

Table 19. Companies with domestic R&D paid for by the company and others and performed by the company in the biotechnology focus area, by industry and company size: 2024

(Millions of U.S. dollars and number of companies)

Industry and company size	NAICS code	Biotechnology R&D											
		Domestic R&D		Total				Paid for by the company				Paid for by others	
		Companies (number)	Amount	Companies (number)	Amount	Companies (number)	Amount	Companies (number)	Amount	Companies (number)	Amount	Companies (number)	Amount
All industries	21–23, 31–33, 42–81	29,570	765,082	2,980	i 138,636	2,580	i 115,278	790	i 23,358				
Manufacturing industries	31–33	12,780	405,092	1,880	118,658	1,770	110,390	330	8,268				
Food	311	990	6,288	i 160	i 1,182	160	i 1,129	i 10	54				
Beverage and tobacco products	312	260	1,459	10	2	10	2	0	0				
Textile, apparel, and leather products	313–16	190	788	20	i 21	20	i 21	0	0				
Wood products	321	90	267	10	i 5	10	i 5	0	0				
Paper	322	80	1,240	10	1	10	1	0	0				
Printing and related support activities	323	140	255	0	0	0	0	0	0				
Petroleum and coal products	324	60	1,006	10	42	10	42	0	0				
Chemicals	325	2,250	143,745	1,070	110,658	1,020	102,654	230	8,004				
Basic chemicals	3251	300	3,120	70	i 443	70	i 304	10	i 139				
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	130	1,354	30	i D	30	i D	0	0				
Pesticide, fertilizer, and other agricultural chemicals	3253	70	1,253	40	i D	40	i D	10	2				
Pharmaceuticals and medicines	3254	1,140	133,627	910	109,797	860	101,986	220	7,811				
Soap, cleaning compound, and toilet preparations	3256	210	2,956	40	i 130	i 40	i 78	10	i 52	i			
Paint, coating, adhesive, and other chemicals	3255, 3259	420	1,435	10	D	10	D	10	*				
Plastics and rubber products	326	650	2,908	70	i 108	70	i 108	0	0				
Nonmetallic mineral products	327	280	1,578	i 10	*	10	*	10	*				
Primary metals	331	170	1,174	0	0	0	0	0	0				
Fabricated metal products	332	1,480	3,230	10	11	10	11	0	0				
Machinery	333	1,980	22,035	60	53	40	i 47	30	r 6				
Agricultural implement	33311	160	2,561	10	1	10	1	0	0				
Semiconductor machinery	333242	50	6,851	10	*	10	*	0	0				
Engine, turbine, and power transmission equipment	3336	140	4,230	0	0	0	0	0	0				
Other machinery	other 333	1,640	8,394	60	52	40	i 46	30	r 6				
Computer and electronic products	334	1,710	115,599	180	i 2,922	i 160	i 2,846	i 40	i 75	i			
Communications equipment	3342	300	12,839	10	D	10	D	0	0				
Semiconductor and other electronic components	3344	470	52,358	20	i 82	i 20	48	10	i 34	i			
Navigational, measuring, electromedical, and control instruments	3345	810	14,083	160	i 2,832	i 150	i 2,791	i 30	i 42	i			

