

Table 39. Domestic R&D paid for by sources located outside the United States 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	Foreign companies				Foreign government agencies	Foreign universities, colleges, and academic researchers	All other					
			Subsidiaries ^a	Company's parent	Unaffiliated companies									
All industries	21–23, 31–33, 42–81	65,576	39,057		23,767		2,519		171		7	r	56	i
Manufacturing industries	31–33	45,309	27,534		16,344		1,236		160		1		34	i
Food	311	471	223		237		11		0		0		0	
Beverage and tobacco products	312	0	0		0		0		0		0		0	
Textile, apparel, and leather products	313–16	1	0		0		1		0		0		0	
Wood products	321	6	0		6		0		0		0		0	
Paper	322	D	0		D		0		0		0		0	
Printing and related support activities	323	D	0		D		0		0		0		0	
Petroleum and coal products	324	D	D		0		D		D		0		0	
Chemicals	325	15,526	6,432		8,495		565		D		*	i	D	
Basic chemicals	3251	164	9	i	152		3		0		0		0	
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	D	*		D		D		0		0		0	
Pesticide, fertilizer, and other agricultural chemicals	3253	D	*		D		2		0		0		0	
Pharmaceuticals and medicines	3254	14,636	6,402		7,654		546		D		0		D	
Soap, cleaning compound, and toilet preparations	3256	286	15	i	271		0		0		0		0	
Paint, coating, adhesive, and other chemicals	3255, 3259	D	6		D		D		*		*	i	0	
Plastics and rubber products	326	609	493		116		*		0		0		0	
Nonmetallic mineral products	327	D	12		D		D		0		0		*	r
Primary metals	331	33	0		0		33		0		0		0	
Fabricated metal products	332	D	34	i	14		0		D		0		0	
Machinery	333	2,099	523		1,320		256		0		0		0	
Agricultural implement	33311	D	2		D		D		0		0		0	
Semiconductor machinery	333242	D	3		D		D		0		0		0	
Engine, turbine, and power transmission equipment	3336	D	0		D		D		0		0		0	
Other machinery	other 333	628	518		33		77		0		0		0	
Computer and electronic products	334	21,948	17,627		4,100		145		75		0		*	
Communications equipment	3342	D	D		D		3		0		0		0	
Semiconductor and other electronic components	3344	D	D		3,198		112		0		0		*	
Navigational, measuring, electromedical, and control instruments	3345	D	164		D		30		75		0		0	
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	138	0		138		*		*		0		0	
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	D	5		0		D		75		0		0	
Other measuring and controlling devices	other 3345	217	159		D		D		0		0		0	
Other computer and electronic products	other 334	D	D		506		*	i	0		0		0	
Electrical equipment, appliances, and components	335	847	67		769		10		*		1		*	
Transportation equipment	336	1,913	469		1,179		182		84		0		0	
Motor vehicles, bodies, trailers, and parts	3361–63	1,615	408		1,125		76		6	r	0		0	

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Aerospace products and parts	3364	D	61		D		105	i	78		0		0	
Aircraft, aircraft engine, and aircraft parts	336411–13	D	D		D		D		D		0		0	
Guided missile, space vehicle, and related parts	336414–15, 336419	D	D		0		D		D		0		0	
Military armored vehicle, tank, and tank components	336992	0	0		0		0		0		0		0	
Other transportation	other 336	D	0		D		0		0		0		0	
Furniture and related products	337	71	71		0		0		0		0		0	
Miscellaneous	339	1,377	D		D		D		0		0		D	
Medical equipment and supplies	3391	1,273	1,162		85		D		0		0		D	
Other miscellaneous manufacturing	3399	104	i	D		D		D	0		0		0	
Nonmanufacturing industries	21–23, 42–81	20,267	i	11,523	i	7,422	i	1,283	10		6	r	22	
Mining, quarrying, oil and gas extraction, and support activities	21	669	i	63		603	i	3	0		0		0	
Utilities	22	0	0		0		0		0		0		0	
Wholesale trade	42	119	i	0		108	i	11	0		0		0	
Electronic shopping and electronic auctions	454111–12	2	2		0		0		0		0		0	
Transportation and warehousing	48–49	0	0		0		0		0		0		0	
Information	51	10,669	i	10,025	i	585		54	1		0		4	
Publishing	511	857		455		395		2	1		0		4	
Newspaper, periodical, book, and directory publishers	5111	0	0		0		0		0		0		0	
Software publishers	5112	857		455		395		2	1		0		4	
Telecommunications	517	D	0		D		0		0		0		0	
Data processing, hosting, and related services	518	D	D		139		52		0		0		0	
Other information	other 51	D	D		D		0		0		0		0	
Finance and insurance	52	1,137	1,137		0		0		0		0		0	
Real estate and rental and leasing	53	0	0		0		0		0		0		0	
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	0		0		0		0		0		0	
Other real estate and rental and leasing	other 53	0	0		0		0		0		0		0	
Professional, scientific, and technical services	54	7,619	i	294		6,077	i	1,215	10		6	r	17	i
Architectural, engineering, and related services	5413	45	7		26		8		3		*		1	
Computer systems design and related services	5415	3,258	249		2,391		618		0		0		0	
Scientific research and development services	5417	4,259	i	32		3,620	i	578	7		6	r	16	i
Research and development in nanotechnology	541713	21	3		17		0		0		0		0	
Research and development in biotechnology (except nanobiotechnology)	541714	679	5		638		31		0		5	r	*	
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	3,555	i	23		2,965	i	547	3		1		16	i
Research and development in the social sciences and humanities	541720	4	0		0		0		4		0		0	
Other professional, scientific, and technical services	other 54	58	7		40		11		0		*		0	
Health care services	621–23	22	0		22		1	i	0		0		*	

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Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	29	1		27		0		0		0	
All companies (number of domestic employees)	–	65,576	39,057		23,767		2,519		171		7	r 56
Small companies												
10–19 ^b	–	231	15		158		41		10		5	r 4
20–49	–	464	40		372		39		2		1	9
Medium companies												
50–99	–	954	255		591		106		1		*	1
100–249	–	1,484	559		751		148		2		*	i 25
Large companies												
250–499	–	2,005	503		1,266		236		*		1	0
500–999	–	3,773	868		2,765		128		1		0	10
1,000–4,999	–	9,721	3,742		5,666		313		*	i	0	* i
5,000–9,999	–	6,711	2,961		3,665		83	i	4		0	0
10,000–24,999	–	10,307	1,017		8,483		734	i	67		*	i 6
25,000 or more	–	29,925	29,097		50		692		85		0	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 Statistics are based on companies in the United States that reported to the survey. No systematic item imputation was applied. These statistics include an adjustment to the weight to account for unit nonresponse.

^b 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. In all other tables, R&D costs of foreign-company subsidiaries of U.S. companies are included in company-funded U.S. domestic R&D totals. Only in this table are such R&D costs classified as being part of R&D paid for by sources located outside of the United States.

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