

TABLE 15. Domestic sales for companies located in the United States that performed or funded R&D, by business activity: 2008–13

(Millions of U.S. dollars)

Business activity ^a	Business code ^b	2008	2009	2010	2011	2012	2013
All business activities	21100–81000	7,796,340	7,448,495	8,831,739	9,059,299	9,260,168	9,654,952
Oil and gas extraction	21100	127,788	61,582	85,797	178,926 i	124,569	120,514
Mining	21200	NA	D	33,072	38,109	24,837	38,237
Support activities for mining, including oil and gas	21300	NA	23,022	34,840	42,645	51,327	72,644
Utilities	22100	NA	D	301,613	337,871	309,573	316,046
Construction	23000	NA	27,180	81,641	88,626	64,402	60,712
Food manufacturing	31100	394,404	503,047	501,332	494,683	503,915	694,281
Beverage manufacturing	31210	83,691	78,740	84,764	95,236	83,774	106,592
Tobacco manufacturing	31220	28,680	32,431	31,357	29,645	27,706	35,865
Textile, apparel, and leather products manufacturing	31990	NA	45,893	56,890	52,532	68,545	55,123
Wood products manufacturing	32100	28,183	26,213	25,241	22,344	28,764	36,751
Paper manufacturing	32200	100,057	80,030	99,820	103,867	101,033	106,687
Printing and related support activities	32300	22,678	33,532	32,163	26,809	26,267	26,318
Petroleum refineries	32401	NA	NA	540,612	581,297	578,075	640,022
Asphalt paving, roofing, and saturated materials manufacturing	32402	NA	NA	7,549	8,781	8,489	13,308
Other petroleum and coal products manufacturing, including motor oil, hydraulic fluid, and charcoal	32403	NA	NA	21,658	20,509	20,440	13,756
Basic chemicals manufacturing	32510	158,621	103,950	150,240	206,723	344,515 i	198,980
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	32520	60,269	61,805	64,684	58,263	68,104	68,459
Pesticide, fertilizer, and other agricultural chemicals manufacturing	32530	28,010	47,317	41,528	33,380	40,317	45,668
Pharmaceutical, medicinal, botanical, and biological products (except diagnostic) manufacturing ^c	32541	445,985	309,750	324,266	414,284	428,486	415,007
In-vitro diagnostic substances manufacturing ^c	32542	15,353	9,805	12,835	13,735	14,646	8,172
Biotechnology-based pharmaceutical and biological products (except diagnostics)	32543	NA	NA	NA	NA	NA	36,876
Soap, cleaning compound, and toilet preparations manufacturing	32591	69,942	71,452	81,151	70,851	82,518	87,095
Paint, adhesive, and other chemical manufacturing	32592	63,149	62,724	60,506	64,497	79,372	67,918
Plastics and rubber products manufacturing	32600	118,523	114,191	137,777	173,290	194,568	152,967
Clay and glass products manufacturing	32710	24,394	19,014	25,143	21,754	20,164	23,064
Cement, concrete, lime, gypsum, and other nonmetallic mineral product manufacturing	32790	43,373	31,599	24,141	24,235	33,359	33,483
Primary metal manufacturing	33100	NA	97,493	161,558	148,670	153,926	135,076
Fabricated metal products manufacturing	33200	142,788	102,595	119,246	130,090	155,294 i	151,839
Agricultural machinery and equipment manufacturing	33311	27,543	25,669	29,904	29,258	35,667	45,722
Construction machinery manufacturing	33312	18,228	13,180	19,480	25,854	31,853	43,323
Mining, oil, and gas field machinery and equipment manufacturing	33319	NA	33,167	39,264	53,050	60,556	47,164
Semiconductor machinery manufacturing	33321	9,091	4,765	11,918	15,018	6,839	10,809
Industrial machinery manufacturing (except semiconductor machinery)	33322	19,452	15,372	21,762	29,736	31,127	29,134
Photographic and photocopying equipment manufacturing	33331	NA	5,392	3,927 i	4,791 i	D	6,969