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Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	220	3,245	80	i	1,870	i	70	i	1,843	i	20	r	27	i	
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	130	6,161	10		1		10		1		10		*		
Other measuring and controlling devices	other 3345	470	4,677	90	i	961	i	80	i	947	i	20	i	14		
Other computer and electronic products	other 334	150	36,318	10	i	D		10	i	D		0		0		
Electrical equipment, appliances, and components	335	380	6,999	30	i	91	i	30	i	57		10	i	34	i	
Transportation equipment	336	930	71,231	60	r	176		60	r	142	r	10		34		
Motor vehicles, bodies, trailers, and parts	3361–63	540	31,812	10		D		10		D		10	i	6	i	
Aerospace products and parts	3364	260	35,904	60	r	D		60	r	D		10		27		
Aircraft, aircraft engine, and aircraft parts	336411–13	230	D	50	r	143	r	50	r	116	r	10		27		
Guided missile, space vehicle, and related parts	336414–15, 336419	30	D	10		D		10		D		0		0		
Military armored vehicle, tank, and tank components	336992	20	33	0		0		0		0		0		0		
Other transportation	other 336	130	3,481	0		0		0		0		0		0		
Furniture and related products	337	200	450	0		0		0		0		0		0		
Miscellaneous	339	1,050	24,840	240	i	3,387	i	230	i	3,325	i	40	i	62		
Medical equipment and supplies	3391	660	22,126	230	i	3,365	i	220	i	3,303	i	40	i	62		
Other miscellaneous manufacturing	3399	390	2,715	20		22		20		22		0		0		
Nonmanufacturing industries	21–23, 42–81	16,790	359,990	1,100	i	19,977	i	820	i	4,888		460	i	15,090	i	
Mining, quarrying, oil and gas extraction, and support activities	21	60	1,862	10		7		10		7		0		0		
Utilities	22	70	613	10		*		10		*		0		0		
Wholesale trade	42	2,350	1,692	i	80	i	153	i	80	i	122	i	10		31	i
Electronic shopping and electronic auctions	454111–12	270	7,898	i	0		0		0		0		0		0	
Transportation and warehousing	48–49	490	r 11,341		0		0		0		0		0		0	
Information	51	3,750	228,174		30		510		30		510		10	i	*	i
Publishing	511	1,690	63,596		20		440		20		440		0		0	
Newspaper, periodical, book, and directory publishers	5111	50	i 489	i	0		0		0		0		0		0	
Software publishers	5112	1,650	63,108		20		440		20		440		0		0	

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Telecommunications	517	150	3,323	0	0		0	0		0	0		
Data processing, hosting, and related services	518	1,680	58,772	20	70		20	70		10	i	* i	
Other information	other 51	240	102,484	0	0		0	0		0	0		
Finance and insurance	52	220	25,463	0	0		0	0		0	0		
Real estate and rental and leasing	53	540	2,750	0	0		0	0		0	0		
Lessors of nonfinancial intangible assets (except copyrighted works)	533	10	i 23	0	0		0	0		0	0		
Other real estate and rental and leasing	other 53	530	2,727	0	0		0	0		0	0		
Professional, scientific, and technical services	54	7,560	74,548	920	i	18,464	i	640	i	3,447	450	i 15,018 i	
Architectural, engineering, and related services	5413	1,660	3,893	100	i	141	i	90	i	134	i	20 i 7 i	
Computer systems design and related services	5415	2,950	26,764	90	i	299	i	40	i	263	i	60 i 35 i	
Scientific research and development services	5417	1,500	33,942	680	i	17,682	i	510	i	2,859	340	i 14,823 i	
Research and development in nanotechnology	541713	80	548	40	i	138	i	30	i	111	i	20 i 27	
Research and development in biotechnology (except nanobiotechnology)	541714	420	6,751	310	i	5,034		240	i	1,104	150	3,931	
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	980	25,931	340	i	11,869	i	240	i	1,645	i	170 i 10,224 i	
Research and development in the social sciences and humanities	541720	20	712	10	640			0	0		10	640	
Other professional, scientific, and technical services	other 54	1,480	9,949	i	60	i	342	i	30	i	189	i 50 i 153 i	
Health care services	621–23	260	2,020	70	i	809		70	i	768	10	41	
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	1,290	3,628	20	i	34		20	i	34	0	0	
All companies (number of domestic employees)	–	29,570	765,082	2,980	i	138,636		2,580	i	115,278	790	i 23,358	
Small companies													
10–19 ^a	–	5,590	4,790	650	i	1,489		500	i	1,093	260	i 396 i	

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20–49	–	7,920	16,179	790	i 4,202	680	i 3,486	200	i 716		
Medium companies											
50–99	–	5,030	17,078	540	6,759	470	5,926	130	832		
100–249	–	4,540	29,325	440	i 10,089	420	9,118	90	971		
Large companies											
250–499	–	2,100	28,852	180	8,408	170	7,394	50	1,014		
500–999	–	1,880	44,697	160	i 7,732	150	6,689	30	1,043		
1,000–4,999	–	1,490	123,813	150	22,287	140	18,139	40	4,148	i	
5,000–9,999	–	280	62,950	50	6,247	40	3,278	i 10	2,969		
10,000–24,999	–	610	140,348	40	46,525	40	38,192	20	8,334		
25,000 or more	–	150	297,050	20	24,897	20	21,962	10	i 2,935	i	

* = 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. Companies could report R&D in one, more than one, or no application area.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2024.