

Table 26. Domestic R&D paid for and performed by the company, by industry and company size: 2024

(Millions of U.S. dollars)

Industry	NAICS code	Company size (domestic employees)											
		All companies	10–19 ^a	20–49	50–99	100–249	250–499	500–999	1,000–4,999	5,000–9,999	10,000–24,999	25,000 or more	
All industries	21–23, 31–33, 42–81	679,371	3,734	14,153	14,998	26,548	26,185	40,152	110,612	55,804	120,991	266,195	
Manufacturing industries	31–33	356,431	1,397	5,701	9,060	15,286	15,651	16,061	54,473	32,295	88,296	118,210	
Food	311	6,020	4	D	115	274	294	375	910	D	1,513	932	i
Beverage and tobacco products	312	1,459	20 r	7	16	28	32	14	193	384	65	698	
Textile, apparel, and leather products	313–16	783	0	67 r	10	44	46	32	230	279	74	0	
Wood products	321	261	0	4	4	14	8 i	14	38	105	74	0	
Paper	322	1,238	0	1 r	4	56	27	96	74	381	355	245	
Printing and related support activities	323	253	3	5	15	32	10	16	93	70 i	10	0	
Petroleum and coal products	324	1,004	0	D	D	15	12	73	98	2	731	D	
Chemicals	325	131,790	777	2,973	5,534	9,576	8,998	6,545	21,744	5,606	43,516	26,522	
Basic chemicals	3251	2,883	25 r	24	148	141	401	193	1,010	531	409	0	
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	D	D	19 r	D	D	53	128	D	0	905	0	
Pesticide, fertilizer, and other agricultural chemicals	3253	D	2	32	D	15	102	0	D	D	D	0	
Pharmaceuticals and medicines	3254	122,656	715	2,831	5,252	9,156	8,248	6,094	19,864	4,310	41,088	25,098	
Soap, cleaning compound, and toilet preparations	3256	2,684	4 r	10	23	100	36	15	239	541 i	448	1,268	i
Paint, coating, adhesive, and other chemicals	3255, 3259	D	D	58	D	D	158	115	D	D	D	155	
Plastics and rubber products	326	2,767	0	64 r	84	155	165	186	683	627	582	222	
Nonmetallic mineral products	327	1,556 i	8	D	29	29	41	50	160	254	D	0	
Primary metals	331	1,129	D	11	36	33	18	17	305	D	507	0	
Fabricated metal products	332	3,137	26	222	204	381	256	364	1,117	234	318	14	
Machinery	333	19,844	97	D	611	684	826	735	3,061	D	5,448	4,667	
Agricultural implement	33311	D	10	20	11	93	34	22	235	D	D	D	
Semiconductor machinery	333242	D	*	22	64	D	D	204	1,031	D	D	0	
Engine, turbine, and power transmission equipment	3336	D	1 r	18 r	6	11	53	43	119	D	D	2,812	
Other machinery	other 333	8,060	86	D	530	D	D	466	1,676	D	D	D	
Computer and electronic products	334	107,038	221	753	1,015	2,002	2,657	2,267	15,912	8,951	26,885	46,375	
Communications equipment	3342	12,069	D	D	202 r	265	D	D	D	D	D	D	
Semiconductor and other electronic components	3344	48,546	D	260	D	815	1,584	1,098	5,781	3,893	D	12,452	
Navigational, measuring, electromedical, and control instruments	3345	10,736	D	296	375	798	D	D	3,746	D	1,270	864	
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	3,046	31	165	137	234	414 i	215	268	1,224	357	0	
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	3,190	13	27	62	236	2	D	1,901	D	0	864	
Other measuring and controlling devices	other 3345	4,501	D	104	176	328	D	D	1,577	880	913	0	
Other computer and electronic products	other 334	35,687	D	D	D	124	D	D	D	D	D	D	
Electrical equipment, appliances, and components	335	6,135	D	D	302	481	528	1,123	2,373	611	279	316	i
Transportation equipment	336	47,039	41	155	436	510	516	2,668	3,081	5,230	3,022	31,379	
Motor vehicles, bodies, trailers, and parts	3361–63	D	D	73	68	241	334	1,615	1,583	4,376	2,461	D	
Aerospace products and parts	3364	15,130	D	52	255	183	117	D	1,270	394	D	11,521	

