studies
Theology and religious vocations

5. Law

Law Legal studies

6. Social Work

(no specific examples)

7. Visual and Performing Arts

Drama, theatre arts and stagecraft Film, video, and photographic arts Fine and studio arts Music

8. Other Non-S&E Fields

Architecture
City, urban, community and regional planning

Family, consumer sciences and human sciences

Foods, nutrition, and wellness studies

Landscape architecture

Library science

Military technology and applied science

Parks, sports, recreation, leisure and fitness

Public administration and public affairs

Other non-S&E fields that cannot be classified using the fields listed above

Also, use this category for R&D that involves multiple non-S&E fields if it is impossible to report multidisciplinary or interdisciplinary R&D expenditures in specific fields.

Of the amount reported for Other federal sources in Question 9 (row K, column g), which agencies funded this R&D and how much of the reported amount was from Question 10. each agency?

If your institution reported \$0 in Question 9, row K, column g, skip this question and go to Question 11.

- Use rows a-j to list up to 10 agencies that funded the largest R&D expenditures.
- Use row k to report any remaining amount.
- For subrecipient funding in this question, list the sponsor of the original award.

Federa	web survey question. I agencies (list up to 10)	R&D expenditures (Dollars in thousands)
a.		\$
b.		\$
C.		\$
d.		\$
e.		\$
f.		\$
g.		\$
h.		\$
i.		\$
j.		\$
k.	Other agencies included in Question 9, column g, but not listed above	\$
l.	Total (should match Question 9, row K, column g)₁	\$ TOTAL

Question 11A–B. What were your FY 2019 R&D expenditures in the computer and information sciences and engineering fields funded by the nonfederal sources below?

- The totals in row K, page 24 should match the corresponding sources in Question 1, rows b–f.
- If an individual project involves more than one of the 40 fields of R&D, please prorate expenditures when possible and report the amount for each field involved.

R&D expenditures from nonfederal sources (Dollars in thousands)

			(201141011	i iliououiluo,		
R&D Fields	(a) State and local	(b)	(c) Nonprofit	(d) Institutional	(e) Other nonfederal	(f)
(See Question 9, p. 13)	government	Business	organizations	funds	sources	Total₁
A. Computer and Information Sciences	\$	\$	\$	\$	\$	\$ TOTAL
B. Engineering						
Aerospace, Aeronautical, and Astronautical Engineering	\$	\$	\$	\$	\$	\$ TOTAL
Bioengineering and Biomedical Engineering	\$	\$	\$	\$	\$	\$ TOTAL
3. Chemical Engineering	\$	\$	\$	\$	\$	\$ TOTAL
4. Civil Engineering	\$	\$	\$	\$	\$	\$ TOTAL
Electrical, Electronic, and Communications Engineering	\$	\$	\$	\$	\$	\$ TOTAL
Industrial and Manufacturing Engineering	\$	\$	\$	\$	\$	\$ TOTAL
7. Mechanical Engineering	\$	\$	\$	\$	\$	\$ TOTAL
Metallurgical and Materials Engineering	\$	\$	\$	\$	\$	\$ TOTAL
9. Other Engineering	\$	\$	\$	\$	\$	\$ TOTAL
10. Total ₁	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL
1 Row and column totals are automaticall	y generated on the	e Web survey.				

Examples of disciplines for the above fields of R&D are listed on page 13.

Question 11C-D. What were your FY 2019 R&D expenditures in the R&D fields listed below funded by the nonfederal sources below? R&D expenditures from nonfederal sources (Dollars in thousands) (b) (d) (f) (a) (c) (e) State and Other **Nonprofit** Institutional nonfederal **R&D Fields** local organizations (See Question 9, pp. 14-15) government **Business** funds sources Total₁ C. Geosciences, Atmospheric Sciences, and Ocean Sciences 1. Atmospheric Science and \$ TOTAL Meteorology 2. Geological and Earth Sciences \$ TOTAL 3. Ocean Sciences and Marine Sciences \$ TOTAL 4. Other Geosciences, Atmospheric Sciences, and \$ TOTAL Ocean Sciences \$ TOTAL \$ TOTAL \$ TOTAL \$ TOTAL \$ TOTAL \$ TOTAL 5. Total1 D. Life Sciences 1. Agricultural Sciences \$ TOTAL 2. Biological and Biomedical Sciences \$ TOTAL 3. Health Sciences \$ TOTAL 4. Natural Resources and Conservation \$ TOTAL 5. Other Life Sciences \$ TOTAL 6. Total1 \$ TOTAL \$ TOTAL \$ TOTAL \$ TOTAL \$ TOTAL \$ TOTAL

