

TABLE 63. Domestic R&D paid for by the company and others 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	282,393	14,784	41,055	226,554
Manufacturing industries	31-33	195,144	10,045	24,882	160,217
Food	311	4,192	252	1,316	2,624
Beverage and tobacco products	312	477	35	61	381
Textiles, apparel, and leather products	313-316	428	27	52	349
Wood products	321	512	20 i	107 i	386 i
Printing and related support activities	323	195	10	28	157
Chemicals	325	53,328	4,472	8,902	39,955
Pharmaceuticals and medicines	3254	44,936	4,057	7,149	33,730
Other chemicals	other 325	8,392	415	1,753	6,225
Plastics and rubber products	326	2,468	198	581	1,689
Nonmetallic mineral products	327	1,100 i	127 i	103 i	870 i
Primary metals	331	837	27	121	689
Fabricated metal products	332	2,040	54	238	1,748
Machinery	333	9,138	351	1,136	7,651
Computer and electronic products	334	56,436	3,007	5,914	47,515
Semiconductor and other electronic components	3344	19,983	319	2,165	17,499
Navigational, measuring, electromedical, and control instruments	3345	14,859	843	1,918	12,098
Other computer and electronic products	other 334	21,595	1,846	1,830	17,919
Electrical equipment, appliances, and components	335	3,334	87	541	2,706
Transportation equipment	336	48,337	890	3,811 i	43,636 i
Aerospace products and parts	3364	34,554	339	2,498 i	31,717 i
Other transportation	other 336	13,783	551	1,313	11,919 i
Furniture and related products	337	396	14	44	339
Miscellaneous manufacturing	322, 324, 339	11,925	476	1,926	9,523
Nonmanufacturing industries	21-23, 42-81	87,248	4,738	16,174	66,336
Information	51	33,806	1,535	2,513	29,757
Publishing	511	27,077	1,322	1,920	23,835
Telecommunications	517	1,496	37	290 i	1,169 i
Data processing, hosting, and related services	518	2,735	85	162	2,489
Other information	other 51	2,497	92	141	2,264
Professional, scientific, and technical services	54	44,946	2,864	12,198	29,884
Architectural, engineering, and related services	5413	3,281	61	408	2,811
Computer systems design and related services	5415	12,560	319	1,284	10,957
Scientific research and development services	5417	17,270	2,248	5,586	9,435
Biotechnology R&D	541711	8,259	1,128	2,631	4,500
Physical, engineering, and life sciences (except biotechnology) R&D	541712	8,297	497	2,911	4,888
Social sciences and humanities R&D	541720	714	623	44	47
Other professional, scientific, and technical services	other 54	11,836	236 i	4,919	6,680
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	8,497	339	1,462	6,696
All companies	-	282,393	14,784	41,055	226,554
Small companies (number of domestic employees) <sup>a</sup>					
5-499	-	58,719	2,632	13,165	42,922
5-99	-	34,769	1,549	8,281	24,938
5-49	-	21,486	1,071	3,648	16,768
5-24	-	11,794	612	2,073	9,109
25-49	-	9,692	459	1,575	7,658
50-99	-	13,282	478	4,633	8,171
100-249	-	12,747	594	2,052	10,100
250-499	-	11,204	489	2,832 i	7,883
Medium and large companies (number of domestic employees)					
500-999	-	10,119	846	1,699	7,575
1,000-4,999	-	44,008	2,253	6,062	35,692

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5,000–9,999	–	21,864	1,006	3,386	17,472
10,000–24,999	–	51,037	4,271	7,257	39,509
25,000 or more	–	96,645	3,775	9,487	83,383

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.