

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS code	Companies ^a						
		United States	Alabama	Alaska	Arizona	Arkansas	California	
All industries	21-23, 31-33, 42-81	50,062	282,570	1,299	37 e	4,307	277	85,750
Manufacturing industries	31-33	23,510	192,160	995	10 e	3,393	188	52,693
Food	311	1,403	5,071 i	12 e	4 e	7 e	43	229
Beverages and tobacco products	312	116	819	* e	* e	* e	* e	22
Textiles, apparel, and leather products	313-316	533	616	3 i	* e	* e	* e	72
Wood products	321	281	351 i	1 i	* e	* e	8 i	37 i
Paper	322	270	711	12 i	* e	* i	1 i	8 i
Printing and related support activities	323	306	232	* e	* e	* e	* e	61
Petroleum and coal products	324	107	229	D	D	D	D	35
Chemicals	325	2,585	56,488	91	1	191	47	12,309
Basic chemicals	3251	279	2,554	10	0	* e	11	188
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	239	1,136	1 e	0	2	17	24
Pesticides, fertilizers, and other agricultural chemicals	3253	148	1,327 i	D	D	7 i	4 i	58
Pharmaceuticals and medicines	3254	946	47,646	72	D	159	11	11,820
Soaps, cleaning compounds, and toilet preparations	3256	387	2,531	1 e	D	3 i	2	141
Paints, coatings, adhesives, and other chemicals	3255, 3259	586	1,294 i	D	0	20	1 e	79
Plastics and rubber products	326	1,414	3,416	9 i	* e	212	4 i	122
Nonmetallic mineral products	327	468	1,420 i	2 i	* e	2 i	1 e	140 i
Primary metals	331	253	615	4 i	0	1	4	8 i
Fabricated metal products	332	3,100	2,000	9 e	* e	14	6	136
Machinery	333	3,664	11,458	32	* e	96	10 e	2,316
Agricultural implements	33311	210	1,539	* e	0	4	* e	24 i
Semiconductor machinery	333295	86	2,821	1 e	0	37	0	1,848
Engines, turbines, and power transmission equipment	3336	96	2,285	7	0	D	* e	126
Other machinery	other 333	3,271	4,813	24	* e	D	9 e	319
Computer and electronic products	334	2,885	64,695	653	2	2,588	33 i	31,276
Communications equipment	3342	496	16,808	99	1	77	6	10,121 i
Semiconductors and other electronic components	3344	656	30,029	10	*	1,712	2 e	16,095
Navigational, measuring, electromedical, and control instruments	3345	1,330	10,576	28	* e	786	24 i	2,839
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	285	3,697	2 e	0	42 i	20 i	1,277
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	81	2,984	6	0	674	0	406
Other measuring and controlling devices	other 3345	965	3,895	20	* e	71 i	4	1,156
Other computer and electronic products	other 334	403	7,282	516	0	13	1	2,221

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Industry and company size	NAICS code	Companies ^a (number)	United States	Alabama	Alaska	Arizona	Arkansas	California
Electrical equipment, appliances, and components	335	1,448	4,178	17 e	*	22	11 e	641
Transportation equipment	336	1,520	27,261	123	2	150 i	10 e	2,168 i
Automobiles, bodies, trailers, and parts	3361-63	913	15,900	50	* e	23	3 e	605 i
Aerospace products and parts	3364	332	10,300	46	2	49	6	1,476
Aircraft, aircraft engines, and aircraft parts	336411-13	312	10,011	44	2	D	6	1,410
Guided missiles, space vehicles, and related parts	336414-15, 336419	20	289	2	0	D	0	66 i
Military armored vehicles, tanks, and tank components	336992	10	10	0	0	*	0	0
Other transportation	other 336	265	1,051	27	* e	77 i	1 e	86
Furniture and related products	337	683	369	8	* e	2 e	1 e	14 e
Miscellaneous	339	2,477	12,230	D	D	D	D	3,100
Medical equipment and supplies	3391	865	9,809	9 e	* e	80	2 e	2,784
Other miscellaneous manufacturing	3399	1,612	2,421	D	D	D	D	316 i
Nonmanufacturing industries	21-23, 42-81	26,552	90,409	304	27 e	915	88	33,057
Mining, extraction, and support activities	21	245	3,821	1 e	9	21	1 e	180
Utilities	22	88	258	15	* e	* e	* e	18
Wholesale trade	42	2,601	329 i	3 e	* e	2 e	1 e	40 e
Electronic shopping and electronic auctions	454111-12	173	1,388	D	* e	D	D	D
Transportation and warehousing	48-49	291	675	* e	* e	* e	* e	3 e
Information	51	3,991	62,296	118	4 e	394	48	27,599
Publishing	511	1,899	34,869	73	1	283	8 e	11,507
Newspaper, periodical, book, and directory publishers	5111	169	88 i	* e	* e	* e	* e	27 i
Software publishers	5112	1,729	34,781	73	1	283	8 e	11,480
Telecommunications	517	280	3,710	4 e	3 e	8 i	7 e	135
Data processing, hosting, and related services	518	1,244	8,926	40	* e	101	33	3,521
Other information	other 51	569	14,791	1 e	* e	2	* e	12,436
Finance and insurance	52	822	4,090	3	* e	296	24	160
Real estate and rental and leasing	53	45	262	* e	* e	* e	* e	80
Lessors of nonfinancial intangible assets (except copyrighted works)	533	13	55	0	0	0	0	46
Other real estate and rental and leasing	other 53	32	207	* e	* e	* e	* e	34
Professional, scientific, and technical services	54	12,672	16,061 i	151 i	12 e	190 i	11 e	3,367 i
Architectural, engineering, and related services	5413	1,978	1,503 i	13 e	5 e	13 e	2 e	149 i
Computer systems design and related services	5415	5,645	8,644 i	110	3 e	99 i	5 e	2,221 i
Scientific R&D services	5417	1,509	2,668	24 e	3 e	49	1 e	680
Biotechnology R&D	541711	473	692	* e	0	18 i	* e	218 i

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Industry and company size	NAICS code	Companies ^a						
		United States	Alabama	Alaska	Arizona	Arkansas	California	
Physical, engineering, and life sciences (except biotechnology) R&D	541712	1,007	1,950	23 e	3 e	31	1 e	457
Social sciences and humanities R&D	541720	29	26	* e	0	* e	* e	5
Other professional, scientific, and technical services	other 54	3,542	3,245 i	4 e	1 e	30 i	3 e	317
Health care services	621-23	1,115	439 i	3	* e	4 i	* e	194
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	4,509	791 i	D	1 e	D	D	D
All companies (number of domestic employees)	-	50,062	282,570	1,299	37 e	4,307	277	85,750
Small companies ^b								
5-499	-	47,801	42,889	298 e	24 e	555	96 e	10,899
5-99	-	41,845	21,695 i	181 e	20 e	250 e	66 e	5,213
5-49	-	35,918	14,169 i	133 e	17 e	163 e	46 e	3,078 i
5-9	-	12,279	2,426 i	32 e	6 e	29 e	13 e	454 e
10-24	-	14,629	5,506 i	50 e	6 e	71 e	18 e	1,194 i
25-49	-	9,010	6,237 i	51 e	6 e	63 e	16 e	1,430
50-99	-	5,927	7,526	48 e	2 e	87 i	20 e	2,135
100-249	-	4,523	11,006	50	4 e	150	10 e	3,352
250-499	-	1,433	10,188	68	1 e	154	20 i	2,334
Medium and large companies								
500-999	-	883	11,736	34	1	68	9	3,328
1,000-4,999	-	899	47,807	270	D	485	34	17,960
5,000-9,999	-	178	30,680	64	D	512	8	13,565
10,000-24,999	-	192	46,904	38	8	549	44	11,531
25,000 or more	-	108	102,555	596	2	2,138	85	28,469

