APPENDIX TABLE 4-23 III

Federal obligations for R&D and R&D plant, by agency, performer, and type of work: FY 2015

(Millions of current dollars)

						Extramural	performers			
Agency	All federal	Federal	Business		ı	United States a	nd U.S. territo	ries		
	obligations	intramural ^a	firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreign
Total R&D and R&D plant										
All agencies	131,398.2	36,342.2	47,730.8	4,037.5	27,706.9	4,288.1	6,287.5	3,482.0	487.1	1,036.1
Department of Agriculture	2,352.0	1,517.7	38.1	0.0	758.2	0.0	25.7	0.0	8.7	3.6
Department of Commerce	1,519.4	1,131.4	61.7	0.0	269.5	3.4	30.8	6.2	15.0	1.4
Department of Defense	61,683.0	20,327.3	35,860.9	336.4	2,429.1	337.4	521.3	1,240.3	7.9	622.5
Department of Education	251.3	10.7	6.4	0.0	178.1	0.0	56.1	0.0	0.0	0.0
Department of Energy	12,343.0	1,072.9	2,274.0	3,234.7	1,167.6	2,316.7	239.0	2,016.1	20.1	1.9
Department of Health and Human Services	30,425.5	6,789.6	1,519.0	421.7	16,875.4	21.7	4,320.9	25.1	186.0	266.2
Department of Homeland Security	1,645.2	1,247.1	190.7	30.0	71.0	8.3	5.0	81.8	0.0	11.2
Department of the	808.7	692.2	25.6	0.0	59.2	0.0	5.3	0.0	26.0	0.2

						Extramural	performers			
Agency	All federal	Federal	ь		ı	United States a	nd U.S. territo	ries		
S,	obligations	intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreig
Department of Justice	149.7	20.4	15.8	0.0	54.6	0.0	45.5	0.0	13.4	С
Department of Transportation	884.5	231.1	266.2	0.2	80.4	0.0	48.1	67.2	190.4	C
Department of Veterans Affairs	661.6	661.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(
Agency for International Development	212.2	10.9	32.2	0.0	50.0	0.0	34.2	0.0	0.0	84
Environmental Protection Agency	520.7	260.7	190.8	0.5	68.0	0.6	0.0	0.1	0.0	(
National Aeronautics and Space Administration	11,413.1	1,831.6	6,784.2	1.0	979.9	1,375.5	399.0	21.6	3.8	1
National Science Foundation	5,989.7	115.9	412.4	0.0	4,655.0	220.5	542.9	5.1	15.8	2:
Smithsonian Institution	229.0	229.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(
All other agencies	309.7	192.2	52.9	13.1	10.9	3.9	13.5	18.6	0.0	
2&D										
All agencies	128,573.2	34,925.1	47,455.2	3,935.8	27,414.7	3,911.7	6,136.2	3,271.4	487.0	1,036

						Extramural	performers			
gency	All federal	Federal	Dusinasa		ι	United States a	nd U.S. territor	ies		
	obligations	intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreig
Department of Agriculture	2,341.0	1,506.7	38.1	0.0	758.2	0.0	25.7	0.0	8.7	3
Department of Commerce	1,331.3	994.6	61.7	0.0	218.3	3.4	30.8	6.2	15.0	1
Department of Defense	61,513.5	20,179.8	35,838.9	336.4	2,429.1	337.4	521.3	1,240.3	7.9	622
Department of Education	251.3	10.7	6.4	0.0	178.1	0.0	56.1	0.0	0.0	(
Department of Energy	11,391.0	1,071.7	2,088.6	3,133.0	1,077.6	1,953.7	239.0	1,805.5	20.1	
Department of Health and Human Services	30,272.1	6,644.2	1,519.0	421.7	16,868.7	21.7	4,319.6	25.1	186.0	266
Department of Homeland Security	742.2	344.9	190.1	30.0	71.0	8.3	5.0	81.8	0.0	1
Department of the Interior	800.1	691.8	17.4	0.0	59.2	0.0	5.3	0.0	26.0	
Department of Justice	149.7	20.4	15.8	0.0	54.6	0.0	45.5	0.0	13.4	
Department of Transportation	855.6	231.1	237.8	0.2	80.4	0.0	47.6	67.2	190.4	
Department of Veterans Affairs	661.6	661.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

