

TABLE 2. Summary data for companies performing industrial R&D in the United States, by industry and size of company: 2001–2002

Industry and size of company	NAICS codes	Research and development funds						Domestic net sales		R&D scientists and engineers (January) ^b		Domestic employment (March)	
		Total ^a		Federal ^a		Company and other		2001	2002	2002	2003	2001	2002
		2001	2002	2001	2002	2001	2002						
Distribution by industry:		Millions of dollars								Thousands			
All industries	21-23, 31-33, 42, 44-81	198,505	190,809	16,899	16,401	181,606	174,408	4,835,140	4,903,345	1060.2	1,066.1	16,749	15,415
Manufacturing	31-33	120,705	108,985	11,484	10,745	109,221	98,240	3,012,938	3,028,003	615.8	585.8	9,913	9,089
Food	311	1,819	(D)	(D)	(D)	1,818	2,034	384,846	314,176	12.2	12.9	1,192	991
Beverage and tobacco products	312	152	170	-	-	152	170	37,026	33,910	0.9	1.0	59	57
Textiles, apparel, and leather	313-16	(D)	(D)	(D)	(D)	255	248	30,929	29,308	2.5	2.5	229	186
Wood products	321	182	(D)	(D)	(D)	181	132	17,041	18,691	2.0 (S)	(D)	92	94
Paper, printing and support activities	322, 323	(D)	(D)	(D)	(D)	2,664	2,620	125,696	204,814	11.1	17.9	611	585
Petroleum and coal products	324	(D)	(D)	(D)	(D)	1,057	1,233	311,244	304,747	2.8 (S)	4.3 (S)	168	179
Chemicals	325	17,892	20,641	180	246	17,713	20,395	368,728	343,723	81.5	86.9	838	837
Basic chemicals	3251	1,876	1,782	42	72	1,835	1,710	83,452	67,183	9.3	8.5	169	154
Resin, synthetic rubber, fibers, and filament	3252	(D)	2,426	(D)	13	2,745	2,413	60,396	61,452	11.1	12.8	118	122
Pharmaceuticals and medicines	3254	10,137	(D)	-	(D)	10,137	14,186	130,287	147,175	39.6	51.8	289	355
Other chemicals	325 minus (3251-52, 3254)	(D)	(D)	(D)	(D)	2,996	2,087	94,593	67,913	21.5 (S)	13.9	262	207
Plastics and rubber products	326	(D)	(D)	(D)	(D)	2,245	1,508	78,730	84,089	11.5	11.0	451	468
Nonmetallic mineral products	327	990	(D)	11	(D)	978	420	41,766	33,945	6.9	(D)	273	145
Primary metals	331	485	473	6	12	479	461	72,413	70,718	4.7	4.0 (S)	311	260
Fabricated metal products	332	1,599	1,355	54	104	1,545	1,251	94,141	89,406	10.1	13.1	517	477
Machinery	333	6,404	6,429	67	62	6,337	6,366	150,306	147,148	55.9	56.5	764	740
Computer and electronic products	334	47,079	35,777	5,848	5,470	41,232	30,307	379,342	401,273	256.7 (S)	209.6	1,420	1,259
Computers and peripheral equipment	3341	(D)	3,040	(D)	25	3,165	3,015	41,383	40,409	15.6	15.1	112	83
Communications equipment	3342	15,507	6,635	298	215	15,209	6,420	91,381	55,294	90.6 (S)	40.9 (S)	284	175
Semiconductor and other electronic components	3344	14,358	11,919	148	48	14,210	11,871	135,597	138,596	83.3	73.3	501	404
Navigational, measuring, electromedical, and control instruments	3345	12,947	13,729	5,382	5,180	7,565	8,549	102,942	158,397	63.5 (S)	75.9	491	574
Other computer and electronic products	334 minus (3341-42, 3344-45)	(D)	453	(D)	1	1,083	452	8,038	8,576	3.7	4.4	32	23
Electrical equipment, appliances, and components	335	4,980	2,039	301 (S)	61	4,680	1,978	162,732 (S)	72,859	33.6	14.0	550	324
Transportation equipment	336	25,965	26,145	4,961	4,692	21,004	21,452	625,167	753,734	99.5	123.1	1,759	1,907
Motor vehicles, trailers, and parts	3361-63	(D)	(D)	(D)	(D)	16,089	15,199	455,455	487,740	73.5	83.2	1,065	987
Aerospace products and parts	3364	7,868	9,654	3,785	4,306	4,083	5,349	137,052	234,840	19.1	32.5	538	785
Other transportation equipment	336 minus (3361-64)	(D)	(D)	(D)	(D)	832 (S)	905	32,659	31,154	6.9 (S)	7.3 (S)	157	135

