

TABLE 36. Domestic R&D paid for by others and performed by the company, by type of cost, industry, and company size: 2013
(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
All industries	21-23, 31-33, 42-81	57,615	32,958	276	1,276	361	5,855	756	1,479	1,496 i	13,158 i
Manufacturing industries	31-33	40,306	21,878	245	693	272	4,526	486	901	749	10,555 i
Food	311	227	148	1	3	1	15	6	6	12	36
Beverage and tobacco products	312	100 i	58 i	0	5 i	7 i	5 i	3 i	10 i	3 i	8 i
Textile, apparel, and leather products	313-16	21 i	14 i	0	0	0	5 i	0	0	* i	1 i
Wood products	321	11	5	* i	1	* i	2	* i	* i	* i	3
Paper	322	13 i	4 i	0	1	0	4 i	0	0	0	4 i
Printing and related support activities	323	28 i	15 i	1 i	0	* i	2 i	1 i	1 i	1 i	6 i
Petroleum and coal products	324	5	5	0	0	*	*	0	*	*	*
Chemicals	325	7,379	3,827	224	206	39	496	194	321	246	1,826
Basic chemicals	3251	317	186	*	6	8	40	11	12	4	51
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	111	74	0	*	*	*	*	*	*	36
Pesticide, fertilizer, and other agricultural chemicals	3253	366	179	0	D	* i	27	17	27	8 i	D
Pharmaceuticals and medicines	3254	6,534	3,363	224	156	30	425	166	282	234	1,653
Soap, cleaning compound, and toilet preparation	3256	11 i	5 i	0	*	0	2 i	0	0	* i	3 i
Paint, coating, adhesive, and other chemicals	3255, 3259	40	21	0	D	1	2	*	*	*	D
Plastics and rubber products	326	154 i	36 i	* i	1	9 i	100 i	* i	1 i	1 i	7 i
Nonmetallic mineral products	327	26 i	14 i	1 i	0	* i	2 i	1 i	1 i	1 i	6 i
Primary metals	331	19	11	0	0	0	7	*	*	*	1
Fabricated metal products	332	278 i	191 i	0	*	27 i	30 i	1 i	4 i	11 i	14 i
Machinery	333	558	303 i	1	11	20	80 i	16	20	6	101 i
Agricultural implement	33311	36	23	0	1	*	7	*	3	0	2
Semiconductor machinery	333295	97	44	1	3	1	14	10	12	1	11
Engine, turbine, and power transmission equipment	3336	113	50	0	3	3	11	1	1	4	40 i
Other machinery	other 333	312	185 i	* i	4	17	48 i	5 i	4	1 i	47 i
Computer and electronic products	334	9,841	6,449	17	276	82	1,152	94	378	202	1,190
Communications equipment	3342	1,964 i	1,491 i	* i	14	22 i	50 i	29 i	111 i	33 i	213 i
Semiconductor and other electronic components	3344	2,224	1,451	9	79	36	240	32	153	96	128
Navigational, measuring, electromedical, and control instruments	3345	5,477	3,392	8	161	23	851	29	110	73	831
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	164	92	*	7	2	40	4	1	*	18
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	5,069	3,130	8	140	20	798	24	83	72	795
Other measuring and controlling device	other 3345	245	170	*	14	1	13	1	26	1	18
Other computer and electronic products	other 334	176	115	0	22	1	12	4 i	4	1	18

