

# FY 2014 and FY 2015 Survey of State Government R&D



## **Reference Copy Only**

Submit your survey responses at:

https://respond.census.gov/sgrd

## **Survey Questions**

(Click here)

**pages 2-11** 

The purpose of this survey is to measure your state's contributions toward scientific and technological advances. The results of this survey will be used to estimate national totals for R&D in conjunction with other data collected by the National Science Foundation from private industry, academic institutions, and the federal government.

The Survey of State Government R&D is conducted by the National Science Foundation with the Department of Commerce, U.S. Census Bureau as the collection agent. Your participation is voluntary.

If you have any questions, please contact:
Lisa McNelis
U.S. Census Bureau
1-888-340-7525
erd.sqrd@census.gov

Burden Statement OMB: 0607-0933 Exp: 05/31/2016

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless such collection displays a valid Office of Management and Budget (OMB) control number. The OMB Control number for this survey is displayed at above.

The Time required to complete these responses is estimated to be approximately 90 minutes for the state coordinator and 4 hours for agency respondents.

The burden on state coordinators includes the initial identification of department and agency contacts, monitoring of department and agency responses, and final review and verification of state data

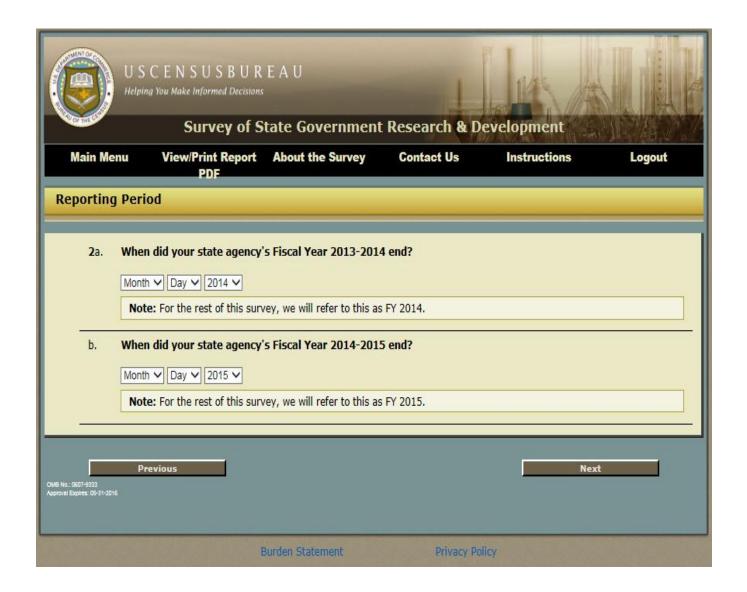
The burden on agency respondents includes the initial collection of data and the entry of data into the Web application.

Send comments about this burden estimate or any other aspect of this collection of information, including suggestions for reducing burden to:

Paperwork Project 0607-0933 U.S. Census Bureau 4700 Silver Hill Road, Stop 1500 Washington, DC 20233-1500

You may e-mail comments to Paperwork@census.gov; use "Paperwork Project 0607-0933" as the subject.

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Your Name:*					
Title:*					
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### Survey of State Government Research & Development

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Instructions

### **R&D Activities**

Research and development (R&D) is creative work conducted systematically to extend scientific knowledge, or devise new applications, which may include materials, products, devices, processes, systems, methods, or services.

- R&D is a new way of thinking about a problem
- It has not been done before
   It may produce findings that could be published in academic journals
   It includes ideas that could be patented
- R&D increases our knowledge of the subject

- R&D increases our knowledge of the subject.
  Helps create new products or applications
  R&D creates solutions that others may find useful
  Findings can be generalized to other situations and locations
  R&D outcomes are uncertain (because it.s never been done before)
  Solutions are not always obvious or expected

### What is NOT R&D

- Construction and acquisition of land and facilities used primarily for R&D (this is reported separately in Question 11)
   Fixed equipment used primarily for R&D
   Program planning and evaluation
   Program planning and evaluation
   Business development services for new companies
   Commercialization (includes promoting/producing the products/services from R&D projects)
   Economic/policy/feasibility studies
   General patient services
   Information systems
   Management studies
   Marketing of products/services
   Marketing of products/services
   Market research or analysis
   Routine data collection/dissemination
   Routine monitoring/testing
   Strategic planning
   Technology transfer

Examples of R&D				
What makes it R&D?	When it is R&D	When it is NOT R&D		
R&D is novel.  It increases our knowledge of the subject. It hasn't been done before.	You are testing blood samples as part of a research project to find out the side effects of a new cancer treatment.	You are collecting information from samples of patients to estimate the incidence of chicken pox in the state's population. (You are using a standard approach to estimate the spread of chicken pox.)		
R&D creates solutions useful to others.  • Others might benefit from the findings. • The findings can be generalized to other situations and locations.	You are testing a pavement on your highways that is currently used only at airports. Other states will want the results.	You are testing pavement on your state's highways estimate how much you need to budget for paveme replacement over the next five years. (Other states will not benefit from your specific state information		
The outcome of R&D is uncertain.  • The solution isn't obvious to an expert in that field.	Your research involves monitoring streams to determine whether a new program is increasing the population of a particular type of fish.	You are monitoring streams as part of plan to implement long-term monitoring for a particular typo of fish. (The monitoring plan has already been tester and you are certain of the quality of the plan.)		