Examples of disciplines for the above fields of R&D are listed on pages 14-15.

1 Row and column totals are automatically generated on the Web survey.

INFORMATION ONLY - DO NOT USE TO REPORT Question 11E-I. What were your FY 2019 R&D expenditures in the R&D fields listed below funded by the nonfederal sources below? R&D expenditures from nonfederal sources (Dollars in thousands) (b) (d) (f) (a) (c) (e) State and Other Institutional **Nonprofit** nonfederal **R&D Fields** local organizations (See Question 9, pp. 16-17) government **Business** funds sources Total₁ \$ TOTAL E. Mathematics and Statistics F. Physical Sciences 1. Astronomy and Astrophysics \$ TOTAL 2. Chemistry \$ TOTAL 3. Materials Science \$ TOTAL 4. Physics \$ TOTAL 5. Other Physical Sciences \$ TOTAL 6. Total1 \$ TOTAL G. Psychology H. Social Sciences 1. Anthropology \$ TOTAL

	Row and column totals are automatically generated on the Web survey.					
Examples of disciplines for the above fields of R&D are listed on pages 16–17.						

\$ TOTAL

2. Economics

6. Total1

I. Other Sciences

3. Political Science and

5. Other Social Sciences

4. Sociology, Demography, and Population Studies

Government

\$ TOTAL

Question 11J–K. What were your FY 2019 R&D expenditures in the non-science and engineering (non-S&E) fields funded by the nonfederal sources below?

R&D expenditures from nonfederal sources (Dollars in thousands)

R&D Fields (See Question 9, p. 19)	(a) State and local government	(b)	(c) Nonprofit organizations	(d) Institutional funds	(e) Other nonfederal sources	(f)
	g		o.g		334.333	1000
J. Non-S&E Fields						
Business Management and Business Administration	\$	\$	\$	\$	\$	\$ TOTAL
Communication and Communications Technologies	\$	\$	\$	\$	\$	\$ TOTAL
3. Education	\$	\$	\$	\$	\$	\$ TOTAL
4. Humanities	\$	\$	\$	\$	\$	\$ TOTAL
5. Law	\$	\$	\$	\$	\$	\$ TOTAL
6. Social Work	\$	\$	\$	\$	\$	\$ TOTAL
7. Visual and Performing Arts	\$	\$	\$	\$	\$	\$ TOTAL
8. Other Non-S&E Fields	\$	\$	\$	\$	\$	\$ TOTAL
9. Total 1	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL
K. Total for All Fields of R&D ₁	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL	\$ TOTAL

1 Row and column totals are automatically generated on the Web survey.

Examples of disciplines for non-S&E fields of R&D are listed on page 19.

Totals in row K, columns a-e should match corresponding sources in Question 1, rows b-f.

