

TABLE 4-9

Funds spent for business R&D performed in the United States, by source of funds and selected industry: 2017

(Millions of dollars and percent share)

Industry and NAICS code	All R&D ^a	Paid for by the company ^b	Paid for by others							
			Total	Federal	Companies		All other organizations ^d			
					Domestic	Foreign ^c				
\$millions										
All industries, 21–33, 42–81 ^c	400,100	339,036	61,065	24,277	i	17,494	18,404	890	i	
Manufacturing industries, 31–33	257,227	216,155	41,072	18,889	i	6,229	15,434	520	i	
Chemicals, 325	74,977	63,285	11,692	205		2,696	8,707	84		
Pharmaceuticals and medicines, 3254	66,202	55,229	10,973	186		2,685	8,019	83		
Other 325	8,775	8,056	719	19		11	688	1		
Machinery, 333	13,197	12,257	940	170		130	640	0		
Computer and electronic products, 334	78,575	69,942	8,633	3,937		s	s	s		
Electrical equipment, appliances, and components, 335	4,291	4,110	181	38		65	77	1	i	
Transportation equipment, 336	53,292	34,629	18,663	14,433	i	s	2,219	s		
Automobiles, trailers, and parts, 3361–63	23,881	21,137	2,745	s		s	s	s		
Aerospace products and parts, 3364	26,383	11,903	14,480	i	s	1209	i	s	s	
Other 336	3,028	1,589	1,438	s		s	s	s		
Manufacturing nec, other 31–33	32,895	31,932	963	i	106	i	s	s	s	
Nonmanufacturing industries, 21–23, 42–81	142,874	122,881	19,993	5,388		11,265	i	2,970	370	i
Information, 51	80,252	78,898	1,354	98		117	1138	1		
Software publishers, 5112	34,264	33,201	1,062	62		66	933	1		
Other 51	45,988	45,697	292	36		51	205	0		
Finance and insurance, 52	7,616	7,565	51	0		*	i	0	51	
Professional, scientific, and technical services, 54	36,922	18,972	17,951	5,256		10,874	i	1,530	291	i
Computer systems design and related services, 5415	13,327	11,669	1,658	995		339	201	123		
Scientific R&D services, 5417	17,321	2,817	14,504	3,200		10,024	i	1,160	120	i
Other 54	6,274	4,486	1,789	1,061		511	i	169	48	i
Nonmanufacturing nec, other 21–23, 42–81	18,084	17,446	637	34		274	302	27		
Percentage of sector or industry totals										
All industries, 21–33, 42–81 ^c	100.0	84.7	15.3	6.1		4.4	4.6	0.2		
Manufacturing industries, 31–33	100.0	84.0	16.0	7.3		2.4	6.0	0.2		
Chemicals, 325	100.0	84.4	15.6	0.3		3.6	11.6	0.1		
Pharmaceuticals and medicines, 3254	100.0	83.4	16.6	0.3		4.1	12.1	0.1		
Other 325	100.0	91.8	8.2	0.2		0.1	7.8	0.0		
Machinery, 333	100.0	92.9	7.1	1.3		1.0	4.8	0.0		
Computer and electronic products, 334	100.0	89.0	11.0	5.0		s	s	s		
Electrical equipment, appliances, and components, 335	100.0	95.8	4.2	0.9		1.5	1.8	0.0		
Transportation equipment, 336	100.0	65.0	35.0	27.1		s	4.2	s		
Automobiles, trailers, and parts, 3361–63	100.0	88.5	11.5	s		s	s	s		
Aerospace products and parts, 3364	100.0	45.1	54.9	s		4.6	s	s		
Other 336	100.0	52.5	47.5	s		s	s	s		
Manufacturing nec, other 31–33	100.0	97.1	2.9	0.3		s	s	s		
Nonmanufacturing industries, 21–23, 42–81	100.0	86.0	14.0	3.8		7.9	2.1	0.3		
Information, 51	100.0	98.3	1.7	0.1		0.1	1.4	0.0		
Software publishers, 5112	100.0	96.9	3.1	0.2		0.2	2.7	0.0		
Other 51	100.0	99.4	0.6	0.1		0.1	0.4	0.0		
Finance and insurance, 52	100.0	99.3	0.7	0.0		*	0.0	0.7		
Professional, scientific, and technical services, 54	100.0	51.4	48.6	14.2		29.5	4.1	0.8		
Computer systems design and related services, 5415	100.0	87.6	12.4	7.5		2.5	1.5	0.9		
Scientific R&D services, 5417	100.0	16.3	83.7	18.5		57.9	6.7	0.7		
Other 54	100.0	71.5	28.5	16.9		8.1	2.7	0.8		

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			Total	Federal	Companies		All other organizations ^d
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Nonmanufacturing nec, other 21–23, 42–81	100.0	96.5	3.5	0.2	1.5	1.7	0.1

* = amount < \$500,000; i = more than 50% of value imputed; s = suppressed for reasons of confidentiality or reliability.

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

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

^b Includes foreign subsidiaries of U.S. companies (\$19.2 billion).

^c Includes foreign parent companies of U.S. subsidiaries (\$15.4 billion) and unaffiliated companies (\$3.0 billion). Excludes funds from foreign subsidiaries to U.S. companies paid for through intercompany transactions (\$19.2 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 (\$0.5 billion) and outside the United States (\$0.2 billion).

Note(s)

Detail may not add to total because of rounding. Statistics are representative of companies located in the United States that performed or funded R&D. 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.

Source(s)

National Center for Science and Engineering Statistics, National Science Foundation, and U.S. Census Bureau, Business Research and Development Survey, 2017.

Science and Engineering Indicators