

Table RD-11

## Funds spent for business R&amp;D performed in the United States, by source of funds: 2010–19

(Millions of dollars and percent share)

Sector	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Millions of dollars										
U.S. total R&D	406,600	426,215	433,716	454,271	475,969	494,499	521,700	554,012	604,837	666,875
All business R&D <sup>a</sup>	278,977	294,093	302,250	322,528	340,728	355,821	374,685	400,100	441,036	492,956
Paid for by the company	221,706	238,768	247,280	264,913	282,570	296,677	317,731	339,036	377,806	428,968
From company-owned, U.S.-located units	218,187	235,426	242,674	259,908	277,272	289,892	306,611	319,796	354,291	401,851
From foreign-located subsidiaries	3,519	3,342	4,606	5,005	5,298	6,785	11,120	19,240	23,515	27,117
Paid for by others	57,271	55,324	54,970	57,615	58,158	59,144	56,954	61,065	63,230	63,989
Federal	34,199	31,309	30,621	29,362	26,554	26,990	23,772	24,277	24,685	21,941
Domestically located companies	11,013	11,124	11,624	13,450	13,227	14,595	14,239	17,494	19,087	21,461
Foreign-located companies	11,015	12,007	12,093	13,791	17,246	16,317	17,692	18,404	18,333	19,554
Foreign parent <sup>b</sup>	7,102	7,438	8,486	10,445	13,407	12,579	14,766	15,426	15,775	17,563
Unaffiliated companies	3,913	4,569	3,607	3,346	3,839	3,738	2,926	2,978	2,558	1,991
All other organizations <sup>c</sup>	1,046	882	633	1,013	1,131	1,242	1,249	890	1,125	932-1,141
In the United States	935	690	491	456	661	616	1,149	712	535	774-958
Outside the United States	111	192	142	557	470	626	100	178	590	158-183
<i>Addenda:</i>										
Funded by domestically located sources <sup>d</sup>	264,334	278,549	285,410	303,176	317,714	332,093	345,771	362,279	398,598	446,116
Funded by foreign-located sources <sup>e</sup>	14,644	15,543	16,841	19,353	23,013	23,729	28,912	37,822	42,438	46,840
Source of funds as a percentage of all business R&D										
All business R&D	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Paid for by the company	79.5	81.2	81.8	82.1	82.9	83.4	84.8	84.7	85.7	87.0
From company-owned, U.S.-located units	78.2	80.1	80.3	80.6	81.4	81.5	81.8	79.9	80.3	81.5
From foreign-located subsidiaries	1.3	1.1	1.5	1.6	1.6	1.9	3.0	4.8	5.3	5.5
Paid for by others	20.5	18.8	18.2	17.9	17.1	16.6	15.2	15.3	14.3	13.0

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(Millions of dollars and percent share)

Sector	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Federal	12.3	10.6	10.1	9.1	7.8	7.6	6.3	6.1	5.6	4.5
Domestically located companies	3.9	3.8	3.8	4.2	3.9	4.1	3.8	4.4	4.3	4.4
Foreign-located companies	3.9	4.1	4.0	4.3	5.1	4.6	4.7	4.6	4.2	4.0
Foreign parent	2.5	2.5	2.8	3.2	3.9	3.5	3.9	3.9	3.6	3.6
Unaffiliated companies	1.4	1.6	1.2	1.0	1.1	1.1	0.8	0.7	0.6	0.4
All other organizations	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.2
In the United States	0.3	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.1	0.0
Outside the United States	0.0	0.1	0.0	0.2	0.1	0.2	0.0	0.0	0.1	0.0
<i>Addenda:</i>										
Funded by domestically located sources	94.8	94.7	94.4	94.0	93.2	93.3	92.3	90.5	90.4	90.5
Funded by foreign-located sources	5.2	5.3	5.6	6.0	6.8	6.7	7.7	9.5	9.6	9.5

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

<sup>a</sup> Includes companies located in the United States that performed or funded R&D. Data in this table represent an aggregate of all industries in the North American Industry Classification System codes 21–33 and 42–81.

<sup>b</sup> Parent companies of foreign-owned subsidiaries located in the United States.

<sup>c</sup> Includes U.S. state government agencies and laboratories, foreign agencies and laboratories, and all other organizations located inside and outside the United States.

<sup>d</sup> Consists of funds paid for by company-owned, U.S.-located units; domestically located companies; U.S. federal government; and all other organizations in the United States.

<sup>e</sup> Consists of funds paid by foreign-located subsidiaries, foreign parent, unaffiliated companies, and all other organizations outside of the United States.

**Note(s):**

Detail may not add to total because of rounding. Industry classification was based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. This table excludes data for federally funded R&D centers. Data for 2010–16 come from the National Center for Science and Engineering Statistics' (NCSES's) annual Business Research and Development and Innovation Survey, which covered all publicly or privately held companies with 5 or more employees. Data for 2017 and 2018 come from NCSES's annual Business Research and Development Survey, which covers all publicly or privately held companies with 10 or more employees. Data for 2019 come from NCSES's annual Business Enterprise Research and Development Survey, which also covers all publicly or privately held companies with 10 or more employees. An estimate range may be displayed in place of a single estimate to avoid disclosing operations of individual companies.

**Source(s):**

National Center for Science and Engineering Statistics, Business Research and Development and Innovation Survey (BRDIS), Business Research and Development Survey (BRDS), Business Enterprise Research and Development Survey (BERD).