Industry and company size	NAICS codes	Companies ^a						
		Colorado	Connecticut	Delaware	District of Columbia	Florida	Georgia	Hawaii
All industries	21-23, 31-33, 42-81	3,829	6,819	1,839 i	183	3,877	3,843	138 i
Manufacturing industries	31-33	2,689	6,326	1,561 i	44	2,065	2,160	105 i
Food	311	68	26	974 i	* e	43	33 e	4 e
Beverages and tobacco products	312	* e	18	* e	* e	8	D	* e
Textiles, apparel, and leather products	313-16	1 e	2 i	* e	* e	4 i	60	* e
Wood products	321	* e	* e	* e	0	* e	12 i	* e
Paper	322	* i	8 i	1	0	17 i	67	* e
Printing and related support activities	323	4	1 e	* e	* e	2 e	2	* e
Petroleum and coal products	324	9	2	D	* e	4	1	* e
Chemicals	325	164	4,286	415	17	415	347	68 i
Basic chemicals	3251	49	40	44	* e	35	46	0
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	* e	2	14	0	2	58	0

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Industry and company size	NAICS codes	Colorado	Connecticut	Delaware	District of Columbia	Florida	Georgia	Hawaii
Pesticides, fertilizers, and other agricultural chemicals	3253	D	2	D	1 i	10	5 i	D
Pharmaceuticals and medicines	3254	95	4,040	356	16	330	215	D
Soaps, cleaning compounds, and toilet preparations	3256	2 e	173	* e	0	21	14	D
Paints, coatings, adhesives, and other chemicals	3255, 3259	D	29	D	* e	17	9 i	* e
Plastics and rubber products	326	20	78	34	0	12	21	14
Nonmetallic mineral products	327	2 e	1 e	* e	* e	16	15	*
Primary metals	331	5	1 i	4	0	* e	2	* e
Fabricated metal products	332	14	68	1 e	* e	29	49 i	* e
Machinery	333	78	240	* e	0	120	110	1
Agricultural implements	33311	2	* e	* e	0	* e	24	0
Semiconductor machinery	333295	10 i	11	0	0	10	0	0
Engine, turbine, and power transmission equipment	3336	7	D	0	0	32	D	0
Other machinery	other 333	59	D	* e	0	79	D	1
Computer and electronic products	334	1,827	280	100 i	26	730	876	13
Communications equipment	3342	348	56	81 i	20	333 i	489	12
Semiconductors and other electronic components	3344	675	10 e	4	*	159	70	*
Navigational, measuring, electromedical, and control instruments	3345	284	206 i	15	* e	229	292	1 i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	35 i	97 i	* e	0	116 i	29 i	* i
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	106	15	* e	* e	43	26	0
Other measuring and controlling devices	other 3345	143	94 i	15	0	71	237	* e
Other computer and electronic products	other 334	522	9	0	5 i	8	25	1
Electrical equipment, appliances, and components	335	23	78	3	* e	77	99	0
Transportation equipment	336	220	964	4 e	0	379	210 i	2
Automobiles, bodies, trailers, and parts	3361-63	2 e	13	* e	0	8 e	14 e	* e
Aerospace products and parts	3364	204	940	4 e	0	348	54	1
Aircraft, aircraft engines, and aircraft parts	336411-13	116	929	4 e	0	346	54	1
Guided missiles, space vehicles, and related parts	336414-15, 336419	88	11	0	0	2	0	0
Military armored vehicles, tanks, and tank components	336992	5	0	0	0	* i	0	0
Other transportation	other 336	9	11 i	* e	0	23 i	142 i	* e
Furniture and related products	337	22	1 e	3	* e	3 e	14	* e
Miscellaneous	339	232	272	D	* e	206	D	1 e
Medical equipment and supplies	3391	190	256	20	*	193	98	1 e

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5-499	-	883	624	600	77 e	998 e	753 i	49 e
5-99	-	350 e	333 e	58 e	66 e	579 e	450 e	36 e
5-49	-	243 e	233 e	47 e	46 e	397 e	296 e	32 e
5-9	-	46 e	32 e	17	10 e	81 e	57 e	7 e
10-24	-	94 e	90 e	20 e	18 e	167 e	111 e	14 i
25-49	-	103 e	112 i	10 e	18 e	148 e	128 e	11 e
50-99	-	108	100 i	11 e	20	182 e	155	5 e
100-249	-	275	154	27	11 e	185	185	12
250-499	-	257	136	515	1 e	233	117	1
Medium and large companies								
500-999	-	137	118	4	18	249	266	8
1,000-4,999	-	881	662	57	30	468	880	8
5,000-9,999	-	563	811	43	5	483	154	1 i
10,000-24,999	-	561	1,246	35	27	773	250	67 i
25,000 or more	-	804	3,358	1,100 i	26	906	1,540	6

Industry and company size	NAICS codes	Idaho	Illinois	Indiana	Iowa	Kansas	Kentucky	Louisiana
All industries	21-23, 31-33, 42-81	1,223	11,196	5,015	1,513	1,325	768	299
Manufacturing industries	31-33	1,157	9,536	4,793	1,378	1,135	649	195
Food	311	56	286	30 e	53	26	22	14 e
Beverages and tobacco products	312	* e	D	* e	* e	* e	27	* e
Textiles, apparel, and leather products	313-16	* e	5	1 e	1 i	* e	3	* e
Wood products	321	3 i	1 i	* e	14 i	1 i	* e	1 i
Paper	322	* e	7 i	2 i	* e	6	2 i	7 i
Printing and related support activities	323	1 i	8 i	2 e	2 i	1 e	* e	1
Petroleum and coal products	324	* e	6 i	1	D	4	2	D
Chemicals	325	19	4,445	2,180	151	216	335	68
Basic chemicals	3251	* e	168	23	48	12	36	41
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	* e	74	3	D	8	15	16
Pesticides, fertilizers, and other agricultural chemicals	3253	3	D	8 i	D	7 i	D	D
Pharmaceuticals and medicines	3254	15	3,991	2,124	42	60	12	7
Soaps, cleaning compounds, and toilet preparations	3256	2 e	94	5 e	D	62 i	1 e	1 e
Paints, coatings, adhesives, and other chemicals	3255, 3259	* e	D	18	1 e	67	D	D
Plastics and rubber products	326	2 i	65	394	33	8	23	29
Nonmetallic mineral products	327	1	32	6	4	1 e	2 e	2 e
Primary metals	331	* e	16	32	21	* e	2 i	* e
Fabricated metal products	332	2 e	152	68	14 i	22	17	6 e
Machinery	333	9 e	1,833	291	751	140	38	33
Agricultural implements	33311	1 i	321	2 i	693	94	* e	15
Semiconductor machinery	333295	3 e	* e	0	0	0	0	0

