

TABLE A-10. Funds for industrial R&D, sales, and employment for companies performing industrial R&D in the United States, by revised industry and company size, by original and revised industry classification methodologies: 2004

Industry and company size	NAICS codes	All R&D		Federal		Company and other	
		Original methodology	Revised methodology	Original methodology	Revised methodology	Original methodology	Revised methodology
\$millions							
All industries	21–23, 31–33, 42, 44–81	208,301	208,301	20,266	20,266	188,035	188,035
Manufacturing industries	31–33	109,455	147,288	15,345	15,401	94,110	131,887
Food	311	2,122	2,254	4	5	2,119	2,249
Beverage and tobacco products	312	546 i	555 i	0	0	546 i	555 i
Textiles, apparel, and leather	313–16	344	570	3	3	341	568
Wood products	321	D	D	D	D	148	152
Paper, printing, and support activities	322, 323	D	D	D	D	2,307	2,308
Petroleum and coal products	324	D	1,603	D	9	1,349	1,595
Chemicals	325	D	D	D	D	22,682	39,070
Basic chemicals	3251	2,228	2,393	80	80	2,148	2,312
Resin, synthetic rubber, fibers, and filament	3252	2,059	2,096	16	16	2,043	2,080
Pharmaceuticals and medicines	3254	15,935	31,477	29	33	15,906	31,444
Other chemicals	other 325	D	D	D	D	2,586	3,234
Plastics and rubber products	326	D	D	D	D	1,875	1,879
Nonmetallic mineral products	327	787	787	5	5	782	783
Primary metals	331	713	727	21	21	691	705
Fabricated metal products	332	1,506	1,512	47	47	1,459	1,465
Machinery	333	6,422	6,579	104	105	6,318	6,473
Computer and electronic products	334	29,963	48,296	7,556	7,605	22,407	40,691
Computers and peripheral equipment	3341	2,543	5,734	26	27	2,517	5,707
Communications equipment	3342	D	D	D	D	3,356	8,433
Semiconductor and other electronic components	3344	D	D	D	D	8,821	17,524
Navigational, measuring, electromedical, and control instruments	3345	14,079	15,214	7,332	7,332	6,747	7,882
Other computer and electronic products	other 334	968	1,148	3	3	965	1,144
Electrical equipment, appliances, and components	335	2,276	2,664	41	42	2,235	2,622
Transportation equipment	336	D	D	D	D	25,276	26,019
Motor vehicles, trailers, and parts	3361–63	14,969	15,677	67	67	14,903	15,610
Aerospace products and parts	3364	13,086	13,086	3,862	3,862	9,224	9,224
Other transportation equipment	other 336	D	D	D	D	1,149	1,185
Furniture and related products	337	408	408	2	2	406	406
Miscellaneous manufacturing	339	3,208	4,388	39	39	3,169	4,348
Medical equipment and supplies	3391	2,383	3,343	30	30	2,354	3,313
Other miscellaneous manufacturing	other 339	825	1,045	10	10	815	1,035

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Industry and company size	NAICS codes	All R&D		Federal		Company and other	
		Original methodology	Revised methodology	Original methodology	Revised methodology	Original methodology	Revised methodology
\$millions							
Nonmanufacturing industries	21–23, 42, 44–81	98,846	61,013	4,921	4,865	93,925	56,148
Mining, extraction, and support activities	21	D	D	D	D	714	714
Utilities	22	202	202	26	26	176	176
Construction	23	1,417	1,481	15	15	1,402	1,466
Wholesale trade	42	D	D	D	D	38,576	1,540
Retail trade	44, 45	1,486	1,596	0	0	1,486	1,596
Transportation and warehousing	48, 49	D	D	D	D	342	347
Information	51	20,956	22,593	307	307	20,649	22,285
Publishing	511	D	D	D	D	15,837	17,273
Newspaper, periodical, book, and database	5111	763	763	0	0	763	763
Software	5112	D	D	D	D	15,074	16,510
Broadcasting and telecommunications	513	2,097	2,215	0	0	2,097	2,215
Telecommunications	5133	2,016	2,052	0	0	2,016	2,052
Other broadcasting and telecommunications	other 513	82	163	0	0	82	163
Other information	other 51	D	D	D	D	2,715	2,797
Finance, insurance, and real estate	52, 53	1,535	1,708	0	0	1,535	1,708
Professional, scientific, and technical services	54	27,299	28,709	4,355	4,464	22,944	24,245
Architectural, engineering, and related services	5413	4,229	4,265	1,970	1,970	2,259	2,295
Computer systems design and related services	5415	6,309	11,575	234	378	6,074	11,197
Scientific R&D services	5417	15,264	11,355	2,007	1,972	13,258	9,383
Other professional, scientific, and technical services	other 54	1,496	1,514	144	144	1,353	1,370
Health care services	621–23	500	500	5	5	495	495
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	5,674	1,595	68	19	5,605	1,576

