

TABLE 110. Domestic R&D paid for by others and performed by the company, by type of cost, industry, and company size: 2010
(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)	Other ^a
All industries	21-23, 31-33, 42-81	57,271	33,372	194	1,557	452 i	7,146	571	1,152	783	12,045 i
Manufacturing industries	31-33	37,133	21,139 i	83	657 i	208 i	5,277	126	629	532	8,482 i
Food	311	D	88	* i	1	2 i	13 i	* i	1 i	2 i	D
Beverage and tobacco products	312	D	D	0	0	0	*	*	*	D	D
Textiles, apparel, and leather products	313-316	12	7	* i	0	* i	1 i	* i	* i	* i	3 i
Wood products	321	18	8	* i	2	* i	2 i	* i	1 i	* i	6 i
Paper	322	28	14	0	3 i	0	1	0	1	*	8
Printing and related support activities	323	30	30	* i	0	* i	* i	* i	* i	* i	* i
Petroleum and coal products	324	D	D	D	0	D	1	D	D	D	D
Chemicals	325	4,483	2,125	56	333 i	7 i	535	30	212	153	1,033
Basic chemicals	3251	85	42	* i	D	* i	10 i	1 i	D	3 i	D
Resin, synthetic rubber, fibers, and filaments	3252	21	13	* i	D	* i	* i	* i	1 i	D	7 i
Pesticide, fertilizer, and other agricultural chemical	3253	D	D	D	D	D	D	D	D	D	D
Pharmaceuticals and medicines	3254	4,017	1,989	D	D	D	520	D	204	148	D
Soap, cleaning compound, and toilet preparation	3256	4	2	* i	D	0	D	* i	* i	* i	*
Paint, coating, adhesive, and other chemical	3255, 3259	D	D	* i	D	D	D	* i	D	D	D
Plastics and rubber products	326	312 i	134 i	*	7 i	39 i	22 i	*	9	* i	101 i
Nonmetallic mineral products	327	30	D	D	*	D	15	* i	1 i	D	1 i
Primary metals	331	74	D	* i	*	* i	27 i	D	D	*	D
Fabricated metal products	332	239	137	1 i	1	6 i	47 i	1 i	9 i	5 i	33 i
Machinery	333	571	355	*	20	10 i	80	6	15	7	79
Agricultural implement	33311	23	14	* i	1	* i	3	* i	1	* i	4
Semiconductor machinery	333295	127	87	*	6	3	7	5	7	2 i	9
Engine, turbine, and power transmission equipment	3336	113	59	0	7	* i	26	*	2	*	19
Other machinery	other 333	308	196	* i	6	6 i	44 i	* i	5 i	4	48 i
Computer and electronic products	334	8,652	5,112	24	146	63 i	1,283	44	286	149	1,545
Communications equipment	3342	1,687	1,079 i	* i	29	6	201 i	3	46 i	D	D
Semiconductor and other electronic components	3344	615	288	1	16	4	54	4 i	109	23	116
Navigational, measuring, electromedical, and control instruments	3345	5,832	3,464	22	93	48 i	997	35	101	59	1,013
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	197	120	D	12	2	13	7	4	4	D
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	5,511	3,273	D	78	44 i	973	27 i	95	54	D
Other measuring and controlling instruments	other 3345	124	71	D	3	1 i	11 i	1 i	1 i	* i	D
Other computer and electronic products	other 334	518	282	* i	7	6 i	31	2	30	D	D
Electrical equipment, appliances, and components	335	180	116	* i	7	1 i	25 i	3 i	3 i	1 i	24
Transportation equipment	336	21,837 i	12,583 i	*	129	79 i	3,200 i	35	87	201	5,522 i
Automobiles, bodies, trailers, and parts	3361-3363	D	D	*	D	D	D	D	D	D	D
Aerospace products and parts	3364	19,702 i	11,418 i	*	30	39	2,930 i	17	58	139	5,071 i
Aircraft, aircraft engine, and aircraft parts	336411-336413	15,547 i	D	*	24	36	1,929 i	16	58	D	D
Guided missile, space vehicle, and related parts	336414, 336415, 336419	4,155	D	0	6	3	1,001	1 i	* i	D	D