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Industry and company size	NAICS codes	Idaho	Illinois	Indiana	Iowa	Kansas	Kentucky	Louisiana
Engines, turbines, and power transmission equipment	3336	*	D	151	2	D	* e	* e
Other machinery	other 333	5 i	D	138	56	D	38	17 i
Computer and electronic products	334	1,049	1,356 i	159	271	360	42	15
Communications equipment	3342	16	793 i	70	14	25	6	7
Semiconductors and other electronic components	3344	949	164	21	26	6 i	5	* e
Navigational, measuring, electromedical, and control instruments	3345	5	290	57	230	220	18 i	7 e
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	* e	110 i	14	7 i	4	8 i	1 i
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	* e	126	21	197	212	2	2
Other measuring and controlling devices	other 3345	5	54 i	21 i	25 i	4 i	7 i	4 e
Other computer and electronic products	other 334	79	109	10 i	1	109	13	* e
Electrical equipment, appliances, and components	335	3 e	206	49	21	7 e	7 e	5 e
Transportation equipment	336	5 e	605	1,003	11 e	331	110	9 e
Automobiles, bodies, trailers, and parts	3361-3363	1 e	324	921	8 e	29	D	2 e
Aerospace products and parts	3364	3 e	255	75	2	302	D	3
Aircraft, aircraft engines, and aircraft parts	336411-13	3 e	255	75	2	302	D	3
Guided missiles, space vehicles, and related parts	336414-15, 336419	0	0	0	0	0	0	0
Military armored vehicles, tanks, and tank components	336992	0	* i	0	0	0	0	0
Other transportation	other 336	1	26	7 i	* e	* e	* e	4 e
Furniture and related products	337	1 e	10 i	32	23	2 i	7	1 e
Miscellaneous	339	6	D	544	D	10 e	11 e	D
Medical equipment and supplies	3391	2 e	160	526	4 e	5 e	6 e	2 e
Other miscellaneous manufacturing	3399	4	D	17	D	5	5 i	D
Nonmanufacturing industries	21-23, 42-81	66 i	1,660	221	135	190	118 i	104 e
Mining, extraction, and support activities	21	3 i	1 e	7	* e	4	2 e	11 e
Utilities	22	4	1 e	* e	5	1 i	* e	10
Wholesale trade	42	1 e	15 e	4 e	3 e	2 e	4 i	2 e
Electronic shopping and electronic auctions	454111-12	D	2 e	D	D	D	D	D
Transportation and warehousing	48-49	* e	1 e	1 e	* e	* e	* e	1 e
Information	51	34	573	126	92	88	37	26 e
Publishing	511	17 e	293	86	34	45	19	14
Newspaper, periodical, book, and directory publishers	5111	* e	1 e	* e	* e	* e	* e	* e
Software publishers	5112	17 e	293	86	34	45	19	14
Telecommunications	517	2 e	59	9 e	9 e	27	7 e	3 e

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Industry and company size	NAICS codes	Idaho	Illinois	Indiana	Iowa	Kansas	Kentucky	Louisiana
Data processing, hosting, and related services	518	15	181	29	36	11	10 e	7 e
Other information	other 51	* e	40	1 e	13	5	1 e	1 e
Finance and insurance	52	1	656	1 e	1 e	2	1	1 e
Real estate and rental and leasing	53	* e	14	* e	*	* e	* e	1 i
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	* i	0	*	0	0	0
Other real estate and rental and leasing	other 53	* e	14	* e	* e	* e	* e	1 i
Professional, scientific, and technical services	54	21 i	371 i	66 e	30 e	88 i	54 e	46 e
Architectural, engineering, and related services	5413	8	33 e	12 e	5 e	6 e	6 e	25 i
Computer systems design and related services	5415	8 e	163 e	35 e	17 e	46 i	17 e	12 e
Scientific R&D services	5417	4	42	12 e	5 e	6 e	26	3 e
Biotechnology R&D	541711	* e	17	2 e	2 e	* e	3 e	* e
Physical, engineering, and life sciences (except biotechnology) R&D	541712	4	25	11	3 e	6 e	22	2 e
Social sciences and humanities R&D	541720	0	* e	* e	0	0	* e	* e
Other professional, scientific, and technical services	other 54	1 e	134	6 e	3 e	31	5 e	6 e
Health care services	621-23	* e	5	1 e	* e	1 e	1 e	1 e
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	20	D	D	D	D	D
All companies (number of domestic employees)	-	1,223	11,196	5,015	1,513	1,325	768	299
Small companies ^b								
5-499	-	108 e	1,526 i	555 i	319	217 e	186 e	157 e
5-99	-	71 e	814 e	305 e	136 e	127 e	113 e	102 e
5-49	-	47 e	544 e	185 e	109 e	99 e	85 e	74 e
5-9	-	11 e	103 e	35 e	20 e	22 e	17 e	20 e
10-24	-	17 e	193 e	77 e	46 e	41 e	32 e	27 e
25-49	-	19 e	248 e	73 e	43 e	37 e	36 e	27 e
50-99	-	24 i	269 e	120 e	27 e	28 e	27 e	28 e
100-249	-	29	408	104 i	121	39 i	33 i	46
250-499	-	9	305	146	61	51	40	9
Medium and large companies								
500-999	-	5	358	82	58	38	31	4
1,000-4,999	-	77	1,400	654	94	350	375	68
5,000-9,999	-	753	649 i	414	55	200	24	2
10,000-24,999	-	13	4,390	3,056	307	373	24	40
25,000 or more	-	267	2,872	253	681	148	127	28

