

Table 2**Funds spent for business R&D performed in the United States, by source of funds, selected industry, and company size: 2019**

(Millions of dollars)

Industry, NAICS code, and company size	All R&D ^a	Paid for by the company ^b	Paid for by others				
			Total	Federal	Companies		All other organizations ^d
					Domestic	Foreign ^c	
All industries, 21–33, 42–81	492,956	428,968	63,989	21,941	21,461	19,554	1,033
Manufacturing industries, 31–33	285,674	248,109	37,564	16,023	i 5,470	15,749	322
Chemicals, 325	97,063	87,288	9,775	289	1,967	7,459	60
Pharmaceuticals and medicines, 3254	87,619	78,652	8,966	269	1,938	6,707	52
Other 325	9,444	8,636	809	20	29	752	8
Machinery, 333	15,184	13,930	1,254	193	371	689	1
Computer and electronic products, 334	86,729	75,570	11,159	5,802	1,679	3,604	74
Electrical equipment, appliance, and components, 335	5,263	4,886	377	27	30	i 317	3
Transportation equipment, 336	45,375	31,505	13,870	i 9,652	i 1,031	3,020	167
Motor vehicles, bodies, trailers, and parts, 3361–63	24,117	20,883	3,233	i 38,481	0-374	2,754	D
Aerospace products and parts, 3364	18,358	i 8,900	9,458	i 8,454	i 658	176-257	D
Other 336	2,900	1,722	1,179	D	D	D	D
Manufacturing nec, other 31–33	36,060	34,930	1,129	60	i 392	660	17
Nonmanufacturing industries, 21–23, 42–81	207,283	180,858	26,425	5,918	15,991	i 3,805	711
Information, 51	110,227	109,062	1,165	185	81	860	39
Software publishers, 5112	32,958	32,386	572	57	4	476	35
Other 51	77,269	76,676	593	128	77	384	4
Finance and insurance, 52	8,917	8,890	28	0	28	0	0
Professional, scientific, and technical services, 54	53,233	29,131	24,103	5,685	15,076	i 2,674	668
Computer systems design and related services, 5415	21,046	18,395	2,651	454	489	1,503	205
Scientific research and development services, 5417	21,669	3,265	18,403	3,343	13,741	i 1,002	317
Other 54	10,518	7,471	3,049	1,888	846	169	146
Nonmanufacturing nec, Other 21–23, 42–81	34,906	33,775	1,129	48	806	271	4
Size of company (number of domestic employees)							
Small companies ^e							
10–19	5,501	4,432	1,070	502	315	i 141	112
20–49	12,418	10,040	2,378	811	766	660	i 141
Medium companies							
50–99	14,021	11,492	2,529	697	796	784	252
100–249	19,793	16,520	3,274	988	1,029	1,147	110
Large companies							
250–499	18,883	15,356	3,527	1,393	623	1,405	i 106
500–999	23,969	21,549	2,420	248	i 566	1,592	i 14
1,000–4,999	75,671	64,475	11,196	1,710	1,924	i 7,500	62
5,000–9,999	50,811	44,728	6,083	977	3,908	i 1,141	57
10,000–24,999	88,263	74,385	13,878	i 1,717	i 7,183	i 4,918	60
25,000 or more	183,626	165,991	17,635	12,897	i 4,352	268	118

D = suppressed to avoid disclosure of confidential information; i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = North American Industry Classification System; nec = not elsewhere classified.

^a All R&D is the cost of R&D paid for and performed by the respondent company and paid for by others outside of the company and performed by the respondent company.

^b Includes foreign subsidiaries of U.S. companies (\$27.1 billion).

^c Includes foreign parent companies of U.S. subsidiaries (\$17.6 billion) and unaffiliated companies (\$2.0 billion). Excludes funds from foreign subsidiaries to U.S. companies paid for through intercompany transactions (\$27.1 billion).

^d Includes U.S. state government agencies and laboratories (< \$0.2 billion); U.S. universities, colleges, and academic researchers (\$0.05 billion); and all other organizations located inside (< \$0.8 billion) and outside the United States (< \$0.05 billion).

^e Includes only companies with 10 or more domestic employees.

Note(s):

Detail may not add to total because of rounding. Beginning in survey year 2018, companies that performed or funded less than \$50,000 of R&D were excluded from tabulation. These companies in aggregate represented a very small share of total R&D expenditures in prior years. Had the companies under this threshold been included in the 2018 estimates, they would have contributed approximately \$90 million to overall R&D expenditures. 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. Excludes data for federally funded research and development centers. 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 and Census Bureau, Business Enterprise Research and Development Survey, 2019.