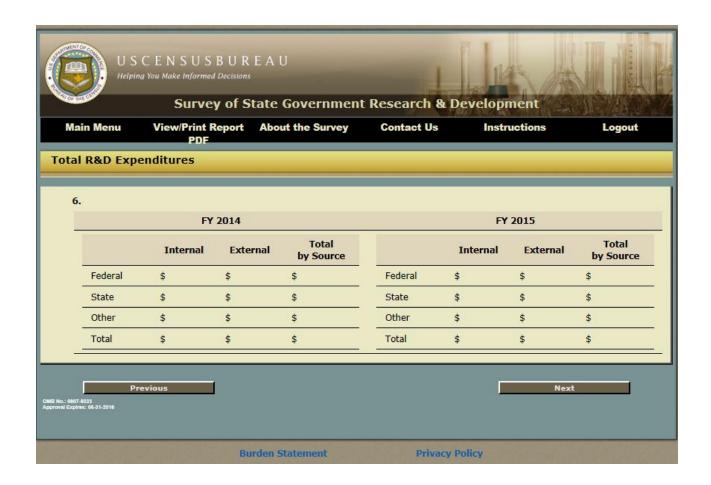
Reporting unit
The reporting unit is your department, agency, commission, public authority (herein referred to as agency) including all divisions and offices regardless of location that either perform or fund R&D.

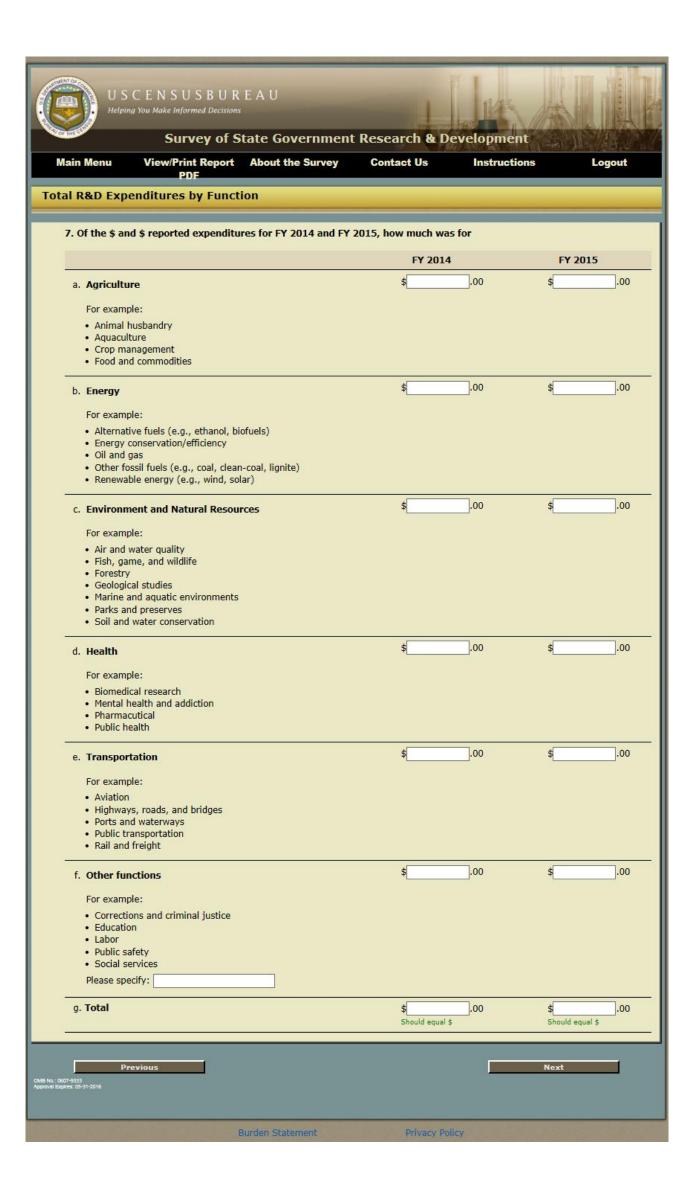
Estimates are acceptable

Please report all iten	ns to the best of your ability.				
Examples of classifying R&D from four activities					
Activity	It IS R&D	It is NOT R&D			
Technical assistance	You hire a technical consultant to test the disease resistance for the new fish species you are developing. (The assistance addresses the uncertainty of the science/technology aspects of the product or service.)	You hire a technical consultant to help you design the graphic design for the package to ship your new fish species when you begin offering it for sale to other states. (The assistance addresses the uncertainty of the marketing/production aspects of the product or service.)			
Help for new businesses	You provide funding to new businesses to help them with the costs of building prototypes of products they are developing.	You provide funding for new technology companies to help them acquire basic skills to market their new products.			
Consulting	You use a consultant to plan testing of a highway pavement material that your transportation research center is trying to develop.	You use a consultant to help you secure health and safety approval for your new pavement material.			
Developing a product from your research	You hire a university research center to test a new type of grass you developed to test whether it will survive actual conditions along the coastline.	You hire a law firm to help you with the process for patenting the new grass that you developed.			