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Industry and company size	NAICS codes	Maine	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri
All industries	21-23, 31-33, 42-81	308	3,445	17,101	15,421	6,403	198	4,037
Manufacturing industries	31-33	241	2,215	12,580	14,811	5,348	159	3,038
Food	311	5 e	58	43 e	314	365	15 e	39
Beverages and tobacco products	312	* e	* e	11	* e	* e	* e	22
Textiles, apparel, and leather products	313-16	1 e	1 e	34	40	9	* e	2 i
Wood products	321	* e	* e	3	1 i	81 i	6 i	1 i
Paper	322	12	5	21	3 i	5	1 i	2 i
Printing and related support activities	323	* e	1 e	3 i	9 i	9	* e	1 e
Petroleum and coal products	324	D	D	2	1 i	D	D	* i
Chemicals	325	15 i	1,028 i	7,570	423	329	30 i	1,545 i
Basic chemicals	3251	* e	58	108	68	26	6	D
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	* e	* e	23	215	8	* i	D
Pesticides, fertilizers, and other agricultural chemicals	3253	3 i	3 i	9 i	5	10 i	D	D
Pharmaceuticals and medicines	3254	12 i	947 i	7,296	93	168	4	784
Soaps, cleaning compounds, and toilet preparations	3256	* e	19	116	7	87	1 e	D
Paints, coatings, adhesives, and other chemicals	3255, 3259	* e	1 e	19 i	35	30 i	D	D
Plastics and rubber products	326	1 e	103	141	501	125	5	17
Nonmetallic mineral products	327	* e	4	73	42	9	3	4 i
Primary metals	331	* e	10	2 i	34	14	1	6
Fabricated metal products	332	1 e	11	48	117	51 i	3 e	39
Machinery	333	4 e	166	316	346 i	386	21	95
Agricultural implements	33311	* e	1 i	* e	4	97 i	* e	* e
Semiconductor machinery	333295	0	1 e	214	* e	10 i	0	0
Engines, turbines, and power transmission equipment	3336	1	*	9	16	29	* e	2
Other machinery	other 333	3 e	164	92	326 i	249	21	92
Computer and electronic products	334	72 i	371	3,031	241	1,050	19	112
Communications equipment	3342	3	265	350	51	86 i	5	36
Semiconductors and other electronic components	3344	65 i	38	1,064	23	90	1 e	57
Navigational, measuring, electromedical, and control instruments	3345	2 e	49	1,075	105	291	12	18 i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	1 i	33	521	20 i	31	4	1 i

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	Maine	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	0	10	194	17	134	* e	1 e
Other measuring and controlling devices	other 3345	1 e	5 e	360	67	125	7	17 i
Other computer and electronic products	other 334	2	20	541	62 i	583	1 e	1 e
Electrical equipment, appliances, and components	335	1 e	18	248	533	134	34 e	85
Transportation equipment	336	34	325	341	11,874	342	15	880
Automobiles, bodies, trailers, and parts	3361-63	1 e	49	84	11,645	125 i	13	D
Aerospace products and parts	3364	30	262	236	112	50	1	D
Aircraft, aircraft engines, and aircraft parts	336411-13	D	261	236	112	D	1	D
Guided missiles, space vehicles, and related parts	336414-15, 336419	D	* i	*	0	D	0	3
Military armored vehicles, tanks, and tank components	336992	0	0	2	0	2	0	0
Other transportation	other 336	3 i	14	18	117	164	1	8
Furniture and related products	337	1 e	1 e	1 e	78	23	3 i	2 e
Miscellaneous	339	D	D	693	254	D	D	188
Medical equipment and supplies	3391	91	104	610	232	2,406	2 e	180
Other miscellaneous manufacturing	3399	D	D	83	21 i	D	D	8 i
Nonmanufacturing industries	21-23, 42-81	66 i	1,230	4,520	610	1,055	39	999 i
Mining, extraction, and support activities	21	1	* e	D	13	2	4	1 e
Utilities	22	* e	*	* e	2	* e	2	2
Wholesale trade	42	1 e	3 e	6 e	6 e	9 i	3	4 e
Electronic shopping and electronic auctions	454111-12	D	D	3 i	D	D	D	D
Transportation and warehousing	48-49	* e	341	1 e	D	1 e	* e	1 e
Information	51	39 i	353	3,275	315	708	15	201
Publishing	511	29	196	2,440	214	560	8	71
Newspaper, periodical, book, and directory publishers	5111	* e	1 i	7 i	* e	1 e	* e	2 i
Software publishers	5112	29	196	2,433	213	560	8	68
Telecommunications	517	6 e	19	18	8 e	8 e	2 e	6 e
Data processing, hosting, and related services	518	4 e	133	561	88	130	5	119
Other information	other 51	* e	5	257	5	10	1 e	5
Finance and insurance	52	1	11	81	11	6	1 i	14
Real estate and rental and leasing	53	* e	1 i	3	* e	1 i	* e	* i
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	0	* i	0	1 i	0	* i
Other real estate and rental and leasing	other 53	* e	1 i	3	* e	* e	* e	* e
Professional, scientific, and technical services	54	21 i	511 e	967	253 i	316 i	13 e	762 i
Architectural, engineering, and related services	5413	4 i	32 i	32 i	45 i	11 e	3 e	11 e

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	Maine	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri
Computer systems design and related services	5415	15 i	254 e	392 i	103 e	154 i	3 e	700 i
Scientific R&D services	5417	2 e	128 e	373	75	53	6	38
Biotechnology R&D	541711	1 e	38	D	14	5	0	2 e
Physical, engineering, and life sciences (except biotechnology) R&D	541712	1 e	90 e	211 i	61	48	6	36
Social sciences and humanities R&D	541720	* e	* e	D	* i	* e	0	0
Other professional, scientific, and technical services	other 54	1 e	96	170 i	30 i	98	1 e	13 e
Health care services	621-23	1 i	2	10	2 e	1 e	* e	4
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	D	D	7 e	D	D	D
All companies (number of domestic employees)	-	308	3,445	17,101	15,421	6,403	198	4,037
Small companies ^b								
5-499	-	67 e	822	3,597	1,267 i	1,039	87 e	430 i
5-99	-	51 e	547 e	1,801	653 e	489 e	69 e	217 e
5-49	-	32 e	432 e	1,121	438 e	314 e	44 e	141 e
5-9	-	8 e	87 e	139 e	71 e	55 e	10 e	28 e
10-24	-	14 e	153 e	409 i	192 e	113 e	21 e	57 e
25-49	-	10 e	191 e	574	175 e	145 i	13 e	55 e
50-99	-	18 i	115 e	680	215 i	175	25 e	76 e
100-249	-	15	141	764	317	234	14 e	107
250-499	-	1 e	135	1,031	296	317	4 e	107
Medium and large companies								
500-999	-	4	142	984	413	429	6	21
1,000-4,999	-	178	1,096 i	5,042	1,435	837	27	405
5,000-9,999	-	8 i	162	1,729 i	469	805	4	267
10,000-24,999	-	39	487	2,044	1,927	2,003	46 i	1,541 i
25,000 or more	-	11	735	3,705	9,910	1,290	28	1,373
Industry and company size	NAICS codes	Montana	Nebraska	Nevada	New Hampshire	New Jersey	New Mexico	New York
All industries	21-23, 31-33, 42-81	188	543	576	869	11,027	270	10,794
Manufacturing industries	31-33	115	247	462	473	8,297	173	6,183
Food	311	1 e	97	3 e	4	322	2 e	105
Beverages and tobacco products	312	* e	* e	* e	* e	* e	* e	D
Textiles, apparel, and leather products	313-16	2	* e	1	14	6 i	* e	40 i
Wood products	321	* e	* e	* e	* e	6 i	* e	* e
Paper	322	* e	2	* e	1	15 i	* e	18 i
Printing and related support activities	323	* i	* e	* e	* e	8	* e	11