						Extramural	performers			
Agency	All federal	Federal	Business		ı	Jnited States a	nd U.S. territor	ries		
	obligations	intramural ^a	firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreig
Agency for International Development	212.2	10.9	32.2	0.0	50.0	0.0	34.2	0.0	0.0	84.
Environmental Protection Agency	515.6	260.7	185.6	0.5	68.0	0.6	0.0	0.1	0.0	0.
National Aeronautics and Space Administration	11,360.7	1,818.3	6,758.4	1.0	979.9	1,362.3	399.0	21.6	3.8	16
National Science Foundation	5,669.7	89.8	412.3	0.0	4,510.7	220.5	393.5	5.1	15.8	22
Smithsonian Institution	195.7	195.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
All other agencies	309.7	192.2	52.9	13.1	10.9	3.9	13.5	18.6	0.0	4
Basic research										
All agencies	31,527.1	5,813.7	2,536.5	507.0	15,295.5	2,920.5	2,985.7	1,200.2	61.2	206
Department of Agriculture	924.5	635.4	0.0	0.0	274.7	0.0	11.0	0.0	1.6	1
Department of Commerce	232,4	192.3	12.0	0.0	24.7	0.0	3.1	0.0	0.0	C
Department of Defense	2,133.4	464.5	383.1	7.4	1,055.8	3.9	163.3	5.3	1.3	48

						Extramural	performers			
gency	All federal	Federal	Ducinosa		ı	United States a	nd U.S. territor	ries		
55	obligations	intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreig
Department of Education	22.4	1.1	0.2	0.0	16.7	0.0	4.4	0.0	0.0	0
Department of Energy	4,460.4	284.4	247.3	279.1	723.3	1,728.6	30.2	1,165.9	0.0	1
Department of Health and Human Services	15,076.9	3,213.2	682.9	219.3	8,582.2	10.6	2,191.6	10.6	41.0	125
Department of Homeland Security	11.7	0.0	0.6	0.4	10.6	0.0	0.1	0.0	0.0	(
Department of the Interior	53.3	48.9	0.1	0.0	3.6	0.0	0.2	0.0	0.5	
Department of Justice	5.3	1.4	0.0	0.0	3.8	0.0	0.1	0.0	0.0	
Department of Transportation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Veterans Affairs	227.2	227.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Agency for International Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Environmental Protection Agency	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

						Extramural	performers				
gency	All federal	Federal	Business	United States and U.S. territories							
	obligations	intramural ^a	firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreig	
National Aeronautics and Space Administration	3,209.7	460.1	942.4	0.9	558.9	956.8	268.0	13.2	2.2	7.	
National Science Foundation	4,973.9	89.4	267.9	0.0	4,041.2	220.5	313.6	5.1	14.6	21.	
Smithsonian Institution	195.7	195.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	
All other agencies	0.2	0.2	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	0	
pplied research	1				,	1	'				
All agencies	32,118.2	9,192.8	5,573.8	2,591.0	10,666.6	306.3	2,724.9	416.7	359.1	287	
Department of Agriculture	1,203.9	673.8	38.1	0.0	470.6	0.0	12.8	0.0	7.0	1	
Department of Commerce	921.5	653.7	44.2	0.0	177.8	1.3	24.1	6.2	13.2	1	
Department of Defense	4,558.1	1,696.0	2,022.0	58.4	506.7	72.3	130.5	31.3	0.6	40	
Department of Education	137.4	6.0	2.4	0.0	102.0	0.0	26.9	0.0	0.0	C	
Department of Energy	4,181.1	569.9	527.6	2,295.9	193.1	113.7	146.6	326.5	7.5	(
Department of Health and Human Services	15,119.9	3,400.7	832.6	202.4	8,261.2	11.0	2,116.0	14.4	140.7	140	

						Extramural	performers			
gency	All federal	Federal	Dusinasa		ι	Jnited States a	nd U.S. territor	ies		
	obligations	intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreig
Department of Homeland Security	205.1	93.9	28.2	20.5	39.9	2.0	4.1	13.7	0.0	2
Department of the Interior	627.0	540.9	14.5	0.0	44.9	0.0	4.4	0.0	22.0	(
Department of Justice	123.0	4.4	15.8	0.0	50.7	0.0	45.4	0.0	6.7	(
Department of Transportation	662.6	193.9	194.3	0.1	72.5	0.0	39.2	3.3	158.6	(
Department of Veterans Affairs	416.3	416.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Agency for International Development	212.2	10.9	32.2	0.0	50.0	0.0	34.2	0.0	0.0	8
Environmental Protection Agency	440.4	222.7	148.5	0.5	68.0	0.6	0.0	0.1	0.0	
National Aeronautics and Space Administration	2,329.7	530.0	1,486.4	0.0	148.9	101.6	49.3	2.6	1.6	
National Science Foundation	695.8	0.5	144.4	0.0	469.5	0.0	79.9	0.0	1.2	(
Smithsonian Institution	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(