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		2001	2002	2001	2002	2001	2002	2001	2002	2002	2003	2001	2002
Distribution by industry:		Millions of dollars								Thousands			
Furniture and related products	337	301	258	-	7	301	251	32,825	31,772	2.2	2.0	247	200
Miscellaneous manufacturing	339	6,606	7,457	25	44	6,581	7,414	100,006	93,692	21.9	22.6	431	379
Medical equipment and supplies	3391	(D)	(D)	(D)	(D)	5,903	6,179	65,846	63,537	15.7	14.4	246	227
Other miscellaneous manufacturing	339 minus (3391)	(D)	(D)	(D)	(D)	678	1,235	34,160	30,155	6.2	8.2	185	152
Other manufacturing	31-33 minus (311-16, 321-27, 331-37, 339)	--	--	--	--	--	--	--	--	--	--	--	--
Distribution by industry:													
Nonmanufacturing	21-23, 42, 44-81	77,799	81,824	5,415	5,656	72,384	76,168	1,822,202	1,875,341	444.4	480.3	6,836	6,326
Mining, extraction, and support activities	21	(D)	(D)	(D)	(D)	846	715	64,140	22,181	4.9	(D)	113	85
Utilities	22	133	(D)	19	(D)	114	117	274,151	173,480	0.6	0.5	299	270
Construction	23	320	164	1	-	320	164	22,822	25,426	2.1	1.0	99	91
Wholesale trade	42	(NA)	(D)	(NA)	(D)	(NA)	24,082	(NA)	337,929	(NA)	126.6	(NA)	957
Professional and commercial equipment including computers	4214	(NA)	(D)	(NA)	(D)	(NA)	11,771	(NA)	125,305	(NA)	73.0	(NA)	477
Electrical goods	4216	(NA)	(D)	(NA)	(D)	(NA)	3,980	(NA)	49,960	(NA)	23.6	(NA)	128
Drugs and druggists' sundries	4222	(NA)	(D)	(NA)	(D)	(NA)	6,811	(NA)	72,150	(NA)	20.1	(NA)	115
Other wholesale trade	42 minus (4214, 4216, 4222)	(NA)	1,521	(NA)	1	(NA)	1,520	(NA)	90,515	(NA)	9.8	(NA)	237
Retail trade	44, 45	(NA)	932	(NA)	-	(NA)	932	(NA)	158,289	(NA)	7.9	(NA)	530
Transportation and warehousing	48, 49	1,848	(D)	72	(D)	1,776	339	72,515	71,288	0.7	(D)	650	707
Information	51	(D)	17,870	(D)	106	17,259	17,764	388,770	443,897	119.4	117.0	1,493	1,399
Publishing	511	13,760	13,541	44	53	13,716	13,488	91,172	82,487	86.7	85.1	392	450
Newspaper, periodical, book, and database	5111	649	614	-	-	649	614	23,620	22,307	5.5	4.3	145	140
Software	5112	13,111	12,927	44	53	13,067	12,874	67,552	60,180	81.1	80.8	247	311
Broadcasting and telecommunications	513	(D)	(D)	(D)	(D)	1,270	1,637	249,287	231,311 (S)	13.5	8.6 (S)	(D)	728 (S)
Radio and television broadcasting	5131	(D)	(D)	-	-	(D)	(D)	(D)	(D)	(D)	0.0	(D)	2
Telecommunications	5133	(D)	(D)	(D)	(D)	1,101	1,608	234,848	230,679 (S)	11.7	8.5 (S)	827	725 (S)
Other broadcasting and telecommunications	513 minus (5131, 5133)	(D)	(D)	-	-	(D)	(D)	(D)	(D)	(D)	0.1	(D)	1
Other information	51 minus (511, 513)	(D)	(D)	(D)	(D)	2,273	2,639	48,311	130,099	(D)	23.3	(D)	220