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	Montana	Nebraska	Nevada	New Hampshire	New Jersey	New Mexico	New York
Petroleum and coal products	324	D	* e	D	D	70	D	1 i
Chemicals	325	7	39 i	12 i	20	6,071	33	2,268
Basic chemicals	3251	* e	2 e	* e	3	236	15	129
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	0	D	* e	1 i	3 i	0	53
Pesticides, fertilizers, and other agricultural chemicals	3253	D	D	D	0	D	D	2
Pharmaceuticals and medicines	3254	5	35 i	3 e	14	5,338	17	1,869
Soaps, cleaning compound,s and toilet preparations	3256	* e	D	D	* e	330 i	D	205
Paints, coatings, adhesives, and other chemicals	3255, 3259	D	* e	D	1	D	* e	9 i
Plastics and rubber products	326	* e	13	1 e	6 i	53 i	* e	75
Nonmetallic mineral products	327	1	1 e	5	8	24	* e	727 i
Primary metals	331	* e	* e	1	8 i	3	* e	7
Fabricated metal products	332	1 e	7	4	11	89	1 e	57 i
Machinery	333	D	33	4 e	51	103 i	15	459
Agricultural implements	33311	* e	24	0	10	* e	* e	* e
Semiconductor machinery	333295	D	0	* e	2 e	62 i	9	58
Engines, turbine, and power transmission equipment	3336	* e	*	* e	*	1	1	33
Other machinery	other 333	1 e	8	4 e	39	40	5 i	368
Computer and electronic products	334	8	34	42	274	1,036	92	938
Communications equipment	3342	2	4	13	89	591 i	5	305 i
Semiconductors and other electronic components	3344	3	4	1 e	99	225	57	141
Navigational, measuring, electromedical, and control instruments	3345	3	21	23 i	68	204	26	479
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	* e	0	8 i	37	45 i	* e	167
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	* e	10	11	16	86	12	232
Other measuring and controlling devices	other 3345	3	12	4 e	15	72 i	14	80
Other computer and electronic products	other 334	* e	5	5	17	16	4	14 e
Electrical equipment, appliances, and components	335	5	5 e	15	11 e	75	4	101
Transportation equipment	336	6 i	12	29	25	99	22	899
Automobiles, bodies, trailers, and parts	3361-63	1 e	9	* e	4	18	*	176
Aerospace products and parts	3364	5 i	2 e	28	15	72	22	705
Aircraft, aircraft engines, and aircraft parts	336411-13	D	2 e	28	15	72	22	705
Guided missiles, space vehicles, and related parts	336414-15, 336419	D	0	0	0	0	* i	0

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	Montana	Nebraska	Nevada	New Hampshire	New Jersey	New Mexico	New York
Military armored vehicles, tanks, and tank components	336992	0	0	0	*	0	0	0
Other transportation	other 336	* e	1 i	* e	6	10	0	17
Furniture and related products	337	* e	* e	* e	* e	3 e	* e	13 i
Miscellaneous	339	D	3 e	D	D	314	D	D
Medical equipment and supplies	3391	3 e	2 e	2 e	30	298	2 e	188
Other miscellaneous manufacturing	3399	D	1 e	D	D	16 i	D	D
Nonmanufacturing industries	21-23, 42-81	73	297 i	114	396	2,730 i	97 i	4,612
Mining, extraction, and support activities	21	8	1	4	1	D	5	3
Utilities	22	* e	* e	*	* e	4	* i	8
Wholesale trade	42	* e	1 e	1 e	2 i	24 i	1 e	21 e
Electronic shopping and electronic auctions	454111-12	D	D	D	D	D	D	5 e
Transportation and warehousing	48-49	* e	* e	* e	* e	1 e	* e	2 e
Information	51	48	214 i	59	234	944	24	3,337
Publishing	511	6	24 e	43	157	445 i	10 e	2,065
Newspaper, periodical, book, and directory publishers	5111	* e	* e	* i	* e	1 e	* e	2 e
Software publishers	5112	6	24 e	43	156	444 i	10 e	2,063
Telecommunications	517	3 e	5 e	3 e	7 e	350	2 e	79 e
Data processing, hosting, and related services	518	38	173 i	11 i	70	116	2 e	466
Other information	other 51	* e	12	1 e	1 e	33	9	727
Finance and insurance	52	*	29	1	*	139	*	673
Real estate and rental and leasing	53	* e	* e	1	* e	* e	* e	2 i
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	* i	0	0	0	* i	1 i
Other real estate and rental and leasing	other 53	* e	* e	1	* e	* e	* e	1 e
Professional, scientific, and technical services	54	15 i	39 i	43 e	157	1,343 i	65 i	509 e
Architectural, engineering, and related services	5413	6	3 e	6 i	9	28 i	6 i	41 e
Computer systems design and related services	5415	3 e	23 i	14 e	109	488 i	19 i	284 e
Scientific R&D services	5417	4 e	3 e	19	37	99	25	92
Biotechnology R&D	541711	* e	1 e	* e	18	28	5	34 i
Physical, engineering, and life sciences (except biotechnology) R&D	541712	3 e	2 e	19	19	72	20	58
Social sciences and humanities R&D	541720	* e	0	* e	0	* e	* e	* e
Other professional, scientific, and technical services	other 54	2	11	4 e	2 e	728 i	16 i	91 e

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	New						
		Montana	Nebraska	Nevada	Hampshire	New Jersey	New Mexico	New York
Health care services	621-23	* e	2	* e	* e	2 e	* e	5 e
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	D	D	D	D	D	48
All companies (number of domestic employees)	-	188	543	576	869	11,027	270	10,794
Small companies ^b								
5-499	-	70	141 e	147	293	1,452	132 i	1,768 i
5-99	-	27 e	77 e	89 e	185 i	856 e	107 i	1,015 e
5-49	-	23 e	50 e	66 e	77 e	585 e	74 i	725 e
5-9	-	4 e	12 e	11 e	15 e	85 e	9 e	129 e
10-24	-	9 e	20 e	33 e	30 e	236 e	34 i	287 e
25-49	-	10 e	18 e	22 e	33 e	263 e	31 i	309 e
50-99	-	4 e	27 i	22 e	108	271	33	290 e
100-249	-	38	31 i	31	64	434	20	318
250-499	-	5	33	27	43	162	5	434
Medium and large companies								
500-999	-	17	38	11	162	269	1 e	559
1,000-4,999	-	6	183 i	341	239	1,532	13	1,285
5,000-9,999	-	78	54	13	21 i	995 i	19	1,388 i
10,000-24,999	-	14 i	23	18 i	61	1,777	20	1,780 i
25,000 or more	-	3	104	47	94	5,001	86	4,015
Industry and company size	NAICS codes	North Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania	Rhode Island
All industries	21-23, 31-33, 42-81	6,125	247	6,137	543	6,160	9,635	479
Manufacturing industries	31-33	4,207	98	5,434	332	5,361	7,752	386
Food	311	241 i	4 e	133	14	23 e	133	3 e
Beverages and tobacco products	312	58	* e	* e	* e	* e	1 i	* e
Textiles, apparel, and leather products	313-16	64 i	* e	72	* e	33	4 e	3
Wood products	321	5 i	19 i	1 i	1 i	26 i	1 e	2
Paper	322	15 i	* e	25	* e	* e	25	5
Printing and related support activities	323	2 i	* e	10	* e	3	4 i	*
Petroleum and coal products	324	2	D	6 i	D	4	16	D
Chemicals	325	1,378	3	2,142	62	49	4,621	58 i
Basic chemicals	3251	128 i	* e	266	25	* e	101	1
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	12	0	295	6	4	26	7
Pesticides, fertilizers, and other agricultural chemicals	3253	51 i	1 i	33	D	D	12 i	0
Pharmaceuticals and medicines	3254	1,120	2	362	28	40	4,251	47 i
Soaps, cleaning compounds, and toilet preparations	3256	28	* e	1,092	* e	1 e	7 e	1 e
Paints, coatings, adhesives, and other chemicals	3255, 3259	40	* e	93	D	D	224	2
Plastics and rubber products	326	63	2	121	46	17	248	11

