

Table 2

Funds spent for business R&D performed in the United States, by source of funds, selected industry, and company size: 2018

(Millions of U.S. dollars)

Industry, NAICS code, and company size	All R&D ^a	Paid for by the company ^b	Paid for by others					All other organizations ^d	
			Total	Federal	Companies		All other organizations ^d		
					Domestic	Foreign ^c			
All industries, 21–33, 42–81	441,036	377,806	63,230	24,685	19,087	18,333	1,125		
Manufacturing industries, 31–33	274,075	234,682	39,393	18,980	5,323	14,623	467		
Chemicals, 325	84,137	73,584	10,553	204	2,277	8,001	71		
Pharmaceuticals and medicines, 3254	74,592	64,800	9,792	188	2,257	7,276	71		
Other 325	9,545	8,784	761	16	20	725	*		
Machinery, 333	14,799	13,765	1,034	175	187	D	D		
Computer and electronic products, 334	83,697	73,922	9,775	5,174	1,499	2,966	136		
Electrical equipment, appliance, and components, 335	4,487	4,222	266	39	23	202	2		
Transportation equipment, 336	52,629	35,894	16,735	13,321	i	1,118	2,057	239	
Motor vehicles, bodies, trailers, and parts, 3361–63	25,586	23,080	2,506	D	436	1,978	D		
Aerospace products and parts, 3364	24,291	11,160	13,131	i	12,167	i	680	D	
Other 336	2,752	1,654	1,098	D	2	D	D		
Manufacturing nec, other 31–33	34,326	33,295	1,030	67	i	219	D	D	
Nonmanufacturing industries, 21–23, 42–81	166,961	143,123	23,838	5,705	13,764	3,710	659		
Information, 51	94,349	93,487	862	50	51	729	32		
Software publishers, 5112	32,639	32,150	489	36	10	423	20		
Other 51	61,710	61,337	373	14	41	306	12		
Finance and insurance, 52	7,471	7,426	45	0	0	0	45		
Professional, scientific, and technical services, 54	44,860	22,374	22,486	5,620	13,504	2,797	565		
Computer systems design and related services, 5415	15,923	13,633	2,291	493	409	1,343	46		
Scientific research and development services, 5417	20,185	2,424	17,761	3,920	12,313	1,301	227		
Other 54	8,752	6,317	2,434	1,207	782	153	292		
Nonmanufacturing nec, other 21–23, 42–81	20,281	19,836	445	35	209	184	17		
Size of company (number of domestic employees)									
Small companies ^e									
10–19	4,390	3,340	1,050	462	348	183	57		
20–49	11,252	9,556	1,695	759	496	371	i	69	i
Medium companies									
50–99	12,321	10,446	1,875	561	550	643	121		
100–249	18,547	14,626	3,921	1,378	920	1,515	108		
Large companies									
250–499	19,645	16,604	3,041	1,016	622	1,317	i	86	i
500–999	17,657	15,561	2,096	128	467	1,291	i	210	i
1,000–4,999	68,578	58,509	10,068	1,462	1,202	7,335	69		
5,000–9,999	45,337	36,274	9,063	1,175	7,064	i	802	22	
10,000–24,999	84,420	74,423	9,997	2,161	3,259	4,558	19		
25,000 or more	158,889	138,465	20,423	15,583	4,161	319	360		

* = amount is less than \$500,000; 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 company.

^b Includes foreign subsidiaries of U.S. companies (\$23.5 billion).

^c Includes foreign parent companies of U.S. subsidiaries (\$15.8 billion) and unaffiliated companies (\$2.6 billion). Excludes funds from foreign subsidiaries to U.S. companies paid for through inter-company transactions (\$23.5 billion).

^d Includes U.S. state government agencies and laboratories (\$0.1 billion); U.S. universities, colleges, and academic researchers (\$0.1 billion); and all other organizations located inside (\$0.4 billion) and outside the United States (\$0.3 billion).

^e The Business Research and Development Survey does not include companies with fewer than 10 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 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.

Source(s)

National Center for Science and Engineering Statistics and U.S. Census Bureau, Business Research and Development Survey, 2018.