Quest	tion 12.	Of the total amount of R&D expenditures reported in Question the amounts for the following types of costs?	1, row g, what we	ere
		 Please report only direct costs (including cost sharing) in row Recovered and unrecovered indirect costs should be reported 		
				R&D expenditures (Dollars in thousands)
a.	Include c	wages, and fringe benefits compensation for all R&D personnel whether full-time or part-time, by or permanent. Include salaries, wages, and fringe benefits paid in institution's funds and from external support.		\$
b.	All paym	e purchases ents for software. Include both purchases of software packages use fees for systems.		
		capitalized software		\$
		italized software (If you are unable to distinguish capitalized ware from capitalized equipment, report both in row c.)		\$
c.	Payment	ted equipment its for movable equipment exceeding your institution's capitalization it. Include ancillary costs such as delivery and setup.		\$
d.		oughs to other universities or organizations match the total in Question 8, row e, column 3)		\$
e.	Other cos (but not I	rect costs sts that do not fit into one of the above categories, including imited to) travel, tuition waivers, services such as consulting, r usage fees, and supplies.		\$
f.	Reim	costs overed indirect costs nbursement of Facilities and Administrative (F&A) costs external sponsors	\$ (Confidential ₁)	
		ecovered indirect costs uld equal Question 1, row e3)	\$(Confidential1)	
	3. Tota	l indirect costs ₂	(Gormachilan)	\$ TOTAL
g.	Total ₂ (should r	match total from Question 1, row g)		\$ TOTAL
In ac	cordance w	n confidential items is not published or released for individual institutions; or with the National Science Foundation Act of 1950, as amended, and other a didentifiable form to anyone other than agency employees or authorized pers	pplicable federal laws	, your responses will not

transmit your d	ata.
2 Totals are auto	matically generated on the Web survey.
Question 13.	At the end of FY 2019, what were your institution's capitalization thresholds for software and equipment?
	(Dollars in thousands)

Capitalization thresholds

Enhancement Act of 2015, your data are protected from cybersecurity risks through screening of the federal information systems that

(1) (2)
Software Equipment

25

Question 14A–C. For the R&D fields below, what portion of your FY 2019 R&D expenditures went for the purchase of capitalized R&D equipment?

• Question 14 total (row K, column c) should match Question 12, row c (Capitalized equipment).

R&D equipment expenditures (Dollars in thousands)

	D Fields	(a)	(b)	, (c)
(Se	ee Question 9, pp. 13–14)	Federal	Nonfederal	Total₁
A.	Computer and Information Sciences	\$	\$	\$ TOTAL
В.	Engineering			
	1. Aerospace, Aeronautical, and Astronautical Engineering	\$	\$	\$ TOTAL
	2. Bioengineering and Biomedical Engineering	\$	\$	\$ TOTAL
	3. Chemical Engineering	\$	\$	\$ TOTAL
	4. Civil Engineering	\$	\$	\$ TOTAL
	5. Electrical, Electronic, and Communications Engineering	\$	\$	\$ TOTAL
	6. Industrial and Manufacturing Engineering	\$	\$	\$ TOTAL
	7. Mechanical Engineering	\$	\$	\$ TOTAL
	8. Metallurgical and Materials Engineering	\$	\$	\$ TOTAL
	9. Other Engineering	\$	\$	\$ TOTAL
	10. Totalı	\$ TOTAL	\$ TOTAL	\$ TOTAL
C.	Geosciences, Atmospheric Sciences, and Ocean Sciences			
	1. Atmospheric Science and Meteorology	\$	\$	\$ TOTAL
	2. Geological and Earth Sciences	\$	\$	\$ TOTAL
	3. Ocean Sciences and Marine Sciences	\$	\$	\$ TOTAL
	 Other Geosciences, Atmospheric Sciences, and Ocean Sciences 	\$	\$	\$ TOTAL
	5. Total ₁	\$ TOTAL	\$ TOTAL	\$ TOTAL
1	Row and column totals are automatically generated on the Web survey			

Examples of disciplines for the above fields of R&D are listed on pages 13–14.

Question 14D-I. For the R&D fields below, what portion of your FY 2019 R&D expenditures went for the purchase of capitalized R&D equipment?