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	North						Rhode Island
		Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania	
Nonmetallic mineral products	327	12	2	44	2 e	4	74	* e
Primary metals	331	21	* e	28	1 e	15	188	1
Fabricated metal products	332	23	1 e	184	7 e	70	72 i	11
Machinery	333	176	57	492	40	200	331	9
Agricultural implements	33311	56	49	3	*	1 i	56	0
Semiconductor machinery	333295	0	0	2 e	0	100	7	0
Engines, turbine, and power transmission equipment	3336	66	1	20	* e	3	19	1 i
Other machinery	other 333	54	6 i	467	39	97	249	9
Computer and electronic products	334	1,604	1 e	670	42 i	4,302	1,076	92
Communications equipment	3342	605	* e	122 i	11	41	355	3
Semiconductors and other electronic components	3344	630	* e	85	2 e	4,085	265	23
Navigational, measuring, electromedical, and control instruments	3345	162	1 e	404 i	28 i	111	337	49
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	35 i	0	153	1	17 i	242	18
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	49	0	28	3	60	33	14
Other measuring and controlling devices	other 3345	78	1 e	223 i	24 i	34	62	17
Other computer and electronic products	other 334	206	* e	59	1 i	65	119	16
Electrical equipment, appliances, and components	335	156	1 e	95	12 e	46	296	5 e
Transportation equipment	336	180	6	1,195	39	209	418	2 e
Automobiles, bodies, trailers, and parts	3361-63	135	1 e	294	10 e	189	123	1 e
Aerospace products and parts	3364	39	4	900	29	19	287	*
Aircraft, aircraft engines, and aircraft parts	336411-13	39	4	896	29	19	D	*
Guided missiles, space vehicles, and related parts	336414-15, 336419	0	0	4	0	0	D	0
Military armored vehicles, tanks, and tank components	336992	0	0	*	0	*	0	0
Other transportation	other 336	7	* e	1 e	* e	2 e	8	1 e
Furniture and related products	337	21	* e	9 i	1 e	3 i	10	1 e
Miscellaneous	339	187	D	207	D	357	235	D
Medical equipment and supplies	3391	156	1 e	124	5	28	163	37
Other miscellaneous manufacturing	3399	31	D	83	D	328	72 i	D
Nonmanufacturing industries	21-23, 42-81	1,918	149	703	211	798	1,883	93
Mining, extraction, and support activities	21	4	3 e	7	112	* e	22	* e
Utilities	22	60	* e	21	* e	1 i	16	* e
Wholesale trade	42	12 i	1 e	14 i	3 e	3 e	8 e	1 i
Electronic shopping and electronic auctions	454111-12	D	D	D	D	D	3 i	D
Transportation and warehousing	48-49	1 e	* e	3 i	* e	7	33 i	* e
Information	51	1,411	92	347	51	619	889	61

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	North						Rhode
		Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania	Island
Publishing	511	1,223	86	266	18	383	622	55
Newspaper, periodical, book, and directory publishers	5111	1 i	* e	* e	* e	* e	2 i	* e
Software publishers	5112	1,222	86	266	18	383	621	55
Telecommunications	517	62	4 e	13 e	7 e	7 e	51	1 e
Data processing, hosting, and related services	518	103	2 e	65	10 e	210	122	5
Other information	other 51	23	* e	3 e	16	18	94	* e
Finance and insurance	52	148	* e	23	1 e	1	156	9
Real estate and rental and leasing	53	* e	* e	* e	* e	5	1 i	* e
Lessors of nonfinancial intangible assets (except copyrighted works)	533	*	0	* i	0	5	0	0
Other real estate and rental and leasing	other 53	* e	* e	* e	* e	* e	1 i	* e
Professional, scientific, and technical services	54	254 i	52 i	264 i	39 e	149	732 i	15 e
Architectural, engineering, and related services	5413	45	10	22 e	8 e	61	116	2 e
Computer systems design and related services	5415	156 i	34 i	125 e	11 e	45 i	425 i	8 e
Scientific R&D services	5417	40	5	68	5 e	16 i	138	4 e
Biotechnology R&D	541711	9	* e	1 e	1 e	1 e	31 i	1 e
Physical, engineering, and life sciences (except biotechnology) R&D	541712	28 e	5	67	4 e	14 i	106	3 e
Social sciences and humanities R&D	541720	3	0	* e	0	1 i	* i	0
Other professional, scientific, and technical services	other 54	13 e	3	49	15	27	53	2 e
Health care services	621-23	12	* e	5 i	1 e	3	2 e	* e
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	D	D	D	D	21 i	D
All companies (number of domestic employees)	-	6,125	247	6,137	543	6,160	9,635	479
Small companies ^b								
5-499	-	719 i	52 e	1,111 i	163 e	536	1,421	116 i
5-99	-	455 e	27 e	663 e	106 e	227 e	779 e	74 e
5-49	-	307 e	21 e	447 e	78 e	144 e	517 e	60 e
5-9	-	53 e	6 e	80 e	18 e	30 e	108 e	8 e
10-24	-	121 e	10 e	171 e	36 e	50 e	218 e	21 e
25-49	-	134 e	6 e	196 e	24 e	65 e	191 e	32 i
50-99	-	148 i	6 e	216 e	27 e	83	262 i	13 e
100-249	-	141 i	19	256	40	99	376	28