# 3. Did your agency do any of the following during FY 2014 or FY2015? a. Had a division, branch or office devoted to research and development b. Performed R&D activities using agency staff O Yes c. Funded research or development at another state or local government O No d. Funded universities or other nonprofit organizations to perform research or development activities e. Funded companies or individuals to perform research or development activities ○ Yes ○ No f. Performed or funded other research or development activities not specified above (250 chars max) ○ No

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## Funds Received from Federal Agencies for R&D

8. Of the O reported expenditures from federal funds, what amount came from the following agencies? Please add any agencies not already listed. If none, please report \$0.

Federal Agency	FY 2014	FY 2015
Department of Agriculture	\$00	\$00
Department of Commerce	\$00	\$.00
Department of Defense	\$.00	\$.00
Department of Education	\$ .00	\$.00
Department of Energy	\$.00	\$.00
Department of Health and Human Services	\$.00	\$.00
Department of Homeland Security	\$.00	\$.00
Department of Housing and Urban Development	\$.00	\$.00
Department of Interior	\$.00	\$.00
Department of Justice	\$.00	\$.00
Department of Labor	\$00	\$.00
Department of State	\$.00	\$.00
Department of Transportation	\$.00	\$00
Department of the Treasury	\$.00	\$.00
Department of Veteran Affairs	\$.00	\$00
Environmental Protection Agency	\$.00	\$.00
National Aeronautics and Space Administration	\$.00	\$.00
National Science Foundation	\$.00	\$.00
Other, please specify: (250 chars. max.)	\$00	\$00
TOTAL	\$ .00	\$ .00
	Should equal \$	Should equal \$

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### FY 2015 Expenditures for R&D Performed Internally by Type of Work

9. What amount of your \$ reported FY 2015 non-federal <u>internal</u> R&D expenditures and \$ reported FY 2015 federal <u>internal</u> R&D expenditures in Question 4 were for basic research, applied research, and experimental development, from federal and non-federal sources? (Please use your best estimate.)

	FY 2014		FY 2015	
	Federal Funds	Non-federal Funds	Federal Funds	Non-federal Funds
a. Basic research	\$ n/a .00	\$ n/a .00	\$00	\$00
Research undertaken primarily to acquire new knowledge without any particular application or use in mind. (See below for examples of Basic Research)				
b. Applied research	\$ n/a .00	\$ n/a .00	\$00	\$00
Research conducted to gain the knowledge or understanding to meet a specific, recognized need. (See below for examples of Applied Research)				
c. Experimental Development	\$ n/a .00	\$ n/a .00	\$00	\$00
The systematic use of the knowledge or understanding gained from research directed towards the production of useful materials, devices, systems, or methods, including the design and development of prototypes and processes. (See below for examples of Experimental Development)				
d. TOTAL	\$ n/a .00	\$ n/a .00	\$00 Should equal \$	\$00 Should equal \$

	Examples	
Basic Research	Applied Research	Experimental Development
You are studying the properties of blood to determine what affects coagulation.	You are conducting research on how a new chicken pox vaccine affects blood coagulation.	You are testing a newly developed chicken pox vaccine with various ages of school children before implementing it statewide.
You are studying the properties of molecules under various heat and cold conditions.	You are conducting research on the properties of particular substances under various heat and cold conditions with the objective of finding longer lasting components for pavement.	You are testing a newly developed pavement under various types of heat and cold conditions prior to using it or your state's highways.
You are studying the heart chambers of various fish species.	You are examining various levels of a toxic substance to determine the maximum safe level for fish in a stream.	You are designing a new system for monitoring a stream that will try out the results of your recent research in real world situation.
You are studying the effects of various strategies for teaching math in order to understand which is the most effective.	You are studying the implementation of a specific math curriculum to determine what factors lead to successful implementation by teachers.	You are using research in the field to develop education software and support tools for math curriculum.
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oenditures fo		Externally by Type	of Entity		
10. Of the reper	tad autamal DSD ave	enditures for FY 2014 a	nd EV 2015 in Overti	an E how much w	ar to
10. Of the repor	ted external Raw exp	enditures for FT 2014 a	FY 20		FY 2015
a. Higher-ed	ucation institutions?		\$	.00	\$0
b. Businesse	s or individuals?		\$	.00	\$0
c. Other enti	ties?		\$	.00	\$
For exam	ple: te governments				
<ul> <li>Local gov</li> </ul>					
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