

TABLE 67. Domestic R&D paid for by others and performed by the company, by type of cost, industry, and company size: 2009  
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Salaries, wages and fringe benefits	Stock-based compensation	Temporary staffing	Expensed equipment	Materials and supplies	Lease and rental payments	Depreciation	Other purchased services (except R&D)	Allocated Costs	Other
All industries	21-23, 31-33, 42-81	57,473	32,522	578 i	1,186	412 i	6,362 i	924 i	1,025	404	2,577 i	11,482 i
Manufacturing industries	31-33	36,920 i	21,064 i	88	484	183	4,676 i	129	504	271	1,199	8,322 i
Food	311	D	129	*	2	1	6	* i	*	1	0	D
Beverage and tobacco products	312	2	D i	0	* i	* i	D i	* i	* i	D i	0	D i
Textiles, apparel, and leather products	313-316	8	5	0	0	* i	1 i	* i	* i	0	0	1 i
Wood products	321	17	D	0	2	0	*	0	0	0	D	*
Paper	322	25	D	* i	*	0	1 i	0	1 i	* i	D i	2 i
Printing and related support activities	323	1	1	* i	0	* i	* i	* i	* i	* i	* i	* i
Petroleum and coal products	324	D	D	D	5	6	D	0	0	D	D	D
Chemicals	325	3,452	1,969	74	69	13	205	25	133	120	143	703
Basic chemicals	3251	120	76	0	2	*	D	1	D	D	7	D
Resin, synthetic rubber, fibers, and filaments	3252	23	D	D i	*	D	D	D	D	D	* i	2
Pesticide, fertilizer, and other agricultural chemical	3253	D	D	D	2	D	D	D	D	D	0	D
Pharmaceuticals and medicines	3254	3,185	1,811	74	65	10	172	23	122	102	136	671
Soap, cleaning compound, and toilet preparation	3256	3	D	0	0	0	D i	0	D i	D i	* i	D i
Paint, coating, adhesive, and other chemical	3255, 3259	D	32	0	*	2 i	8 i	0	0	4 i	0	D i
Plastics and rubber products	326	139	94	0	1	1 i	13 i	1 i	1 i	D i	D i	18
Nonmetallic mineral products	327	23	16	* i	0	* i	3 i	1 i	1 i	* i	* i	1 i
Primary metals	331	244	122	* i	* i	* i	119	* i	* i	0	0	2 i
Fabricated metal products	332	109	75	* i	1	3 i	12 i	1 i	7 i	* i	* i	10 i
Machinery	333	356	226	1	23	13	41	1 i	10	10	19	13
Agricultural implements	33311	7	2	0	0	2	2	0	* i	* i	* i	* i
Semiconductor machinery	333295	24	11	*	1	1 i	5 i	*	1 i	1 i	2 i	1 i
Engine, turbine, and power transmission equipment	3336	112	62	*	D	8	D	*	D	8	* i	2
Other machinery	other 333	214	151	*	D	1	D	* i	D i	1 i	17	10
Computer and electronic products	334	7,571	3,741	12 i	275	96	1,171	55	255	96	510	1,360
Communications equipment	3342	1,628	711	0	19	4	154 i	D	42 i	42 i	182 i	D i
Semiconductor and other electronic components	3344	563	345	D	12	11	31	5	73	1	D	D
Navigational, measuring, electromedical, and control instruments	3345	4,915	2,391	6 i	241	79	955	41 i	107	49	270	776
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	1,259 i	597 i	6 i	16 i	35 i	207 i	26 i	41 i	6 i	74 i	251 i
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	3,562	1,737	*	225	43	742	15	65	43	194	498
Other measuring and controlling instruments	other 3345	94	57	0	1	* i	6 i	* i	1 i	* i	2	28 i

