

TABLE 56. Domestic R&D paid for and performed by the company, by character of work, industry, and company size: 2009  
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Character of work		
			Basic research	Applied research	Development
All industries	21-23, 31-33, 42-81	224,920	12,206	29,769	182,945
Manufacturing industries	31-33	158,225	9,356	21,673	127,196
Food	311	4,030	251	1,282	2,497
Beverage and tobacco products	312	475	35	61	379
Textiles, apparel, and leather products	313-316	420	26	51	342
Wood products	321	495	20 i	107 i	369 i
Printing and related support activities	323	194	10	28	156
Chemicals	325	49,876	4,348	8,500	37,028
Pharmaceuticals and medicines	3254	41,751	3,948	6,842	30,961
Other chemicals	other 325	8,125	401	1,658	6,067
Plastics and rubber products	326	2,329	184	572	1,573
Nonmetallic mineral products	327	1,077 i	122 i	101 i	855 i
Primary metals	331	593	27	119	447
Fabricated metal products	332	1,931	54	228	1,649
Machinery	333	8,782	326	1,041	7,415
Computer and electronic products	334	48,865	2,616	5,005	41,243
Semiconductor and other electronic components	3344	19,420	309	2,121	16,990
Navigational, measuring, electromedical, and control instruments	3345	9,944	509	1,284	8,151
Other computer and electronic products	other 334	19,501	1,798	1,600	16,102
Electrical equipment, appliances, and components	335	3,105	82	503	2,520
Transportation equipment	336	24,223	790	2,175	21,258
Aerospace products and parts	3364	12,384	253	1,023	11,108
Other transportation equipment	other 336	11,840	537	1,153	10,150 i
Furniture and related products	337	393	14	44	336
Miscellaneous manufacturing	322, 324, 339	11,436	451	1,856	9,128
Nonmanufacturing industries	21-23, 42-81	66,695	2,850	8,096	55,749
Information	51	32,995	1,509	2,386	29,100
Publishing	511	26,412	1,295	1,796	23,320
Telecommunications	517	1,414	37	290 i	1,088 i
Data processing, hosting, and related services	518	2,675	84	161	2,430
Other information	other 51	2,494	92	140	2,262
Professional, scientific, and technical services	54	26,031	1,040	4,354	20,637
Architectural, engineering, and related services	5413	1,223	21	140	1,063
Computer systems design and related services	5415	10,742	266	1,178	9,297
Scientific R&D services	5417	7,981	660	2,793	4,528
Biotechnology R&D	541711	5,461	493	2,091	2,878
Physical, engineering, and life sciences (except biotechnology) R&D	541712	2,469	163	679	1,627
Social sciences and humanities R&D	541720	51	5	23	23
Other professional, scientific, and technical services	other 54	6,085	93	243	5,749
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	7,669	302	1,356	6,012
All companies (number of employees) <sup>a</sup>	-	224,920	12,206	29,769	182,945
Small companies (number of employees) <sup>a</sup>	-	-	-	-	-
5-499	-	44,258	1,827	6,711	35,719
5-99	-	25,427	1,016	3,948	20,463
5-49	-	17,135	721	2,731	13,683
5-24	-	9,257	398	1,528	7,332
25-49	-	7,877	324	1,203	6,350
50-99	-	8,292	295	1,217	6,780
100-249	-	10,459	442	1,475	8,542
250-499	-	8,372	368	1,289	6,714
Medium and large companies (number of employees)	-	-	-	-	-
500-999	-	8,577	521	1,257	6,799
1,000-4,999	-	38,383	1,612	5,339	31,432

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			Basic research	Applied research	Development
5,000–9,999	–	17,585	757	2,317	14,511
10,000–24,999	–	42,191	4,023	6,112	32,055
25,000 or more	–	73,927	3,466	8,033	62,428

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.