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Aircraft, aircraft engine, and aircraft parts	336411–13	D	1	D	D	139	D	626	D	394	D	D							
Guided missile, space vehicle, and related parts	336414–15, 336419	D	D	D	D	44	D	D	D	0	0	D							
Military armored vehicle, tank, and tank components	336992	23	0	0	D	*	12	D	0	0	0	0							
Other transportation	other 336	D	D	30	D	86	53	107	229	460	i	D	D						
Furniture and related products	337	450	2	5	16	30	49	30	97	143	78	0							
Miscellaneous	339	24,528	139	D	D	942	1,166	1,458	4,303	4,435	D	D							
Medical equipment and supplies	3391	21,840	135	783	r	530	603	820	1,221	3,069	4,400	3,624	6,654						
Other miscellaneous manufacturing	3399	2,688	4	D	D	339	346	236	1,234	35	D	D							
Nonmanufacturing industries	21–23, 42–81	322,940	2,337	8,452	5,939	11,262	10,534	24,090	56,139	23,509	32,695	147,984							
Mining, quarrying, oil and gas extraction, and support activities	21	1,224	6	30	67	D	175	9	155	D	678	0							
Utilities	22	D	1	D	0	0	2	8	149	12	397	20							
Wholesale trade	42	D	86	D	204	i	331	i	285	193	i	149	i	55	i	43	i	0	
Electronic shopping and electronic auctions	454111–12	7,898	i	1	r	15	7	46	124	6	353	i	D	0	D				
Transportation and warehousing	48–49	D	0	*	467	r	7	85	129	1,121	D	5,469	i	731					
Information	51	226,853	925	4,673	2,131	5,716	5,556	16,061	38,205	12,208	18,990	122,388							
Publishing	511	63,085	505	1,025	D	2,414	1,474	D	11,943	2,837	13,788	26,431							
Newspaper, periodical, book, and directory publishers	5111	489	i	*	i	*	i	8	i	9	i	5	i	0	467	i	0	0	0
Software publishers	5112	62,597	505	1,025	D	2,405	1,470	D	11,476	2,837	13,788	26,431							
Telecommunications	517	D	2	r	D	D	134	134	190	D	D	41	D						
Data processing, hosting, and related services	518	58,017	411	3,530	1,138	2,753	3,535	4,877	20,860	3,260	5,162	i	12,492						
Other information	other 51	D	7	D	D	415	412	D	D	D	0	D							
Finance and insurance	52	25,362	23	17	14	643	882	569	7,246	4,464	i	3,106	8,397						
Real estate and rental and leasing	53	2,750	3	21	45	30	15	83	2,439	7	0	109							
Lessors of nonfinancial intangible assets (except copyrighted works)	533	23	0	0	23	*	i	0	*	0	0	0	0						
Other real estate and rental and leasing	other 53	2,727	3	21	22	29	15	83	2,439	7	0	109							
Professional, scientific, and technical services	54	40,134	D	3,343	2,816	4,055	3,023	6,582	4,429	D	3,715	i	9,548						
Architectural, engineering, and related services	5413	3,240	D	315	272	501	555	514	r	491	D	108	0						
Computer systems design and related services	5415	22,353	436	1,605	1,533	2,111	1,435	4,800	3,067	339	723	6,305							
Scientific research and development services	5417	5,705	635	1,100	770	836	347	707	137	0	2	1,171							
Research and development in nanotechnology	541713	434	14	60	78	0	6	265	11	0	0	0							
Research and development in biotechnology (except nanobiotechnology)	541714	1,204	228	352	174	314	24	13	20	0	2	75							
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	4,060	392	686	518	522	317	429	100	0	0	1,097							
Research and development in the social sciences and humanities	541720	8	1	2	0	0	0	0	6	0	0	0							
Other professional, scientific, and technical services	other 54	8,835	i	67	323	242	608	686	561	734	661	2,882	i	2,071	i				
Health care services	621–23	1,888	D	D	75	172	69	123	1,282	18	*	96							
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	3,579	7	D	113	D	319	329	610	D	294	D							

* = 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.