

Table 35. Domestic R&D paid for by others and performed by the company, by source of funds, industry, and company size: 2024

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Companies in the United States	Companies outside the United States		U.S. federal government agencies	U.S. state government agencies	Foreign government agencies	U.S. universities, colleges, and academic researchers	Foreign universities, colleges, and academic researchers	All other	
				Company's parent	Unaffiliated companies						In the United States	Outside the United States
All industries	21–23, 31–33, 42–81	85,711	27,442	23,767	2,519	30,995	153	171	47	7	554	56
Manufacturing industries	31–33	48,661	7,184	16,344	1,236	23,361	67	160	20	1	253	34
Food	311	268	19	237	11	1	0	0	0	0	1	0
Beverage and tobacco products	312	*	0	0	0	*	0	0	0	0	0	0
Textile, apparel, and leather products	313–16	6	0	0	1	0	0	0	0	0	5	0
Wood products	321	6	0	6	0	*	0	0	0	0	0	0
Paper	322	1	D	D	0	0	0	0	0	0	0	0
Printing and related support activities	323	2	D	D	0	0	* r	0	0	0	0	0
Petroleum and coal products	324	2	D	0	D	1	0	D	0	0	0	0
Chemicals	325	11,954	2,029	8,495	565	684	12	D	17	* i	119	D
Basic chemicals	3251	237	6	152	3	72	*	0	3	0	*	0
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	D	D	D	D	0	0	0	0	0	2	0
Pesticide, fertilizer, and other agricultural chemicals	3253	D	0	D	2	D	D	0	0	0	0	0
Pharmaceuticals and medicines	3254	10,971	2,011	7,654	546	587 i	10	D	14	0	116 i	D
Soap, cleaning compound, and toilet preparations	3256	272	*	271	0	0	0	0	0	0	1	0
Paint, coating, adhesive, and other chemicals	3255, 3259	D	D	D	D	D	D	*	*	* i	*	0
Plastics and rubber products	326	141	21	116	*	2	0	0	0	0	1	0
Nonmetallic mineral products	327	22	D	D	D	2	* r	0	* r	0	* r	* r
Primary metals	331	45	D	0	33	6	2	0	0	0	D	0
Fabricated metal products	332	93	64	14	0	5 r	0	D	0	0	D	0
Machinery	333	2,191	406	1,320	256	161	34	0	*	0	14	0
Agricultural implement	33311	D	* r	D	D	2 r	6	0	*	0	0	0
Semiconductor machinery	333242	D	D	D	D	D	0	0	0	0	0	0
Engine, turbine, and power transmission equipment	3336	D	D	D	D	D	25	0	0	0	8	0
Other machinery	other 333	333	182	33	77	33	3	0	0	0	6 r	0
Computer and electronic products	334	8,561	789 i	4,100	145	3,380	8	75	1	0	62	*
Communications equipment	3342	771 i	D	D	3	D	*	0	*	0	*	0
Semiconductor and other electronic components	3344	3,812	200	3,198	112	243	8	0	1	0	51	*
Navigational, measuring, electromedical, and control instruments	3345	3,347	D	D	30	2,897	*	75	*	0	10	0
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	199	16	138	*	37 r	0	*	*	0	7	0
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	2,971	D	0	D	2,765	*	75	0	0	2	0
Other measuring and controlling devices	other 3345	177	24	D	D	94 r	0	0	0	0	*	0
Other computer and electronic products	other 334	631	D	506	* i	D	0	0	0	0	0	0
Electrical equipment, appliances, and components	335	864	14	769	10	62	1	*	0	1	6 r	*