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Electrical equipment, appliances, and components	335	475 i	308 i	* i	5	48 i	42 i	10 i	9 i	4 i	49 i
Transportation equipment	336	20,807 i	10,232 i	* i	178	36	2,537	156	146	257	7,265 i
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	2,647	1,355	* i	145	10	590	118	94	46	290
Aerospace products and parts	3364	17,072 i	8,342 i	0	32	22	1,737	23	37	183	6,696 i
Aircraft, aircraft engine, and aircraft parts	336411-13	D	D	0	D	21	D	D	37	182	6,591 i
Guided missile, space vehicle, and related parts	336414-15, 336419	D	D	0	D	1	D	D	*	*	105
Military armored vehicle, tank, and tank components	336992	2 i	1 i	0	0	0	1 i	0	0	0	0
Other transportation	other 336	1,086	535 i	0	1 i	4 i	209 i	16 i	15 i	28 i	279 i
Furniture and related products	337	1 i	* i	0	0	* i	* i	* i	* i	* i	* i
Miscellaneous manufacturing	339	362	258	1	6	4	44	4	4	3	39
Medical equipment and supplies	3391	317	224	1	5	4	38	4	4	3	34
Other miscellaneous manufacturing	3399	46 i	34 i	0	1	0	6 i	0	0	* i	5 i
Nonmanufacturing industries	21-23, 42-81	17,310	11,079	31	583	89	1,330	270	578 i	747 i	2,603
Mining, extraction, and support activities	21	395	214	2	19	*	35	13	4	1	109
Utilities	22	50	19	2	9	*	1	*	0	17	2 i
Wholesale trade	42	18 i	18 i	0	0	0	*	0	0	0	*
Electronic shopping and electronic auctions	454111-12	1 i	1 i	0	0	0	0	0	0	0	0
Transportation and warehousing	48-49	D	D	0	0	* i	D	D	* i	0	D
Information	51	1,168	879	1	20	*	187	13	10	7	51 i
Publishing	511	1,038	768	*	16	*	182	12	8	3	48 i
Newspaper, periodical, book, and directory publishers	5111	1 i	1 i	0	0	0	* i	* i	* i	* i	* i
Software publishers	5112	1,037	767	*	16	*	182	12	8	3	48 i
Telecommunications	517	4 i	2 i	* i	*	0	1 i	*	* i	* i	*
Data processing, hosting, and related services	518	113	97 i	0	3	* i	4 i	1 i	1 i	4 i	2
Other information	other 51	14	11	1	1	0	* i	* i	* i	*	*
Finance and insurance	52	10	10	0	0	0	0	0	0	0	0
Real estate and rental and leasing	53	* i	* i	0	0	0	0	0	0	0	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	0	0	0	0	0	0	0	0	0
Other real estate and rental and leasing	other 53	* i	* i	0	0	0	0	0	0	0	0
Professional, scientific, and technical services	54	15,400	9,757	26	532	87	1,068	241	558 i	722 i	2,410
Architectural, engineering, and related services	5413	1,872	1,307 i	0	11	4 i	44 i	18 i	5 i	6 i	477
Computer systems design and related services	5415	1,161 i	1,010 i	* i	7	* i	37 i	13 i	7 i	8 i	80 i
Scientific research and development services	5417	11,363	6,785	25	410	78	925	186	534 i	703 i	1,717
Biotechnology research and development	541711	3,168 i	1,924	12	99	14	307	55	131	378 i	248

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Physical, engineering, and life sciences (except biotechnology) research and development	541712	7,440	4,319	4	295	59 i	616	115	397 i	322 i	1,312
Social sciences and humanities research and development	541720	756	542	9	16	6	1	16	6	4	156
Other professional, scientific, and technical services	other 54	1,003	655	*	104	4	64	23	12	4 i	137
Health care services	621-23	96	53 i	*	2	* i	23	2 i	6	* i	10 i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	D	0	1	*	D	D	*	0	D
All companies (number of domestic employees)	-	57,615	32,958	276	1,276	361	5,855	756	1,479	1,496 i	13,158 i
Small companies ^a											
5-499	-	10,897	7,284	37	241	122 i	1,138	286	287	212	1,290
5-99	-	6,262 i	4,227 i	18 i	132	60 i	688 i	135	139 i	97 i	766 i
5-49	-	4,513 i	3,057 i	12 i	85	38 i	553	88	111 i	74 i	495 i
5-9	-	1,207 i	875 i	2 i	33	11 i	107 i	28	19 i	16 i	117 i
10-24	-	1,605 i	1,088 i	4 i	31	10 i	175 i	32 i	27 i	35	204 i
25-49	-	1,700	1,094	6 i	21	17 i	271	29	65	23 i	173 i
50-99	-	1,749	1,170 i	6	47	22 i	136 i	47	28	22 i	272
100-249	-	2,743	1,841	5 i	57	29 i	289	94	63	75	290
250-499	-	1,892	1,216	13	53	34 i	161	56	85	40	234
Medium and large companies											
500-999	-	1,722	1,058	17	38	22	219	26	120 i	24	197
1,000-4,999	-	10,175	5,698	175	295	89	860	201	418	756 i	1,684
5,000-9,999	-	6,505	3,793	31	329	36	584	108	370	128	1,126
10,000-24,999	-	6,942	4,097	3 i	205	44 i	1,057	70	137 i	227	1,102
25,000 or more	-	21,374 i	11,028 i	13 i	168	49	1,997	64 i	147	150	7,758 i

* = amount < \$500,000; 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.

NAICS = 2007 North American Industry Classification System.

^a Upper bound based on U.S. Small Business Administration's definition of a small business; Business R&D and Innovation Survey 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 the 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, 2013.