

TABLE 22. Domestic R&D paid for by sources located outside the United States and performed by the company, by source of funds, industry, and company size: 2008

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Foreign-located companies			
			Companies' foreign subsidiaries <sup>a</sup>	Parents and independent companies	Foreign governments	All other
All industries	21–23, 31–33, 42–81	15,652	6,657	8,877	48	70
Manufacturing industries	31–33	10,203	5,448	4,712	D	D
Food	311	111	79	32	0	0
Beverage and tobacco products	312	D	D	3	0	0
Textiles, apparel, and leather products	313–316	5	4	1 i	0	0
Wood products	321	0	0	0	0	0
Paper	322	8	D	D	0	0
Printing and related support activities	323	0	0	0	0	0
Petroleum and coal products	324	D	D	D	0	0
Chemicals	325	3,987	1,802	2,182	0	2
Basic chemicals	3251	D	D	23	0	0
Resin, synthetic rubber, fibers, and filaments	3252	21	D	D	0	0
Pesticide, fertilizer, and other agricultural chemical	3253	D	0	D	0	0
Pharmaceuticals and medicines	3254	3,483	1,465	2,017	0	2
Soap, cleaning compound, and toilet preparation	3256	4	2	2	0	0
Paint, coating, adhesive, and other chemical	3255, 3259	D	D	*	0	0
Plastics and rubber products	326	35	11	23	0	*
Nonmetallic mineral products	327	5	3	2	0	0
Primary metals	331	10	10	*	0	0
Fabricated metal products	332	21	15	7	*	0
Machinery	333	222	124	97	1	*
Agricultural implements	33311	3	3	0	0	0
Semiconductor machinery	333295	27	2	26	0	0
Engine, turbine, and power transmission equipment	3336	33	1	32	0	0
Other machinery	other 333	159	119	39	1	*
Computer and electronic products	334	3,728	2,378	1,338	11	1
Communications equipment	3342	554	D	D	0	0
Semiconductor and other electronic components	3344	1,476	D	D	1	*
Navigational, measuring, electromedical, and control instruments	3345	888	550	326	10	1
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	329	327	1	1	0
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	D	D	323	9	1
Other measuring and controlling instruments	other 3345	D	D	2	*	0
Computer and peripheral equipment and other computer and electronic products	3341, 3343, 3346	810	525	286	0	0
Electrical equipment, appliances, and components	335	117	47	66	4 i	0
Transportation equipment	336	1,137	D	768	D	D
Automobiles, bodies, trailers, and parts	3361–3363	785	D	D	D	D
Aerospace products and parts	3364	340	D	D	D	*
Aircraft, aircraft engine, and aircraft parts	336411–336413	D	D	D	D	*

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Guided missile, space vehicle, and related parts	336414, 336415, 336419	D	D	0	*	0
Military armored vehicle, tank, and tank components	336992	D	D	0	0	0
Other transportation equipment	other 336	D	D	2 i	2 i	0
Furniture and related products	337	0	0	0	0	0
Miscellaneous manufacturing	339	601	D	D	*	0
Medical equipment and supplies	3391	558	496	62	*	0
Other miscellaneous manufacturing	3399	43	D	D	0	0
Nonmanufacturing industries	21-23, 42-81	5,449	1,209	4,166	D	D
Mining, extraction, and support activities	21	D	D	D	*	0
Utilities	22	0	0	0	0	0
Construction	23	0	0	0	0	0
Wholesale trade	42	77	3	72	0	2
Retail trade	44, 45	0	0	0	0	0
Electronic shopping and mail-order houses	4541	0	0	0	0	0
Other retail trade	other 44, 45	0	0	0	0	0
Transportation and warehousing	48, 49	*	*	*	0	0
Information	51	680	358	315	7	*
Publishing	511	398	D	D	D	*
Newspaper, periodical, book, and directory publishers	5111	0	0	0	0	0
Software publishers	5112	398	D	D	D	*
Telecommunications	517	77	40	38	0	0
Internet service providers, Web search portals, and data processing services	518	D	D	1	*	0
Other information	other 51	D	D	D	D	0
Finance and insurance	52	D	D	* i	0	0
Real estate and rental and leasing	53	0	0	0	0	0
Professional, scientific, and technical services	54	4,363	545	3,753	D	D
Architectural, engineering, and related services	5413	D	D	194	0	0
Computer systems design and related services	5415	1,772	282	1,490	0	0
Scientific R&D services	5417	2,318	250	2,008	D	D
Other professional, scientific, and technical services	other 54	D	D	61	4	0
Health care services	621-623	3	*	3	*	0
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	D	D	D	0	0
All companies	21-23, 31-33, 42-81	15,652	6,657	8,877	48	70
Small companies (number of domestic employees) <sup>b</sup>						
5-499	-	2,109	446	1,597	21 i	46
5-99	-	1,123	180	895	11 i	36
5-49	-	678	83	556	4 i	36
5-24	-	377	11	364	*	2

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25–49	–	301	73	191	3 i	34
50–99	–	444	97	340	7 i	* i
100–249	–	463	150	297	7	8
250–499	–	523	115	404	2 i	2 i
Medium and large companies (number of domestic employees)						
500–999	–	1,275	253	1,022	*	* i
1,000–4,999	–	5,795	2,231	3,539	D	D
5,000–9,999	–	1,369	D	912	D	0
10,000–24,999	–	2,866	1,240	1,625	1	0
25,000 or more	–	2,238	D	182	20	D

\* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = value > 50% of estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2002 North American Industry Classification System.

<sup>a</sup> Subsidiaries estimates only include adjustment to weight for unit nonresponse; remaining details include weight adjustment and item-level imputation. See technical notes document for details on methodology implemented.

<sup>b</sup> Upper bound based on U.S. Small Business Administration's definition of small business; Business R&D and Innovation Survey (BRDIS) does not include companies with fewer than five domestic employees. After 2008 BRDIS sample was selected and surveyed, an error was identified that resulted in excluding 226,884 single-establishment companies with five paid employees from sample frame. Most excluded establishments were classified in industries with low R&D intensities, such as construction, retail trade, and service sectors. Based on available information for these small single-establishment companies, their contribution to 2008 R&D estimates is estimated to be negligible.

NOTES: Detail may not add to total because of rounding. Industry classification based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, classification used for sampling was assigned. Statistics are representative of companies located in United States that performed or funded R&D.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey, 2008.