

Table 7. Domestic R&D performed by the company, by selected industry and source of funds, for companies with 1–9 employees: 2023

(Thousands of U.S. dollars)

Industry	NAICS code	Total	Paid for by the company	Foreign owner	Another U.S. company	Other businesses outside the United States	U.S. university or college	U.S. nonprofit organization	U.S. federal government	U.S. state or local government	All other organizations outside the United States
All selected industries	31–33, 42, 51, 5413, 5415, 5417	5,943,753	4,644,201	164,699	375,984	35,146	36,493	22,029	650,113	14,650	438
Manufacturing industries	31–33	557,276	354,105	11,288	93,058	30	3,702	574	93,413	1,092	14
Food, beverage, and tobacco products	311–12	5,438	5,282	0	156	0	0	0	0	0	0
Textile, apparel, and leather products	313–16	5,748	5,748	0	0	0	0	0	0	0	0
Wood products	321	10,390	10,390	0	0	0	0	0	0	0	0
Paper	322	0	0	0	0	0	0	0	0	0	0
Printing and related support activities	323	91	61	0	0	30	0	0	0	0	0
Petroleum and coal products	324	0	0	0	0	0	0	0	0	0	0
Chemicals	325	171,118	107,969	0	38,925	0	0	154	23,845	225	0
Pharmaceuticals and medicines	3254	42,297	31,267	0	2,686	0	0	74	8,220	50	0
Chemicals, excluding pharmaceuticals	other 325	128,821	76,702	0	36,239	0	0	80	15,625	176	0
Plastics and rubber products	326	20,770	20,466	0	304	0	0	0	0	0	0
Nonmetallic mineral products	327	4,070	3,899	0	170	0	0	0	0	0	0
Primary metals	331	855	419	0	0	0	0	0	435	0	0
Fabricated metal products	332	6,362	5,170	0	83	0	325	0	785	0	0
Machinery	333	39,207	19,121	0	2,458	0	50	0	17,465	113	0
Computer and electronic products	334	216,085	136,554	2,485	37,603	0	2,111	420	36,428	470	14
Semiconductor and other electronic components	3344	58,730	34,043	2,485	833	0	343	0	20,973	53	0
Navigational, measuring, electromedical, and control instruments	3345	127,231	73,698	0	36,492	0	1,768	420	14,437	417	0
Other computer and electronic products	other 334	30,125	28,814	0	279	0	0	0	1,018	0	14
Electrical equipment, appliances, and components	335	16,905	9,814	292	322	0	297	0	6,181	0	0
Transportation equipment	336	14,188	10,123	0	434	0	0	0	3,631	0	0
Aerospace products and parts	3364	5,483	1,417	0	434	0	0	0	3,631	0	0
Other transportation equipment	other 336	8,706	8,706	0	0	0	0	0	0	0	0
Furniture and related products	337	293	293	0	0	0	0	0	0	0	0
Miscellaneous manufacturing	339	45,755	18,796	8,512	12,603	0	918	0	4,644	283	0
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	5,386,477	4,290,097	153,410	282,926	35,116	32,791	21,455	556,700	13,559	423
Wholesale trade	42	174,079	158,788	0	0	8,826	109	0	6,357	0	0
Information	51	912,856	857,986	1,498	23,090	5,357	530	54	22,049	2,270	22
Software publishers	5112	747,100	704,088	926	13,425	5,016	282	0	21,565	1,776	22
Information, excluding software publishers	51 less 5112	165,755	153,898	572	9,665	341	247	54	484	494	0
Architectural, engineering, and related services	5413	595,681	457,784	10,906	71,773	1,146	0	420	52,698	955	0
Computer systems design and related services	5415	1,556,103	1,362,029	3,474	87,490	12,521	18,307	32	71,755	496	0
Scientific research and development services	5417	2,147,759	1,453,510	137,532	100,573	7,267	13,846	20,950	403,842	9,838	402
Research and development in nanotechnology	541713	96,618	41,136	6,353	8,572	983	2,032	267	36,697	346	232

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Research and development in biotechnology (except nanobiotechnology)	541714	883,444	649,887	55,080	37,561	2,444	5,269	r 9,024	122,325	1,783	71
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,155,371	754,141	76,099	53,691	3,840	6,544	11,463	242,353	7,141	98
Social sciences and humanities research and development	541720	12,326	8,346	r 0	748	0	0	196	r 2,467	r 568	0

r = relative standard error > 50%.

NAICS = 2022 North American Industry Classification System.

Note(s):
Detail may not add to total because of rounding or unavailable NAICS detail for select records beyond the 4-digit industry classification. Industry classification is based on dominant establishment payroll. Statistics are representative of companies located in the United States that performed or funded R&D.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, 2024 Annual Business Survey: Data Year 2023.