

TABLE 24. Domestic R&D paid for by the U.S. federal government and performed by the company, by character of work, industry, and company size: 2011
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Basic research	Applied research	Development
All industries	21–23, 31–33, 42–81	31,309 i	677	4,404	26,228 i
Manufacturing industries	31–33	24,698 i	194 i	1,992 i	22,512 i
Food	311	17	0	10	7
Beverage and tobacco products	312	D	0	0	D
Textile, apparel, and leather products	313–316	D	0	0	D
Wood products	321	0	0	0	0
Printing and related support activities	323	1	0	*	*
Chemicals	325	110	9	31	69
Pharmaceuticals and medicines	3254	52	3	7	42
Other chemicals	other 325	58	6	24	28
Plastics and rubber products	326	8	1	*	7
Nonmetallic mineral products	327	25	3	14	9
Primary metals	331	D	D	1	12
Fabricated metal products	332	D	0	D	12
Machinery	333	522	D	81 i	D
Computer and electronic products	334	5,161	85	586	4,491 i
Semiconductor and other electronic components	3344	89	4	11	74
Navigational, measuring, electromedical, and control instruments	3345	4,276	80	573	3,623
Other computer and electronic products	other 334	796 i	1	2	793 i
Electrical equipment, appliances, and components	335	76	1	23	52 i
Transportation equipment	336	D	D	1,230 i	17,353 i
Aerospace products and parts	3364	17,806 i	44 i	990 i	16,773 i
Other transportation equipment	other 336	D	D	240 i	580
Furniture and related products	337	*	0	0	*
Miscellaneous manufacturing	322, 324, 339	73	D	D	60
Nonmanufacturing industries	21–23, 42–81	6,611	483	2,412	3,716
Information	51	D	*	70	D
Publishing	511	136	*	70	66
Telecommunications	517	D	0	0	D
Data processing, hosting, and related services	518	D	0	*	D
Other information	other 51	0	0	0	0
Professional, scientific, and technical services	54	5,848	461	1,831	3,556
Architectural, engineering, and related services	5413	1,123 i	24	155	945 i
Computer systems design and related services	5415	598	68	87	443
Scientific research and development services	5417	3,226	317	1,437	1,471
Biotechnology research and development	541711	406	29	114	263
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,280	250	954	1,076
Social sciences and humanities research and development	541720	540	39 i	369 i	132 i
Other professional, scientific, and technical services	other 54	902	52 i	152	697 i
Other nonmanufacturing	21–23, 42–49, 52, 53, 55–81	D	22	512	D
All companies (number of domestic employees)	–	31,309 i	677	4,404	26,228 i
Small companies ^a					
5–499	--	3,938	376	1,128	2,434
5–99	--	2,766	206	750	1,810
5–49	–	2,065	179	604	1,282
5–9	–	533	62	211	259
10–24	–	795	73	208	514
25–49	–	738	43	185	509
50–99	–	701	27	146	528
100–249	–	814	111	232	471
250–499	–	358	59	146	153
Medium and large companies					
500–999	–	377	25	114	238

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1,000–4,999	–	1,702	57 i	756 i	889 i
5,000–9,999	–	476	1	24	451
10,000–24,999	–	3,577	39 i	155 i	3,383 i
25,000 or more	–	21,240 i	180 i	2,228 i	18,833 i

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = value > 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, 2011.