

TABLE 8. Funds for industrial R&amp;D performance in the United States, by industry and size of company and by technology area: 2002

Industry and size of company	NAICS codes	Number of companies	Amount (millions of dollars)	Biotechnology R&D		Software development R&D		Materials synthesis and processing R&D		R&D in other technology areas		Undistributed R&D	
				Number of companies	Amount (millions of dollars)	Number of companies	Amount (millions of dollars)	Number of companies	Amount (millions of dollars)	Number of companies	Amount (millions of dollars)	Number of companies	Amount (millions of dollars)
Distribution by industry:													
All industries	21-23, 31-33, 42, 44-81	29,001	190,809	2,694	13,493	10,238	24,014	5,367	14,571	13,711	48,949	2,853	89,782
Manufacturing	31-33	14,043	108,985	752	4,973	2,665	3,390	4,273	11,850	7,826	32,792	1,709	55,979
Food	311	529	(D)	47	97	108	(D)	134	111	234	946	52	875
Beverage and tobacco products	312	57	170	0	-	31	2	2	(D)	43	60	15	(D)
Textiles, apparel, and leather	313-16	364	(D)	0	-	41	1	116	53	94	81	142	(D)
Wood products	321	90	(D)	0	-	13	1	41	83	35	45	18	(D)
Paper, printing and support activities	322, 323	396	(D)	2	(D)	118	52	145	105	114	190	36	2,299
Petroleum and coal products	324	79	(D)	1	(D)	1	(D)	37	(D)	36	207	7	768
Chemicals	325	1,242	20,641	316	4,102	34	205	528	2,612	399	3,596	106	10,125
Basic chemicals	3251	182	1,782	23	109	2	(D)	82	492	66	563	27	(D)
Resin, synthetic rubber, fibers, and filament	3252	82	2,426	3	9	0	-	55	109	29	234	8	2,074
Pharmaceuticals and medicines	3254	313	(D)	229	3,820	14	93	48	1,213	41	2,322	23	(D)
Other chemicals	325 minus (3251-52, 3254)	666	(D)	61	164	18	(D)	343	799	263	478	48	677
Plastics and rubber products	326	951	(D)	10	(D)	6	(z)	497	362	446	377	57	769
Nonmetallic mineral products	327	211	(D)	1	(D)	4	4	82	87	103	96	32	232
Primary metals	331	200	473	2	(D)	6	1	104	292	95	106	12	(D)
Fabricated metal products	332	1,382	1,355	118	14	200	58	545	207	833	699	237	377
Machinery	333	2,706	6,429	41	22	412	216	590	1,313	1,847	2,124	257	2,755
Computer and electronic products	334	2,808	35,777	101	143	1,172	1,815	593	4,635	1,848	11,008	249	18,176
Computers and peripheral equipment	3341	329	3,040	22	(D)	238	361	31	96	144	741	50	(D)
Communications equipment	3342	501	6,635	1	(D)	181	596	78	79	348	1,959	49	(D)
Semiconductor and other electronic components	3344	806	11,919	6	23	259	160	290	3,792	588	4,214	45	3,729
Navigational, measuring, electro-medical, and control instruments	3345	1,047	13,729	73	107	450	645	185	662	687	3,885	93	8,431
Other computer and electronic products	334 minus (3341-42, 3344-45)	125	453	0	-	43	54	9	5	80	208	11	186
Electrical equipment, appliances, and components	335	840	2,039	8	2	226	53	253	269	553	987	76	728
Transportation equipment	336	785	26,145	2	(D)	44	(D)	275	1,195	455	11,495	159	13,118