R&D equipment expenditures (Dollars in thousands)

			(Dollars in thousa	nds)
	&D Fields ee Question 9, pp. 15–17)	(a) Federal	(b) Nonfederal	(c) Total₁
	Life Sciences	i euciai	Nomeucial	i Otali
	1. Agricultural Sciences	\$	\$	\$ TOTAL
	2. Biological and Biomedical Sciences	\$	\$	\$ TOTAL
	3. Health Sciences	\$	\$	\$ TOTAL
	4. Natural Resources and Conservation	\$	\$	\$ TOTAL
	5. Other Life Sciences	\$	\$	\$ TOTAL
	6. Total ₁	\$ TOTAL	\$ TOTAL	\$ TOTAL
E.	Mathematics and Statistics	\$	\$	\$ TOTAL
F.	Physical Sciences			
	Astronomy and Astrophysics	\$	\$	\$ TOTAL
	2. Chemistry	\$	\$	\$ TOTAL
	3. Materials Science	\$	\$	\$ TOTAL
	4. Physics	\$	\$	\$ TOTAL
	5. Other Physical Sciences	\$	\$	\$ TOTAL
	6. Total ₁	\$ TOTAL	\$ TOTAL	\$ TOTAL
G.	Psychology	\$	\$	\$ TOTAL
Н.	Social Sciences			
	1. Anthropology	\$	\$	\$ TOTAL
	2. Economics	\$	\$	\$ TOTAL
	3. Political Science and Government	\$	\$	\$ TOTAL
	4. Sociology, Demography, and Population Studies	\$	\$	\$ TOTAL
	5. Other Social Sciences	\$	\$	\$ TOTAL
	6. Total ₁	\$ TOTAL	\$ TOTAL	\$ TOTAL
ı.	Other Sciences	\$	\$	\$ TOTAL
1	Row and column totals are automatically generated on the Web survey.			

Examples of disciplines for the above fields of R&D are listed on pages 15–17.

Question 14J–K. For the non-science and engineering (non-S&E) R&D fields below, what portion of your FY 2019 R&D expenditures went for the purchase of capitalized R&D equipment?

R&D equipment expenditures (Dollars in thousands) **R&D Fields** (a) (b) (c) (See Question 9, p. 19) **Federal** Nonfederal Total₁ J. Non-S&E Fields 1. Business Management and Business Administration \$ TOTAL 2. Communication and Communications Technologies \$ TOTAL 3. Education \$ TOTAL 4. Humanities \$ TOTAL 5. Law \$ TOTAL 6. Social Work \$ TOTAL 7. Visual and Performing Arts \$ TOTAL 8. Other Non-S&E Fields \$ TOTAL 9. Total1 \$ TOTAL \$ TOTAL \$ TOTAL K. Total for All Fields of R&D₁ \$ TOTAL \$ TOTAL \$ TOTAL Total for row K, column c, should match Question 12, row c (Capitalized equipment).

Examples of disciplines for non-S&E fields of R&D are listed on page 19.

1 Row and column totals are automatically generated on the Web survey.

Question 15. How many principal investigators and other personnel (headcount) were paid from the R&D salaries, wages, and fringe benefits you reported in Question 12, row a?

- A principal investigator (PI) is designated by your institution to direct the R&D project or program and be responsible for the scientific and technical direction of the project. Co-investigators (co-PIs) may be designated for this role and should also be included in column 1.
- Count each person only once.
- If a person serves as a PI or co-PI on one project and other personnel on another project, count that person as a PI.
- Include all personnel and students paid from R&D accounts regardless of how much they received.

,	(1) Principal investigators	(2) All other personnel	(3) Total ₁
Number of people (headcount)			TOTAL

1 The row total is automatically generated on the Web survey.

Question 16.	In what month did y	our institution's 2019 fiscal	year end?
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Primary Contact Information	Please complete the contact information for the person responsible for the survey.			
Name				
Job Title				
Institution name				
Office/Department				
Mailing address (line 1)				
Mailing address (line 2)				
City, state, and ZIP Code				
Phone number	E-mail address			
Other Contact Information. List individuals who should be copied on all e-mails about the survey or can create a login account. Job Title should include information about office/department as appropriate (e.g., VP of Sponsored Programs, Department of Finance Manager, Analyst II in Grants Management).				
Other Contact 1				
Name				
Job Title				
Phone Number	E-mail address			
Other Contact 2				
Name				
Job Title				
Phone Number	E-mail address			
Other Contact 3				
Name				
Job Title				
Phone Number	E-mail address			