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Transportation equipment	336	24,192	3,761	1,179	182	18,950	i	10		84		*		0		26	0						
Motor vehicles, bodies, trailers, and parts	3361–63	D	428	1,125	76	D		D		6	r	0		0		D	0						
Aerospace products and parts	3364	20,774	i	3,312	D	105	i	D		78		D		0		D	0						
Aircraft, aircraft engine, and aircraft parts	336411–13	D	D	D	D	13,802	i	1	r	D		*	r	0		D	0						
Guided missile, space vehicle, and related parts	336414–15, 336419	D	D	0	D	3,414		D		D		D		0		D	0						
Military armored vehicle, tank, and tank components	336992	10	D	0	0	D		0		0		0		0		0	0						
Other transportation	other 336	D	D	D	0	D		0		0		D		0		0	0						
Furniture and related products	337	0	0	0	0	0		0		0		0		0		0	0						
Miscellaneous	339	312	D	D	D	107		*		0		1		0		8	D						
Medical equipment and supplies	3391	285	67	85	D	98		*		0		1		0		8	D						
Other miscellaneous manufacturing	3399	27	D	D	D	9		0		0		0		0		0	0						
Nonmanufacturing industries	21–23, 42–81	37,050		20,258	i	7,422	i	1,283		7,634		86		10		28		6	r	301	22		
Mining, quarrying, oil and gas extraction, and support activities	21	638	i	32	i	603	i	3		*		0		0		*		0		*	0		
Utilities	22	D	*	0	0	D		*		0		0		0		0		0		0	0		
Wholesale trade	42	D	D	108	i	11		D		*		0		0		*		0		0	0		
Electronic shopping and electronic auctions	454111–12	0	0	0	0	0		0		0		0		0		0		0		0	0		
Transportation and warehousing	48–49	D	2	0	0	D		0		0		0		0		0		0		0	0		
Information	51	1,322	587	585	54	60		7		1		*		0		24		4					
Publishing	511	511	102	395	2	3		3		1		0		0		0		4					
Newspaper, periodical, book, and directory publishers	5111	0	0	0	0	0		0		0		0		0		0		0					
Software publishers	5112	511	102	395	2	3		3		1		0		0		0		4					
Telecommunications	517	D	D	D	0	3		0		0		*		0		*		0					
Data processing, hosting, and related services	518	755	483	i	139	52		53		4		*		0		24		0					
Other information	other 51	D	D	D	0	0		0		0		0		0		0		0					
Finance and insurance	52	101	101	0	0	0		0		0		0		0		0		0					
Real estate and rental and leasing	53	0	0	0	0	0		0		0		0		0		0		0					
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	0	0	0	0		0		0		0		0		0		0					
Other real estate and rental and leasing	other 53	0	0	0	0	0		0		0		0		0		0		0					
Professional, scientific, and technical services	54	34,415	19,437	i	6,077	i	1,215	i	7,297		78		10		27		6	r		250	17	i	
Architectural, engineering, and related services	5413	654	176	26	8	404		24		3		2		*		10		1					
Computer systems design and related services	5415	4,411	256	2,391	618	1,115		4	r	0		3	r	0		23		0					
Scientific research and development services	5417	28,237	18,813	i	3,620	i	578	i	4,933		49		7		21		6	r		193	i	16	i
Research and development in nanotechnology	541713	115	14	17	0	75		3		0		0		0		5		0					
Research and development in biotechnology (except nanobiotechnology)	541714	5,547	4,167	638	31	641		4		0		3	r	5	r	58		*					

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Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	21,872 i	14,621 i	2,965 i	547 i	3,542	30	3	16	1	130 i	16 i
Research and development in the social sciences and humanities	541720	704	12	0	0	675	11	4	2	0	*	0
Other professional, scientific, and technical services	other 54	1,113	192	40	11	844	1	0	1	*	24	0
Health care services	621–23	131	84	22	1 i	*	1 i	0	0	0	24	*
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	49	D	27	0	D	*	0	0	0	2	0
All companies (number of domestic employees)	–	85,711	27,442	23,767	2,519	30,995	153	171	47	7 r	554	56 i
Small companies												
10–19 ^a	–	1,056	249	158	41	486	14	10	12	5 r	79	4
20–49	–	2,026	668	372	39	808	40	2	16	1	70	9
Medium companies												
50–99	–	2,080	621	591	106	703	15	1	3	*	39	1
100–249	–	2,777	649	751	148	1,089	31	2	6	* i	77	25 i
Large companies												
250–499	–	2,667	242	1,266	236	878	D	*	6	1	D	0
500–999	–	4,545	723	2,765	128	853	5	1	*	0	60 i	10 i
1,000–4,999	–	13,201	5,616 i	5,666	313	1,579	10	*	i	2	14	* i
5,000–9,999	–	7,146	2,229	3,665	83 i	1,150	11	4	2	0	2	0
10,000–24,999	–	19,357	7,823 i	8,483	734 i	2,108	1	67	1	* i	135 i	6 i
25,000 or more	–	30,855	8,622	50	692	21,340 i	D	85	*	0	D	0

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse; r = relative standard error is more than 50%.

NAICS = 2017 North American Industry Classification System.

^a The Business Enterprise Research and Development Survey does not include companies with fewer than 10 domestic employees.

Note(s):
Detail may not add to total because of rounding. Industry classification is 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. Statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2024.