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Distribution by industry:													Thousands	
Millions of dollars														
Finance, insurance, and real estate	52, 53	(D)	1,903	(D)	-	2,424	1,903	323,250	343,709	19.9	18.9	789	711	
Professional, scientific, and technical services	54	27,704	30,358	5,065	5,412	22,640	24,946	165,299	223,013	152.9	181.8	900	956	
Architectural, engineering, and related services	5413	3,386	4,159	1,021	1,337	2,365	2,822	45,221	53,594	23.7	32.2	225	250	
Computer systems design and related services	5415	9,154	11,983	498	1,590	8,656	10,394	52,466	72,495	62.8	90.8	290	333	
Scientific R&D services	5417	14,244	13,034	3,352	2,299	10,893	10,735	29,858	61,103	59.9	50.0	164	159	
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	920	1,182	194	186	726	996	37,753	35,822	6.5	8.9	221	213	
Management of companies and enterprises	55	381	148	-	-	381	148	4,862	1,962	1.5	1.5	26	13	
Health care services	621-23	1,149	(D)	29	(D)	1,120	4,163	27,200	27,603	8.1	9.1	156	158	
Other nonmanufacturing	56, 61, 624, 71, 72, 81	1,259	(D)	38	(D)	1,221	894	85,826	46,563	20.0	10.8	748	450	
Distribution by size of company (number of employees):														
Total	(na)	198,505	190,809	16,899	16,401	181,606	174,408	4,835,140	4,903,345	1060.2	1,066.1	16,749	15,415	
5 to 24	(na)	4,828	4,261	653	789	4,175	3,471	32,242	48,993	34.4	60.0	159	144	
25 to 49	(na)	3,750	3,845	201	259	3,548	3,586	33,507	40,091	26.7	26.6	178	162	
50 to 99	(na)	8,202	6,164	548	463	7,654	5,701	73,288	79,880	40.4	38.4	360	280	
100 to 249	(na)	12,916	13,227	903	606	12,012	12,622	111,392	140,438	79.9	61.4	639	535	
250 to 499	(na)	8,702	8,055	560	686	8,143	7,370	101,466	185,592	47.6	46.4	520	546	
500 to 999	(na)	10,564	9,925	627	531	9,936	9,394	175,292	136,776	61.9	61.3	814	690	
1,000 to 4,999	(na)	26,748	28,625	608	985	26,140	27,640	627,725	682,463	159.1	165.5	2,333	2,326	
5,000 to 9,999	(na)	17,487	17,987	1,651	1,574	15,836	16,414	635,660	489,531	110.6 (S)	104.0	1,772	1,498	
10,000 to 24,999	(na)	27,065	26,458	904	1,226	26,161	25,232	753,055	872,414	144.3	158.3	2,397	2,414	
25,000 or more	(na)	78,244	72,261	10,243	9,282	68,001	62,979	2,291,513	2,227,168	355.2	344.2	7,577	6,820	

(D) = data have been withheld to avoid disclosing operations of individual companies; (S) = indicates imputation of more than 50 percent; (-) = indicates data not collected; (-) = indicates a value of zero or a value rounded to zero; (NA) = not available; (na) = not applicable.

^a Beginning with 2001, statistics for total and federally funded industrial R&D exclude data for federally funded research and development centers.

^b Data recorded in January represent employment figures for the previous year.

NOTE: For information on sampling for 1999–2002, see appendix A, Technical Notes.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2002.