

Table 4

## Domestic R&amp;D performed by the company, by selected industry and source of funds, for companies with 1–9 employees: 2022

(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	5,710,570	4,397,991	194,028	297,357	40,302	20,741	13,423	694,536	35,873	16,319
Manufacturing industries	31–33	694,247	565,191	5,420	21,436	3,087	2,105	2,374	91,538	3,008	88
Food, beverage, and tobacco products	311–12	17,426	15,187	0	0	0	0	279	1,857	103	0
Textile, apparel, and leather products	313–16	9,268	9,268	0	0	0	0	0	0	0	0
Wood products	321	0	0	0	0	0	0	0	0	0	0
Paper	322	898	898	0	0	0	0	0	0	0	0
Printing and related support activities	323	0	0	0	0	0	0	0	0	0	0
Petroleum and coal products	324	159	159	0	0	0	0	0	0	0	0
Chemicals	325	168,564	144,654	264	8,547	570	941	1,751	11,414	421	0
Pharmaceuticals and medicines	3254	125,474	107,319	264	7,732	226	761	1,751	6,998	421	0
Chemicals, excluding pharmaceuticals	other 325	43,090	37,335	0	815	344	180	0	4,416	0	0
Plastics and rubber products	326	14,467	14,319	0	148	0	0	0	0	0	0
Nonmetallic mineral products	327	3,608	3,428	0	0	90	90	0	0	0	0
Primary metals	331	3,214	1,647	0	0	0	0	0	1,567	0	0
Fabricated metal products	332	44,875	27,397	0	2,601	0	0	0	14,877	0	0
Machinery	333	44,334	33,487	0	3,702	145	0	0	7,001	0	0
Computer and electronic products	334	171,928	136,511	3,211	4,576	260	226	222	26,446	389	88
Semiconductor and other electronic components	3344	46,427	30,786	3,211	1,978	253	226	212	9,285	389	88
Navigational, measuring, electromedical, and control instruments	3345	94,814	77,366	0	676	6	0	11	16,756	0	0
Other computer and electronic products	other 334	30,686	28,359	0	1,922	0	0	0	405	0	0
Electrical equipment, appliances, and components	335	14,597	10,458	1,849	282	44	0	0	1,954	10	0
Transportation equipment	336	36,738	22,765	0	960	0	0	0	11,575	1,438	0
Aerospace products and parts	3364	19,882	16,718	0	891	0	0	0	2,273	0	0
Other transportation equipment	other 336	16,856	6,047	0	69	0	0	0	9,301	1,438	0
Furniture and related products	337	212	212	0	0	0	0	0	0	0	0
Miscellaneous manufacturing	339	163,959	144,802	95	620	1,978	848	121	14,847	647	0
Selected nonmanufacturing industries	42, 51, 5413, 5415, 5417	5,016,323	3,832,799	188,608	275,920	37,215	18,636	11,049	602,999	32,865	16,232
Wholesale trade	42	305,962	233,624	18,378	4,944	12,901	1,197	0	33,300	417	1,202
Information	51	653,665	619,247	3,504	4,441	393	1,741	1,144	21,689	1,443	63
Software publishers	5112	478,466	451,836	1,629	3,186	393	1,736	0	18,740	945	0
Information, excluding software publishers	51 less 5112	175,199	167,411	1,875	1,255	0	5	1,144	2,949	498	63
Architectural, engineering, and related services	5413	388,846	267,509	3,434	49,089	1,405	837	510	60,927	3,532	1,604
Computer systems design and related services	5415	1,414,970	1,160,411	10,227	135,354	10,626	8,597	157	82,253	7,129	217

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Scientific research and development services	5417	2,252,879	1,552,008	153,066	82,094	11,891	6,263	9,238	404,830	20,343	13,147
Research and development in nanotechnology	541713	137,272	83,879	10,585	6,108	689	1,370	31	33,462	1,147	0
Research and development in biotechnology (except nanobiotechnology)	541714	1,010,361	787,852	65,332	25,881	3,946	1,169	3,957	107,984	9,476	4,763
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	1,085,263	664,206	77,148	49,140	7,256	3,544	4,211	261,653	9,720	8,384
Social sciences and humanities research and development	541720	19,984	16,070	0	964	0	180	1,038	1,731	0	0

r = relative standard error &gt; 50%.

NAICS = 2017 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, 2023 Annual Business Survey: Data Year 2022.