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NATIONAL SCIENCE FOUNDATION

ALEXANDRIA. VA 22314

FFRDC RESEARCH AND DEVELOPMENT SURVEY FY 2017

Please submit your survey data by January 31, 2018.

This survey collects data on research and development (R&D) expenditures at Federally Funded R&D Centers (FFRDCs). Please report R&D activities and expenditures for your organization's 2017 fiscal year.

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

Wish to 292-7550, ON O Response to this survey is estimated to require 11 hours. If you wish to compension the time required to complete this survey, please contact Suzanne H. Plimpton of NSF at (703) 292-7556, or e-trail splimpto@nsf.gov.

The Web address for submitting your data:

http://www.ffrdcsurvey.org

Or mail this form to:

530 Gaither Road, Suite 500 Rockville, MD 20850

Questions?

Technical support:

Support@FFRDCsurvey.org (866) 936-9376

General survey questions:

Ronda Britt National Center for Science and Engineering Statistics National Science Foundation rbritt@nsf.gov (703) 292-7765

Thank you for your participation.

Survey Definitions and Instructions

Fiscal Year (FY)

Please report data for your organization's 2017 fiscal year.

Research and Development (R&D)

R&D 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

Please include all current operating expenditures for activities specifically organized to produce R&D outcomes. This includes basic research, applied research, and experimental development funded by external sponsors or separately budgeted and accounted for by your organization using internal funds.

R&D includes:	R&D does <i>not</i> include:	
 Sponsored research (including federal and nonfederal sponsors) Indirect costs associated with R&D projects R&D equipment and software R&D subcontract expenditures Clinical trials Research training grants 	 Outreach or training programs R&D conducted by staff at outside institutions that is not accounted for in your financial records Capital projects (i.e., construction or renovation of research facilities) Routine testing Non-R&D program implementation or management Policy development 	

Quest	ion 1.	How much of your total expenditures for separately budgeted research a development (R&D) came from the following sources in FY 2017? (See definition of R&D on the previous page.)	nd
		Report the original source of funds, when possible. For example, if you receiv federal funds from another organization, report that amount under "U.S. federa government."	
		Please do not report capital construction costs.	
Soi	urce of fu	nds (for ex	R&D expenditures (Dollars in thousands) xample, report \$25,342 as \$25)
a.	U.S. fede	ral government	
		cy of the United States government. ederal funds passed through from another organization.	\$
b.	State and	d local government	
		, county, municipality, or other local government entity in the United States, state health agencies.	\$
C.	Business	5	
		or foreign for-profit organizations. (Report funds from a company's foundation in row d.)	\$
d.	Nonprofi	t organizations	
		or foreign nonprofit foundations and organizations, except universities ges. Funds from other universities and colleges should be reported in row e.	\$
e.	All other	sources	
		urces not reported above, such as funds from foreign governments, gn or U.S. universities.	\$
f.	Total ¹		\$ TOTAL
¹ Colu	mn totals a	re automatically generated on the Web survey.	

Question 2.		Of the federally funded R&D expenditures reported in Question 1, row a, how much came from the following agencies?	
		Report the agency that was the original source of funds, when possible.	
		A list of the subagencies belonging to each department/agency shown below is included as a link on Question 2 of the web survey.	
Fu	nding age	ency	R&D expenditures (Dollars in thousands)
a.	Departn	nent of Defense	\$
b.	Departn	nent of Energy	\$
C.		nent of Health and Human Services ng the National Institutes of Health)	\$
d.	Departn	nent of Homeland Security	\$
e.	Departn	nent of Transportation	\$
f.	Nationa	Aeronautics and Space Administration	\$
g.	Nationa	Science Foundation	\$
h.	Other fe	deral agencies	\$
i.	Total ¹ (should i	match total from Question 1, row a)	\$ TOTAL
¹ Colu	ımn totals a	are automatically generated on the Web survey.	

Question 3. What amounts of your FY 2017 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 or project director. Estimates are acceptable if necessary.

See the table below this question for examples.

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

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 4. Of the total R&D expenditures reported in Question 1, what were the amounts for the following types of costs?				
		Please report only direct costs in rows a-e. Indirect costs should be reported	in row f.	
			R&D expenditures (Dollars in thousands)	
Dir	ect costs	from all sources		
a.		wages, and fringe benefits		
	temporar	ompensation for all R&D personnel whether full-time or part-time, y or permanent. Include salaries, wages, and fringe benefits paid renal funds and from external support.	\$	
b.	Software	purchases		
		ents for software. Include both purchases of software packages se fees for systems.	\$	
c.	Equipme	nt		
	Payments	s for movable equipment. Include ancillary costs such as delivery and setup.	\$	
d.	Subcont	racts		
		s to subcontractors or subrecipients for services on R&D projects.	\$	
e.	Other dir	ect costs		
		ets that do not fit into one of the above categories, including mited to) travel, computer usage fees, and supplies.	\$	
Inc	lirect cost	s		
f.	Indirect			
	Include a	ll indirect costs (overhead) associated with R&D projects.	\$	
g.	Total ¹			
	(should m	natch total from Question 1, row f)	\$ TOTAL	
¹ Colu	ımn totals a	re automatically generated on the Web survey.		
Question 5. What was the total executed operating budget of your FFRDC in FY 2017, excluding capital construction costs?				
			(Dollars in thousands)	
	Total ope	erating budget	\$	

Question 6.			
a. Contact information: Please complete the contact information for the person responsible for the survey and an alternate contact.			
un	Primary contact	Alternate contact	
	Filliary Collact	Alternate contact	
Name			
Title			
Organization name			
Mailing address (line 1)			
Mailing address (line 2)			
City, state, and ZIP code			
Phone number			
E-mail address			
b. Fiscal year: In what month did your organization's 2017 fiscal year end?			
c. Additional comments:			