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Commercial, service industry, temperature control, and air-flow control machinery manufacturing	33332	NA	33,493	48,407	43,626	54,363	64,850
Engine, turbine, and power transmission equipment manufacturing	33360	58,560	30,093	46,693	68,243	74,148	88,901
Metalworking and other general purpose machinery manufacturing	33390	54,007	43,998	58,532	71,081	86,258	82,182
Computers and peripheral equipment manufacturing and magnetic and optical media	33412	NA	136,666	167,290	174,898	143,492	176,629
Telephone apparatus manufacturing, including routers, modems, and gateways	33421	26,447	35,592	40,631	32,334	34,783	39,037
Radio, television, and wireless communication equipment manufacturing	33422	46,641	46,769	61,641	55,217	82,027	88,869
Other communication equipment manufacturing (except radio, television, and wireless communication equipment)	33429	11,185	8,644	8,841	12,452	13,908	16,607
Audio and video equipment manufacturing	33430	10,969	10,929	19,142	7,296	14,633	14,927
Semiconductor and other electronic components manufacturing	33440	119,612	117,302	138,124	151,590	146,764	124,422
Electromedical, electrotherapeutic, and irradiation apparatus manufacturing	33451	28,976	18,709	19,647	25,057	27,605	31,396
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	33452	33,348	46,237	57,639	40,372	53,425	52,977
Measuring and control instruments manufacturing (not listed elsewhere)	33459	37,609	42,753	50,643	49,752	58,909	47,730
Electrical equipment, appliances, and components manufacturing	33500	106,551	85,758	105,982	106,576	110,094	132,916
Motor vehicles manufacturing	33610	346,591	274,985	329,874	373,194	375,113	459,722
Motor vehicle body and trailer manufacturing	33620	9,363	15,184	22,168	14,423	31,982	25,723
Motor vehicle parts manufacturing	33630	97,433	77,528	146,257	125,593	130,372	155,216
Aircraft manufacturing	33641	97,973	69,001 i	81,666	111,748	91,545 i	139,393
Aircraft engine and engine parts manufacturing	33642	35,056	24,737	25,563	27,491	26,706	44,250
Other aircraft parts and auxiliary equipment manufacturing	33643	21,141	26,755	31,157	43,898	34,541	47,488
Guided missiles, space vehicles, and related parts manufacturing	33644	38,114	D	25,391	35,889	14,656	14,770
Railroad rolling stock manufacturing	33651	6,354	2,763	7,095 i	7,204	11,800	10,701
Ship and boat building	33660	14,880	D	10,531	11,647	22,778 i	15,061
Motorcycle, bicycle, and parts manufacturing	33691	8,078	6,282	6,081	7,422	7,067	10,406
Military armored vehicle, tank, and tank components manufacturing	33692	13,092	9,674	9,072	5,755	4,668	4,190 i
All other transportation equipment manufacturing	33699	7,131	5,438	11,079	11,066	16,258	15,806
Furniture and related products manufacturing	33700	36,218	31,479	32,876	32,881	37,447 i	35,661
Medical equipment and supplies manufacturing	33910	105,647	102,585	169,760	225,177	136,664	164,968
Miscellaneous manufacturing not listed elsewhere (games, office supplies, slot machines, etc.)	33990	80,689	84,846	71,000	78,674	80,879	93,484
Merchant wholesalers, durable goods	42300	238,101	196,341	206,240	171,815	221,488	356,866 i
Merchant wholesalers, nondurable goods	42400	274,190	239,385	247,311	266,388	349,833	363,573