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Industry and company size	NAICS codes	All R&D		Federal		Company and other	
		Original methodology	Revised methodology	Original methodology	Revised methodology	Original methodology	Revised methodology
\$millions							
Company size (employees)							
All companies	-	208,301	208,301	20,266	20,266	188,035	188,035
5-24	-	6,295	6,295	685	685	5,610	5,610
25-49	-	5,906	5,906	612	612	5,293	5,293
50-99	-	6,456	6,456	608	608	5,849	5,849
100-249	-	11,045	11,045	1,058	1,058	9,987	9,987
250-499	-	8,380	8,380	547	547	7,832	7,832
500-999	-	10,821	10,821	762	762	10,060	10,060
1,000-4,999	-	31,475	31,475	493	493	30,982	30,982
5,000-9,999	-	18,191	18,191	2,018	2,018	16,173	16,173
10,000-24,999	-	31,208	31,208	1,561	1,561	29,647	29,647
25,000 or more	-	78,523	78,523	11,923	11,923	66,600	66,600

TABLE A-10. Funds for industrial R&D, sales, and employment for companies performing industrial R&D in the United States, by revised industry and company size, by original and revised industry classification methodologies: 2004

Industry and company size	NAICS codes	Domestic net sales		R&D scientists and engineers <sup>a</sup>		Domestic employment (March)	
		Original methodology	Revised methodology	Original methodology	Revised methodology	Original methodology	Revised methodology
		\$millions		Thousands			
All industries	21–23, 31–33, 42, 44–81	5,601,729	5,601,729	1,111.3	1,111.3	14,820	14,820
Manufacturing industries	31–33	3,372,725	3,871,294	544.7	717.0	8,507	9,399
Food	311	330,450	347,396	11.1	11.7	844	876
Beverage and tobacco products	312	40,351	43,292	4.6 i	4.7 i	96	100
Textiles, apparel, and leather	313–16	39,013	48,859	4.2 i	5.8	234	256
Wood products	321	22,841	35,066	D	D	101	151
Paper, printing, and support activities	322, 323	155,753	155,801	D	D	475	475
Petroleum and coal products	324	408,826	408,956	D	D	168	169
Chemicals	325	418,210	595,292	71.5	118.6	811	1,073
Basic chemicals	3251	105,834	109,200	10.2	10.6	173	179
Resin, synthetic rubber, fibers, and filament	3252	63,950	67,610	9.3	9.4	96	100
Pharmaceuticals and medicines	3254	160,630	315,180	37.2	79.9	276	469
Other chemicals	other 325	87,796	103,302	14.8	18.6	266	325
Plastics and rubber products	326	116,771	120,670	14.0	14.1	426	429
Nonmetallic mineral products	327	43,044	43,155	6.5 i	6.5 i	178	179
Primary metals	331	98,434	101,868	4.9	4.9	268	274
Fabricated metal products	332	102,206	102,935	15.6	15.7	479	482
Machinery	333	170,369	178,618	60.9	62.6	648	665
Computer and electronic products	334	295,406	506,103	160.1	273.3	990	1,373
Computers and peripheral equipment	3341	51,670	122,494	14.9	45.1	88	247
Communications equipment	3342	39,384	88,381	23.8	49.9	144	210
Semiconductor and other electronic components	3344	93,131	162,398	46.5 i	97.4	305	411
Navigational, measuring, electromedical, and control instruments	3345	99,908	110,416	69.3 i	74.6 i	419	450
Other computer and electronic products	other 334	11,314	22,415	5.6	6.2	34	55
Electrical equipment, appliances, and components	335	88,917	95,715	17.3	19.4	322	345
Transportation equipment	336	918,515	946,474	131.8	134.1	1,937	1,956
Motor vehicles, trailers, and parts	3361–63	618,332	643,079	D	D	1,027	1,039
Aerospace products and parts	3364	228,018	228,018	37.9	37.9	622	622
Other transportation equipment	other 336	72,165	75,377	D	D	288	295
Furniture and related products	337	51,578	51,578	2.9	2.9	241	241
Miscellaneous manufacturing	339	72,040	89,515	18.9	21.8	289	355
Medical equipment and supplies	3391	45,513	56,713	11.8	13.9	168	211
Other miscellaneous manufacturing	other 339	26,527	32,802	7.0	7.9	120	143