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			Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
			(millions of dollars)	of companies	(millions of dollars)	of companies	(millions of dollars)	of companies	(millions of dollars)	of companies	(millions of dollars)	of companies	(millions of dollars)
Distribution by industry:													
Motor vehicles, trailers, and parts	3361-63	488	(D)	1	(D)	17	46	160	1,014	293	6,556	117	7,642
Aerospace products and parts	3364	84	9,654	1	(D)	6	255	25	124	44	4,296	23	(D)
Other transportation equipment	336 minus (3361-64)	213	(D)	0	-	21	36	90	57	118	642	19	(D)
Furniture and related products	337	267	258	1	(D)	30	14	36	29	129	112	104	(D)
Miscellaneous manufacturing	339	1,136	7,457	100	562	220	603	294	261	565	663	150	5,369
Medical equipment and supplies	3391	557	(D)	87	542	164	79	146	131	253	302	45	(D)
Other miscellaneous manufacturing	339 minus (3391)	579	(D)	13	20	57	524	148	130	312	361	106	(D)
Other manufacturing	31-33 minus (311-16, 321-27, 331-37, 339)	--	--	--	--	--	--	--	--	--	--	--	--
Nonmanufacturing	21-23, 42, 44-81	14,958	81,824	1,942	8,519	7,573	20,624	1,095	2,721	5,886	16,157	1,144	33,803
Mining, extraction, and support activities	21	22	(D)	3	(D)	1	(D)	4	16	15	71	6	619
Utilities	22	285	(D)	2	(D)	5	3	3	(z)	26	66	257	64
Construction	23	300	164	0	-	180	12	30	22	85	27	7	103
Trade	42, 44, 45	2,837	(D)	431	2,157	859	4,058	231	1,633	1,585	4,914	117	(D)
Transportation and warehousing	48, 49	120	(D)	0	-	105	108	3	2	5	8	11	(D)
Information	51	1,726	17,870	4	1	1,495	8,174	130	103	111	1,453	108	8,139
Publishing	511	1,320	13,541	4	1	1,147	5,921	129	103	51	206	87	7,310
Newspaper, periodical, book, and database	5111	51	614	0	-	38	232	4	(z)	5	178	4	203
Software	5112	1,269	12,927	4	1	1,109	5,689	125	103	46	28	83	7,107
Broadcasting and telecommunications	513	112	(D)	0	-	88	248	1	(D)	20	(D)	8	677
Radio and television broadcasting	5131	4	(D)	0	-	0	-	0	-	4	(D)	0	-
Telecommunications	5133	93	(D)	0	-	75	230	0	-	15	(D)	7	667
Other broadcasting and telecommunications	513 minus (5131, 5133)	14	(D)	0	-	13	18	1	(D)	0	-	1	(D)
Other information	51 minus (511, 513)	294	(D)	0	-	260	2,005	0	-	41	(D)	13	152
Finance, insurance, and real estate	52, 53	463	1,903	15	4	173	1,284	3	(D)	11	84	265	(D)
Professional, scientific, and technical services	54	6,973	30,358	1,089	5,763	4,361	6,483	635	843	2,618	5,849	296	11,420

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Distribution by industry:													
Architectural, engineering, and related services	5413	1,392	4,159	443	357	422	886	39	55	729	1,451	50	1,410
Computer systems design and related services	5415	3,304	11,983	11	(D)	3,155	4,706	378	(D)	473	2,011	111	4,859
Scientific R&D services	5417	1,364	13,034	534	5,157	272	546	216	465	578	1,990	124	4,875
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	913	1,182	102	(D)	511	344	2	(D)	837	396	10	276
Management of companies and enterprises	55	35	148	1	(D)	1	(D)	3	(D)	28	52	2	(D)
Health care services	621-23	1,231	(D)	393	558	1	(D)	0	-	805	3,515	35	105
Other nonmanufacturing	56, 61, 624, 71, 72, 81	966	(D)	3	(D)	392	433	53	13	595	117	40	384
Distribution by company size (number of employees):													
Total	(na)	29,001	190,809	2,694	13,493	10,238	24,014	5,367	14,571	13,711	48,949	2,853	89,782
5 to 24	(na)	13,028	4,261	1,540	891	5,265	1,044	2,111	359	6,108	1,850	968	117
25 to 49	(na)	4,620	3,845	421	458	1,960	1,675	710	434	2,183	962	321	318
50 to 99	(na)	3,846	6,164	291	1,333	1,287	1,990	859	358	1,855	1,875	284	608
100 to 249	(na)	3,441	13,227	198	1,537	853	2,932	733	834	1,769	5,432	354	2,493
250 to 499	(na)	1,573	8,055	90	1,156	309	1,694	354	617	830	2,477	231	2,111
500 to 999	(na)	962	9,925	50	1,486	286	2,407	254	658	366	2,668	171	2,706
1,000 to 4,999	(na)	1,054	28,625	59	3,225	191	4,504	243	2,007	428	7,838	300	11,051
5,000 to 9,999	(na)	220	17,987	19	1,189	24	1,003	50	622	77	4,139	98	11,035
10,000 to 24,999	(na)	152	26,458	10	(D)	34	(D)	28	1,199	62	4,442	70	17,840
25,000 or more	(na)	105	72,261	14	(D)	29	(D)	25	7,483	34	17,268	56	41,505

(D) = data have been withheld to avoid disclosing operations of individual companies; (z) = indicates data less than half the unit shown; (-) = indicates data not collected; (-) = indicates a value of zero or a value rounded to zero; (na) = not applicable.

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

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