						Extramural	performers			
Agency	All federal	Federal	D		ı	Jnited States a	nd U.S. territor	ries		
	obligations	intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreig
All other agencies	284.2	179.1	42.7	13.1	10.9	3.9	11.3	18.6	0.0	4.
Development			'		,		,			
All agencies	64,927.8	19,918.5	39,344.9	837.8	1,452.6	684.9	425.6	1,654.5	66.7	542.
Department of Agriculture	212.7	197.5	0.0	0.0	13.0	0.0	1.8	0.0	0.0	0.
Department of Commerce	177.4	148.5	5.5	0.0	15.8	2.1	3.6	0.0	1.8	0
Department of Defense	54,822.1	18,019.3	33,433.8	270.7	866.6	261.2	227.4	1,203.7	6.0	533
Department of Education	91.6	3.5	3.8	0.0	59.5	0.0	24.8	0.0	0.0	0
Department of Energy	2,749.5	217.4	1,313.7	557.9	161.2	111.4	62.2	313.1	12.6	0
Department of Health and Human Services	75.4	30.3	3.6	0.0	25.3	0.0	11.9	0.0	4.3	0
Department of Homeland Security	525.4	251.0	161.2	9.1	20.5	6.4	0.8	68.1	0.0	8
Department of the Interior	119.7	102.0	2.8	0.0	10.8	0.0	0.7	0.0	3.5	(
Department of Justice	21.3	14.6	0.0	0.0	0.0	0.0	0.0	0.0	6.7	C

						Extramural	performers			
Agency	All federal	Federal	Business		ı	Jnited States a	nd U.S. territor	ies		
	obligations	intramural ^a	firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreig
Department of Transportation	192.9	37.1	43.5	0.0	7.9	0.0	8.4	63.9	31.8	C
Department of Veterans Affairs	18.1	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C
Agency for International Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C
Environmental Protection Agency	75.2	38.0	37.2	0.0	0.0	0.0	0.0	0.0	0.0	(
National Aeronautics and Space Administration	5,821.3	828.2	4,329.6	0.1	272.0	303.9	81.7	5.8	0.0	(
National Science Foundation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(
Smithsonian Institution	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(
All other agencies	25.3	12.9	10.3	0.0	0.0	0.0	2.2	0.0	0.0	-(
&D plant	'	,	1		,	,	'			
All agencies	2,825.1	1,417.2	275.6	101.7	292.2	376.3	151.3	210.6	0.0	
Department of Agriculture	10.9	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

						Extramural	performers			
gency	All federal	Federal	Desciones		ı	United States a	nd U.S. territor	ries		
0	obligations	intramural ^a	Business firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreig
Department of Commerce	188.1	136.9	0.0	0.0	51.2	0.0	0.0	0.0	0.0	(
Department of Defense	169.5	147.5	22.0	0.0	0.0	0.0	0.0	0.0	0.0	(
Department of Education	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Energy	952.0	1.2	185.4	101.7	90.0	363.1	0.0	210.6	0.0	
Department of Health and Human Services	153.4	145.4	0.0	0.0	6.7	0.0	1.3	0.0	0.0	
Department of Homeland Security	902.9	902.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	
Department of the Interior	8.6	0.4	8.2	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Justice	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Department of Transportation	28.9	0.0	28.4	0.0	0.0	0.0	0.5	0.0	0.0	
Department of Veterans Affairs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Agency for International Development	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

						Extramural	performers					
Agency	All federal	Federal	Business	United States and U.S. territories								
	obligations	intramural ^a	firms	Industry FFRDCs	Universities and colleges	University FFRDCs	Other nonprofits	Nonprofit FFRDCs	State and local governments	Foreign		
Environmental Protection Agency	5.1	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
National Aeronautics and Space Administration	52.4	13.3	25.8	0.0	0.0	13.3	0.0	0.0	0.0	0.0		
National Science Foundation	320.0	26.1	0.1	0.0	144.3	0.0	149.5	0.0	0.0	0.1		
Smithsonian Institution	33.2	33.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
All other agencies	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

FFRDC = federally funded research and development center.

Note(s)

Detail may not add to total because of rounding. Agencies included have total annual R&D obligations of \$100 million or more. All other agencies include Department of Housing and Urban Development, Department of Labor, Department of State, Department of the Treasury, Appalachian Regional Commission, Consumer Product Safety Commission, Federal Communications Commission, Federal Trade Commission, Library of Congress, National Archives and Records Administration, Nuclear Regulatory Commission, and Social Security Administration.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FY 2015.

Science and Engineering Indicators 2018

^a Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.