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Industry and company size	NAICS codes	Domestic net sales		R&D scientists and engineers <sup>a</sup>		Domestic employment (March)	
		Original methodology	Revised methodology	Original methodology	Revised methodology	Original methodology	Revised methodology
		\$millions		Thousands			
Nonmanufacturing industries	21–23, 42, 44–81	2,229,003	1,730,435	566.6	394.3	6,314	5,421
Mining, extraction, and support activities	21	29,543	29,753	D	D	96	97
Utilities	22	170,637	170,637	0.8	0.8	255	255
Construction	23	51,859	56,118	D	D	156	160
Wholesale trade	42	566,333	68,879	189.1	15.5	1,202	155
Retail trade	44, 45	182,334	191,632	15.0	15.3	585	603
Transportation and warehousing	48, 49	74,198	74,235	D	D	597	597
Information	51	409,995	445,652	123.9	131.5	1,104	1,233
Publishing	511	83,174	90,234	91.9	98.5	313	343
Newspaper, periodical, book, and database	5111	19,230	19,230	4.8	4.8	105	105
Software	5112	63,944	71,004	87.1	93.7	208	238
Broadcasting and telecommunications	513	264,250 i	291,646	10.5	10.9	607 i	697 i
Telecommunications	5133	D	D	10.2	10.4	D	D
Other broadcasting and telecommunications	other 513	D	D	*	*	D	D
Other information	other 51	62,571	63,772	21.5	22.0	184	192
Finance, insurance, and real estate	52, 53	438,244	440,122	20.5	22.3	849	857
Professional, scientific, and technical services	54	154,090	185,812	161.3	174.1	763	957
Architectural, engineering, and related services	5413	34,378	34,885	41.1	41.4	154	157
Computer systems design and related services	5415	56,205	95,541	51.8	74.5	277	485
Scientific R&D services	5417	39,975	31,729	55.1	44.7	180	163
Other professional, scientific, and technical services	other 54	23,531	23,658	13.4	13.5	152	152
Health care services	621–23	27,638	27,638	6.0 i	6.0 i	160	160
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	124,133	39,957	32.5	10.9	547	348

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		Original methodology	Revised methodology	Original methodology	Revised methodology	Original methodology	Revised methodology
		\$millions		Thousands			
Company size (employees)							
All companies	-	5,601,729	5,601,729	1,111.3	1,111.3	14,820	14,820
5-24	-	111,868 i	111,868 i	66.2	66.2	240	240
25-49	-	46,138	46,138	43.4	43.4	236	236
50-99	-	101,559	101,559	44.1	44.1	356	356
100-249	-	180,436	180,436	73.1	73.1	635	635
250-499	-	152,243	152,243	52.3	52.3	545	545
500-999	-	217,014	217,014	59.3	59.3	610	610
1,000-4,999	-	828,300	828,300	173.8	173.8	2,325	2,325
5,000-9,999	-	571,170	571,170	96.6	96.6	1,373	1,373
10,000-24,999	-	993,497	993,497	178.9	178.9	2,243	2,243
25,000 or more	-	2,399,505	2,399,505	323.6	323.6	6,258	6,258

\* = amount < 50; D = suppressed to avoid disclosure of confidential information; i = more than 50% of the value is imputed; NA = not available; - = not applicable.

<sup>a</sup> Data recorded each year in January represent employment for the previous year.

NOTES: Estimates for management of companies and enterprises (NAICS 55) are not shown separately, but included in other manufacturing. Excludes federally funded research and development centers. For definitions and more information about year-to-year comparability of the statistics, see technical notes and survey methodology.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2004.