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Military armored vehicle, tank, and tank components	336992	D	D	* i	0	* i	D	D	* i	0	D
Other transportation	other 336	D	D	0	D	D	D	D	D	D	D
Furniture and related products	337	3	3 i	0	0	0	0	0	0	0	0
Miscellaneous manufacturing	339	D	304	1 i	9	2 i	25 i	6 i	5 i	5 i	D
Medical equipment and supplies	3391	D	261	1 i	8	1 i	9 i	4 i	5 i	1 i	D
Other miscellaneous manufacturing	3399	72	43	* i	1	1 i	16 i	3 i	1 i	4 i	4 i
Nonmanufacturing industries	21-23, 42-81	20,138	12,233	111	900	243	1,869	445	523	251	3,563
Mining, extraction, and support activities	21	289	146	2	9	*	31	D	5	4 i	D
Utilities	22	54	25	*	*	1	17	1	0	*	10
Construction	23	375	62	* i	0	* i	1 i	D	* i	* i	D
Wholesale trade	42	233	123	* i	11	1 i	2 i	2 i	3 i	6 i	85 i
Retail trade	44, 45	*	*	0	0	0	0	0	0	0	0
Electronic shopping and electronic auctions	454111, 454112	0	0	0	0	0	0	0	0	0	0
Other retail trade	other 44, 45	*	*	0	0	0	0	0	0	0	0
Transportation and warehousing	48, 49	7 i	1	0	3 i	* i	1 i	* i	* i	* i	2 i
Information	51	768	639	* i	33	9	17	12	10	*	48
Publishing	511	595	483	* i	27	9	15	11	9	*	42
Newspaper, periodical, book, and directory publishers	5111	*	0	0	*	0	0	0	0	0	0
Software publishers	5112	595	483	* i	27	9	15	11	9	*	42
Telecommunications	517	113	99	* i	5	*	2	1	1	* i	5
Data processing, hosting, and related services	518	47	45 i	0	*	0	* i	* i	* i	* i	1 i
Other information	other 51	13	13 i	0	* i	* i	* i	* i	* i	0	* i
Finance and insurance	52	0	0	0	0	0	0	0	0	0	0
Real estate and rental and leasing	53	2	2 i	0	0	0	0	0	0	0	0
Professional, scientific, and technical services	54	18,252	11,113	109	842	231	1,788	414	502	241	3,012
Architectural, engineering, and related services	5413	2,712	1,991	6 i	76 i	74 i	214 i	66 i	51 i	17 i	217 i
Computer systems design and related services	5415	1,634	1,204	* i	78	3 i	49 i	13 i	5 i	9 i	272 i
Scientific R&D services	5417	11,968	6,801	102	385	142	1,345	302	429	213	2,248
Biotechnology R&D	541711	3,890	2,016	75	105	107	423	109	198	D	D
Physical, engineering, and life sciences (except biotechnology) R&D	541712	7,547	4,393	D	265	29 i	912	178 i	227 i	165	D
Social sciences and humanities R&D	541720	530	393	D	15	7	10 i	15	4	D	D
Other professional, scientific, and technical services	other 54	1,939	1,117	1 i	303	12	179	34	17 i	2 i	274
Health care services	621-623	107	74	* i	*	2 i	11 i	2 i	2 i	* i	15 i
Other nonmanufacturing	55, 56, 624, 71, 72, 81	52	47	0	1	* i	2 i	D	* i	* i	D
All companies (number of employees)	-	57,271	33,372	194	1,557	452 i	7,146	571	1,152	783	12,045 i
Small companies (number of employees) ^b											
5-499	-	11,379	7,046	47 i	417	111 i	1,079 i	271 i	302 i	197 i	1,909 i
5-99	-	7,078	4,477	23 i	218	75 i	651 i	159 i	162 i	103 i	1,211 i
5-49	-	4,623	3,131	16 i	120	54 i	353 i	88 i	94 i	58 i	710 i

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5-9	-	944	613	4 i	29	5 i	67 i	14 i	19 i	12 i	180 i
10-24	-	2,002	1,358	7 i	54	28 i	166 i	42 i	47 i	26 i	273 i
25-49	-	1,678	1,160	5 i	37	20 i	120 i	31 i	28 i	19 i	257 i
50-99	-	2,455	1,346	8 i	98	21 i	298 i	71 i	67 i	46 i	500 i
100-249	-	2,431	1,530	13	80	22 i	247	55	76	41	368
250-499	-	1,870	1,039	11	119	14	182	57	64	53 i	330
Medium and large companies (number of employees)											
500-999	-	1,477	917	9	39	28	151	17	40	76	200
1,000-4,999	-	8,760	4,467	84	533 i	126	1,149	117	195	120	1,970
5,000-9,999	-	5,523	3,224	46	246	39 i	461	71	391	112	933
10,000-24,999	-	5,147	2,977	3	72	18 i	1,029	30	79	201	739
25,000 or more	-	24,985 i	14,742 i	6 i	251	129 i	3,276 i	65	145	77	6,294 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.

^a Includes data for costs allocated to subsidiaries by parent companies.

^b 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, 2010.