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Computer and peripheral equipment and other computer and electronic products	other 334	466	294	D i	3	3 i	30	D	33	4	D	D
Electrical equipment, appliances, and components	335	228	136	D	7	* i	D i	7 i	6 i	D i	D i	9 i
Transportation equipment	336	24,114 i	14,284 i	*	80	42	3,024 i	32	75	20	481	6,075 i
Automobiles, bodies, trailers, and parts	3361-3363	D	D	*	D	D	D	D	D	D	D	D
Aerospace products and parts	3364	22,170 i	13,097 i	* i	53	38	2,818 i	18	48	5	465	5,627 i
Aircraft, aircraft engine, and aircraft parts	336411-336413	15,402 i	9,205 i	* i	D	D	1,935 i	16	48	5	223	D i
Guided missile, space vehicle, and related parts	336414, 336415, 336419	6,768	3,893	* i	D	D	883	2	* i	*	242	D
Military armored vehicle, tank, and tank components	336992	2	1	0	*	0	1 i	0	0	0	* i	* i
Other transportation equipment	other 336	D i	D i	0	D	D i	D i	D i	D i	D i	D i	D i
Furniture and related products	337	3	2	0	*	0	0	0	0	0	0	1 i
Miscellaneous manufacturing	339	321	174	*	20	8	29	8	15	1	2 i	65 i
Medical equipment and supplies	3391	114	68	*	2	*	7	1 i	5	*	* i	30 i
Other miscellaneous manufacturing	3399	207	106	*	18	8	22	7	10	1	2	35
Nonmanufacturing industries	21-23, 42-81	20,553	11,457	490 i	703	229 i	1,686 i	795 i	521	133	1,378 i	3,160 i
Mining, extraction, and support activities	21	D	D	D	D	D	D	D	7	D	5	D
Utilities	22	33	D	D	*	D	D	D i	0	D	0	D
Construction	23	5	1	0	*	0	*	0	0	0	0	3 i
Wholesale trade	42	D	109	0	6	2 i	2 i	4 i	4 i	D i	0	D i
Retail trade	44, 45	0	0	0	0	0	0	0	0	0	0	0
Electronic shopping and mail-order houses	4541	0	0	0	0	0	0	0	0	0	0	0
Other retail trade	other 44, 45	0	0	0	0	0	0	0	0	0	0	0
Transportation and warehousing	48, 49	26 i	3	0	16 i	0	* i	0	0	0	0	7 i
Information	51	811	648	* i	D	D	D	D	13	D	4	48
Publishing	511	666	524	* i	32	10	22	15	12	*	4	47
Newspaper, periodical, book, and directory publishers	5111	*	*	0	0	* i	* i	* i	* i	0	* i	* i
Software publishers	5112	666	523	* i	32	10	22	15	12	*	4	47
Telecommunications	517	82	63	0	D	D	D	D	1	D	0	0
Data processing, hosting, and related services	518	60	58	0	D	0	D i	* i	* i	* i	* i	1 i
Other information	other 51	3	3	* i	*	* i	* i	* i	* i	0	* i	* i
Finance and insurance	52	8	7	0	* i	0	0	0	0	0	0	1 i
Real estate and rental and leasing	53	0	0	0	0	0	0	0	0	0	0	0
Professional, scientific, and technical services	54	18,915	10,439	487 i	532	188 i	1,617 i	761 i	497	115 i	1,368 i	2,912 i
Architectural, engineering, and related services	5413	2,058	1,164	397 i	91	64 i	148 i	44 i	16 i	2 i	58 i	74 i

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Computer systems design and related services	5415	1,818	1,126	5 i	84	2 i	71 i	28 i	22 i	19 i	267 i	194 i
Scientific R&D services	5417	9,289	5,480	81	238	38	873	262	387	83	225	1,620
Biotechnology R&D	541711	2,798	1,515	51	80	15	405	68	154	14	66	430
Physical, engineering, and life sciences (except biotechnology) R&D	541712	5,828	3,519	26 i	143	16 i	458	164	227	69	159	1,047
Social sciences and humanities R&D	541720	663	446	5	15	7	10	31	6	0	0	143
Other professional, scientific, and technical services	other 54	5,751	2,668	4 i	118	85 i	524 i	427 i	72 i	11 i	818 i	1,024 i
Health care services	621-623	190	93	* i	1	*	4 i	1	*	*	*	90
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	134	D	* i	D	D i	1 i	D	1 i	0	0	D
All companies	-	57,473	32,522	578 i	1,186	412 i	6,362 i	924 i	1,025	404	2,577 i	11,482 i
Small companies (number of domestic employees) <sup>a</sup>												
5-499	-	14,461	8,098	55 i	514	178 i	1,186 i	643 i	331 i	122 i	1,177 i	2,157 i
5-99	-	9,342	4,887	29 i	263	109 i	809 i	469 i	205 i	68 i	895 i	1,607 i
5-49	-	4,351	2,684	14 i	94	37 i	397 i	88 i	108 i	38 i	295 i	598 i
5-24	-	2,537	1,641	8 i	68	20 i	204 i	41 i	62 i	17 i	137 i	338 i
25-49	-	1,815	1,042	6 i	26	17 i	193 i	46 i	46 i	20 i	158 i	260 i
50-99	-	4,991	2,204	16	169	73 i	413 i	381 i	96 i	31	600 i	1,009 i
100-249	-	2,287	1,497	15	95	47	202 i	48	53 i	26 i	118	187 i
250-499	-	2,832	1,713	10	156	22 i	174	127 i	74	27	164 i	364 i
Medium and large companies (number of domestic employees)												
500-999	-	1,542	964	25	61	13	133	20	38	10	53	224
1,000-4,999	-	5,625	3,201	25	150	41	402	105	203	57	317	1,126
5,000-9,999	-	4,279	2,256	412 i	213	47 i	415	72	184	27	94	560
10,000-24,999	-	8,847	4,172	60	119	74	1,552	61	191	153	690	1,774
25,000 or more	-	22,719 i	13,831 i	1 i	129 i	60	2,676 i	24	77	35	245	5,641 i

\* = 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 = 2007 North American Industry Classification System.

<sup>a</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.

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, 2009.