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	North						Rhode
		Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania	Island
250-499	-	122	6	192	17	210	266	15
Medium and large companies								
500-999	-	466	32 i	243	33	133	350	9
1,000-4,999	-	892	27 i	824	74	754	1,395	294
5,000-9,999	-	920	*	503	18	119	869	3
10,000-24,999	-	1,339	29	735	149	406	2,788	28
25,000 or more	-	1,790	107	2,723	106	4,212	2,812	29
Industry and company size	NAICS codes	South						Virginia
		Carolina	South Dakota	Tennessee	Texas	Utah	Vermont	
All industries	21-23, 31-33, 42-81	936	121	1,365	13,674	2,275	259	2,877
Manufacturing industries	31-33	669	91	1,049	7,841	914	120	1,405
Food	311	7 e	6 e	55	70 e	12 e	3 e	217 i
Beverages and tobacco products	312	* e	* e	3	128	2	* e	95
Textiles, apparel, and leather products	313-16	71	* e	2 e	7	* e	2	1 e
Wood products	321	14 i	* e	7 i	2 i	* e	* i	10 i
Paper	322	43	* e	7	3 i	1	* e	39 i
Printing and related support activities	323	* e	* e	8	2 e	1 i	* e	7
Petroleum and coal products	324	D	* e	D	2 e	D	0	1
Chemicals	325	76	17	273	937	136	34	294
Basic chemicals	3251	14	13	197	162	6	* i	129
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	21	* e	28	88	D	0	18
Pesticides, fertilizers, and other agricultural chemicals	3253	D	3 i	4 i	9 i	D	* e	3
Pharmaceuticals and medicines	3254	25	D	33	588	127	26	138
Soaps, cleaning compounds, and toilet preparations	3256	5 e	D	6 e	62	D	7 i	4
Paints, coatings, adhesives, and other chemicals	3255, 3259	D	* e	6 i	29 i	D	* e	2 e
Plastics and rubber products	326	78 i	3	27	329	4 i	* e	27
Nonmetallic mineral products	327	6 i	1 e	3 i	14	1 e	5	3 e
Primary metals	331	1 i	* e	58	53	3	1 i	1
Fabricated metal products	332	33	2 i	28	84 i	8 i	1 e	12
Machinery	333	38	12	47	612	18 i	12 i	64
Agricultural implements	33311	* e	* e	* e	1 e	* e	* e	* e
Semiconductor machinery	333295	0	0	* e	284	3 i	0	0
Engine, turbine, and power transmission equipment	3336	1	* e	7	99	* e	5 i	35
Other machinery	other 333	37	11	40	228	15 i	8 i	30 i
Computer and electronic products	334	133	43	112	4,821	249	20	351
Communications equipment	3342	21	1	31	629	30	1	242
Semiconductor and other electronic components	3344	71	25	8	2,274	54	2	20 i

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	South Carolina	South Dakota	Tennessee	Texas	Utah	Vermont	Virginia
Navigational, measuring, electromedical, and control instruments	3345	42	16	65 i	460 i	121 i	17	83
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	16 i	0	53 i	58 i	67 i	4 i	31 i
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	0	* e	1 e	122	17	* e	36
Other measuring and controlling devices	other 3345	26	16	11 e	280 i	38	13	16
Other computer and electronic products	other 334	* e	* e	8	1,458 i	44	* e	7 e
Electrical equipment, appliances, and components	335	76	1 e	67	117	6 e	6 e	29
Transportation equipment	336	73	5	187	416	245	22	208 i
Automobiles, bodies, trailers, and parts	3361-63	51	3 e	174	88	177	* e	21
Aerospace products and parts	3364	10	*	8	314	68	22	106
Aircraft, aircraft engines, and aircraft parts	336411-13	10	*	8	314	D	22	D
Guided missiles, space vehicles, and related parts	336414-15, 336419	0	0	* i	*	D	*	D
Military armored vehicles, tanks, and tank components	336992	*	0	0	0	0	*	0
Other transportation	other 336	11	1	6	13	* e	* e	81 i
Furniture and related products	337	1 e	1 e	1 e	8 e	4	1 e	13
Miscellaneous	339	D	1 e	D	237	D	13	34
Medical equipment and supplies	3391	12	* e	144	213	189	2 e	13 e
Other miscellaneous manufacturing	3399	D	1 e	D	24 e	D	11	21
Nonmanufacturing industries	21-23, 42-81	267	30 i	316	5,832	1,362	139	1,472 i
Mining, extraction, and support activities	21	* e	* e	2	2,864	18	* e	30
Utilities	22	*	2 i	* e	2 e	* e	* e	4
Wholesale trade	42	3 e	1 e	8 i	17 e	12 i	* e	4 e
Electronic shopping and electronic auctions	454111-12	D	* e	D	2 e	D	D	D
Transportation and warehousing	48-49	* e	* e	1 e	27 i	* e	* e	8 i
Information	51	183	18	104	1,739	576	123	617
Publishing	511	50	9	77	1,112	356	109	257
Newspaper, periodical, book, and directory publishers	5111	* e	* e	* e	13 i	* e	* e	* e
Software publishers	5112	50	8	77	1,099	356	109	257
Telecommunications	517	17 e	3 e	3 e	64 i	11 i	3 e	99
Data processing, hosting, and related services	518	97	6	20	486	162 i	10	251
Other information	other 51	19	* e	3 e	77	48	*	10
Finance and insurance	52	26	* e	2 e	151	63	* e	11
Real estate and rental and leasing	53	* e	* e	* e	4	* e	* e	* e
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	0	0	0	0	0	* i
Other real estate and rental and leasing	other 53	* e	* e	* e	4	* e	* e	* e

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	South						
		Carolina	South Dakota	Tennessee	Texas	Utah	Vermont	Virginia
Professional, scientific, and technical services	54	46 e	7 e	196	849 i	684	15 e	788 e
Architectural, engineering, and related services	5413	14 i	1 e	14 e	195	16	1 e	80
Computer systems design and related services	5415	19 e	4 i	36 e	457 i	36 e	11 i	571 e
Scientific R&D services	5417	8 e	1 e	20 e	103	18 e	3 e	74 e
Biotechnology R&D	541711	* e	1	2 e	8 e	1 e	* e	5 e
Physical, engineering, and life sciences (except biotechnology) R&D	541712	8 e	1 e	18 e	95	17 e	2 e	69 e
Social sciences and humanities R&D	541720	* e	* e	* e	* e	* e	* e	* e
Other professional, scientific, and technical services	other 54	5 e	* e	126	94 i	614	1 e	62 e
Health care services	621-23	5 i	* e	1 e	5 e	* e	* e	5
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	2 i	D	172	D	D	D
All companies (number of domestic employees)	-	936	121	1,365	13,674	2,275	259	2,877
Small companies ^b								
5-499	-	198 e	41 e	337 e	2,029 i	494	88 i	963 e
5-99	-	112 e	23 e	212 e	1,262 e	188 e	55 e	688 e
5-49	-	81 e	17 e	135 e	853 e	127 e	26 e	524 e
5-9	-	17 e	5 e	25 e	141 e	23 e	6 e	95 e
10-24	-	34 e	6 e	51 e	332 e	48 e	10 e	214 e
25-49	-	30 e	5 e	58 e	380 e	56 e	11 e	215 e
50-99	-	32 e	6 e	77 e	409 i	61	28 i	163 e
100-249	-	50	16	70	527	125	18	203
250-499	-	35	2	55	239	181	15	72
Medium and large companies								
500-999	-	82	18	44	715	39	5	211
1,000-4,999	-	208	49	256	1,546	663	5	504
5,000-9,999	-	198	1 i	66	1,186	152	34	257
10,000-24,999	-	91	7 i	409	3,154	179	24	147 i
25,000 or more	-	159	4	255	5,044	749	103	795
Industry and company size	NAICS codes	Washington	West Virginia	Wisconsin	Wyoming	Undistributed ^c		
All industries	21-23, 31-33, 42-81	15,195	252	3,677	44	7,852		
Manufacturing industries	31-33	4,022	223	2,802	24	4,017		
Food	311	40 e	48 i	128	* e	633		
Beverages and tobacco products	312	23	* e	* e	* e	D		