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Wholesale electronic markets and agents and brokers (business to business)	42500	2,481	D	3,331	3,008	65,076 i	33,265
Retail trade (except electronic shopping and electronic auctions)	44000	NA	D	195,958	70,424	214,728 i	131,500
Electronic shopping and electronic auctions	45411	NA	NA	32,624	40,254	53,712	59,212
Transportation	48000	NA	D	95,591	83,912	107,212	88,604
Couriers, messengers, and express delivery services	49200	D	D	36,420	D	D	77,766
Warehousing and storage	49300	28,723	1,296	23,982	21,910	3,157	12,287
Newspaper, periodical, book, and directory publishers (except Internet)	51110	12,383	16,369	18,917	22,488	26,549 i	14,993
Software publishers (except Internet) ^d	51120	121,028	118,001	129,649	132,970	136,905	157,995
Motion picture and sound recording (except Internet)	51200	10,053	14,356	11,375	9,824	7,281 i	13,974
Broadcasting (except Internet)	51500	NA	34,110	45,779	39,563	59,926	73,285
Wired telecommunications carriers	51710	99,917	D	209,490	261,484	216,736	181,131
Wireless telecommunications carriers (except satellite)	51720	134,162	153,937	138,473	156,525	193,254	205,148
Satellite telecommunications	51740	14,005	6,743 i	15,845	2,430	2,822	3,143
Other telecommunications (not listed elsewhere)	51790	4,374	8,108	7,222	15,929	14,610	16,325
Data processing, hosting, and related services ^d	51800	NA	29,903	31,417	51,197	82,997 i	49,450
Cloud computing applications and Internet-based software services	51801	NA	NA	NA	NA	NA	16,188
Other information services, including Internet publishing, broadcasting, and Web search portals ^d	51910	NA	27,907	47,397	28,424	28,760	36,613
Finance: banking and credit intermediation	52200	NA	D	992,651	601,628	631,902 i	305,720
Securities, commodity contracts, and other financial investments and related activities, including funds and trusts	52310	NA	D	113,669	117,167	88,244	82,964
Insurance carriers and related activities	52400	NA	282,640	265,110	265,293	349,252	310,166
Real estate	53100	6,053	D	4,615	4,727	8,069	8,075
Rental and leasing services	53200	NA	D	27,719	18,597	21,801	26,379
Lessors of nonfinancial intangible assets, including patent licensing	53300	D	1,484	1,702	2,350	2,125	10,892 i
Legal, accounting, tax preparation, bookkeeping, and payroll services	54111	NA	D	14,565	7,394	9,093	11,522
Architectural, engineering, and related services	54130	37,749	81,565	113,603	65,209	94,868 i	80,681
Specialized design services	54140	3,325	D	3,522	2,353	3,301 i	2,671
Computer systems design and related services ^d	54150	124,832	140,234	143,787	224,144	167,759	158,729
Management, scientific, and technical consulting services	54160	33,588	36,811	28,351	52,489	57,925	56,559
Research and development services in social sciences and humanities	54172	NA	978	1,168	820	934	1,297
Research and development services in biotechnology ^c	54173	NA	18,691 i	7,194	7,388	9,769	10,690
Research and development services in physical, engineering, and life sciences (except biotechnology)	54174	NA	16,041	15,845	19,094	27,670	32,121
Advertising and related services	54180	14,574	D	11,336 i	21,227	27,500	34,910
Professional, scientific, and technical services (not listed elsewhere)	54190	15,690	28,298	33,134	46,048	53,969	39,529

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Management of companies and enterprises	55100	752	2,310	3,347	11,847	4,131	177,298
Administrative and support services	56100	NA	29,045	25,660	22,146	38,874 i	29,336
Waste management and remediation services	56200	NA	D	13,971	7,223	6,080	5,659
Offices of physicians	62110	7,492	25,751	24,133	23,844	35,513	36,254
Medical and diagnostic laboratories	62150	19,930	14,359	36,288	15,778	19,655	16,894
Other ambulatory health care services (ambulance, dental, home health care)	62199	NA	D	8,333	D	3,334 i	10,930
Hospitals and nursing care facilities	62200	NA	D	7,831	16,084	870 i	1,230
Social assistance services	62400	D	D	448	326	249	1,037
Arts, entertainment, and recreation	71000	NA	14,265	12,920	12,727	15,248	13,183
Accommodation and food services	72000	NA	D	37,218	27,476	54,266 i	57,995
Other services (not listed elsewhere)	81000	NA	9,638	35,994	118,268	44,823	120,573
Less: intersegment eliminations	–	219,384	110,499	132,754	117,417	136,579	136,884
Undistributed	–	756,553	1,137,705	412,892	450,613 i	108,244 i	114,359 i

D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse; NA = not available.

NAICS = 2007 North American Industry Classification System. For survey year 2008, industry classification was based on the 2002 NAICS.

^a Data tabulated independent of the industry classification of the company. Companies were asked to report their sales and R&D activity in one or more business activity codes.

^b Business codes and descriptions based on 2007 NAICS industry definitions.

^c Estimates for this business code may not be comparable to those from prior years due to the introduction of a related business code for survey year 2013: 32543, Biotechnology-based pharmaceutical and biological products (except diagnostics).

^d Estimates for this business code may not be comparable to those from prior years due to the introduction of a related business code for survey year 2013: 51801, Cloud computing applications and Internet-based software services.

NOTES: Detail may not add to total because of rounding. Statistics are representative of companies located in the United States that performed or funded R&D. For companies that did not report business codes, classification used for sampling was assigned.

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