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	Washington	West Virginia	Wisconsin	Wyoming	Undistributed ^c
Textiles, apparel, and leather products	313-16	8	* e	18	* e	26
Wood products	321	46 i	26 i	4 i	* e	9
Paper	322	1 e	* e	308	* e	14
Printing and related support activities	323	1 e	* e	48	* e	18
Petroleum and coal products	324	* e	D	3 i	D	D
Chemicals	325	315	102	253	1	580
Basic chemicals	3251	6	1	14	*	D
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	2	* i	54	0	D
Pesticides, fertilizers, and other agricultural chemicals	3253	4 i	D	56	0	D
Pharmaceuticals and medicines	3254	298	99	110	1	D
Soaps, cleaning compounds, and toilet preparations	3256	2 e	D	9	0	D
Paints, coatings, adhesives, and other chemicals	3255, 3259	2 i	1 e	11	* e	97
Plastics and rubber products	326	16	16	146	* e	139
Nonmetallic mineral products	327	4 i	2	5	* e	109
Primary metals	331	1	2	20	* e	37
Fabricated metal products	332	55 i	2 e	111	2	248
Machinery	333	186	9	453	4 i	D
Agricultural implements	33311	7	0	45	* e	1
Semiconductor machinery	333295	1	0	0	0	D
Engines, turbine, and power transmission equipment	3336	2	* e	196	0	7
Other machinery	other 333	176	9	211	4 i	444
Computer and electronic products	334	984	7 i	230	15	967
Communications equipment	3342	162	1	26	0	145
Semiconductors and other electronic components	3344	247	* e	32	14	416
Navigational, measuring, electromedical, and control instruments	3345	450	4 i	140	* e	178
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	269	3	61 i	0	34
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	29	0	8	0	25 i
Other measuring and controlling devices	other 3345	151	1 e	70	* e	119
Other computer and electronic products	other 334	125	1 e	33	* e	228
Electrical equipment, appliances, and components	335	23	2 e	454	* e	246
Transportation equipment	336	2,154	5	387	* e	301
Automobiles, bodies, trailers, and parts	3361-63	53	* e	151	* e	D
Aerospace products and parts	3364	2,097	5	101	* e	D

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	Washington	West Virginia	Wisconsin	Wyoming	Undistributed ^c
Aircraft, aircraft engines, and aircraft parts	336411-13	2,095	4	101	* e	D
Guided missiles, space vehicles, and related parts	336414-15, 336419	2 i	1 i	0	0	*
Military armored vehicles, tanks, and tank components	336992	0	0	* i	0	*
Other transportation	other 336	4 e	* e	136	0	5
Furniture and related products	337	3 e	* e	7 i	* e	17
Miscellaneous	339	162	D	228	D	D
Medical equipment and supplies	3391	58	1 e	67	* e	106
Other miscellaneous manufacturing	3399	104	D	162	D	D
Nonmanufacturing industries	21-23, 42-81	11,173	28 e	874	21 e	3,836
Mining, extraction, and support activities	21	1 e	2 e	18	3 e	D
Utilities	22	3	* i	43	2 i	2
Wholesale trade	42	5 e	1 e	5 e	* e	43
Electronic shopping and electronic auctions	454111-12	10 i	* e	D	* e	0
Transportation and warehousing	48-49	218	* e	1 e	* e	D
Information	51	10,136	16 e	584	9 e	2,528
Publishing	511	9,158	2	480	5	212
Newspaper, periodical, book, and directory publishers	5111	* e	* e	* e	* e	9
Software publishers	5112	9,158	2	480	5	203
Telecommunications	517	9 e	8 e	7 e	2 e	2,000
Data processing, hosting, and related services	518	250	4	86	2 e	306
Other information	other 51	719	2	11	* e	9
Finance and insurance	52	9	* e	127	* e	466
Real estate and rental and leasing	53	118	* e	* e	1 i	2
Lessors of nonfinancial intangible assets (except copyrighted works)	533	*	0	0	0	1
Other real estate and rental and leasing	other 53	117	* e	* e	1 i	2
Professional, scientific, and technical services	54	654	8 e	91 e	5 e	561
Architectural, engineering, and related services	5413	56	2 e	13 i	1 e	167
Computer systems design and related services	5415	444	4 e	37 e	1 e	304
Scientific R&D services	5417	73	1 e	26	1 e	22
Biotechnology R&D	541711	22	* e	4 i	* e	D
Physical, engineering, and life sciences (except biotechnology) R&D	541712	50	1 e	21	* e	11

TABLE 21. Companies with domestic R&D paid for and performed by the company, by industry and company size, by state: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	Washington	West Virginia	Wisconsin	Wyoming	Undistributed ^c
Social sciences and humanities R&D	541720	* e	0	* e	0	D
Other professional, scientific, and technical services	other 54	81	1 e	15	1 e	67
Health care services	621-23	3 i	* e	1 e	* e	142
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	18	1 e	D	1 e	D
All companies (number of domestic employees)	-	15,195	252	3,677	44	7,852
Small companies ^b						
5-499	-	1,846	70 i	704 i	22 e	1,745
5-99	-	645 i	54 i	344 e	11 e	317
5-49	-	405 e	21 e	225 e	9 e	173
5-9	-	72 e	4 e	53 e	2 e	4
10-24	-	160 e	8 e	78 e	4 e	42
25-49	-	173 e	10 e	94 e	3 e	126
50-99	-	240	33 i	119 e	2 e	143
100-249	-	366	13	202	7 e	726
250-499	-	835	3	158	4	702
Medium and large companies						
500-999	-	373	2	218	*	888
1,000-4,999	-	972	2	608	5	D
5,000-9,999	-	626	102	1,025	1	D
10,000-24,999	-	336	27	713	1 e	1,232
25,000 or more	-	11,043	49 i	408	14	2,347

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; e = estimated, more than 50% of the estimate is modeled—see appendix A, "Technical Notes"; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a Statistics for the number of companies are based only on companies in the United States that reported to the survey. These statistics do not include an adjustment to the weight to account for unit nonresponse. A company having multiple reporting parts for data collection may contribute to the statistics for multiple industries, so the detail may not add to the total for the number of companies.

^b Upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

^c Includes data reported on Form BRDI-1 that were not allocated to a specific state and also data reported on Form BRDI-1(S) by multi-establishment companies. For single-establishment companies, data reported on Form BRDI-1(S) were allocated to the state in the address used to mail the survey form.

NOTES: 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. For a given estimate in this table, if the conditions are satisfied for both the i and e flags, the e flag is assigned because the imputation rate may be found in the corresponding table of imputation rates. Statistics are representative of companies located in the United States that performed or funded R&D. Changes in data collection and imputation processes have affected the comparability of company count estimates in this table with estimates published for previous years.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2014.