

TABLE 28. Full-time equivalent R&D scientists and engineers in companies performing industrial R&D in the United States, by industry and company size, by source of R&D funds: January 2007

(Thousands)

Industry and company size	NAICS codes	All R&D	Federal	Company and other
All industries	21–23, 31–33, 42, 44–81	1,135.5	75.2 i	1,060.4
Manufacturing industries	31–33	696.1	40.6 i	655.5
Food	311	11.6	* i	11.5
Beverage and tobacco products	312	4.6 i	0.0	4.6 i
Textiles, apparel, and leather	313–16	5.7	* i	5.6
Wood products	321	1.7 i	* i	1.6
Paper, printing, and support activities	322, 323	9.7 i	* i	9.6 i
Petroleum and coal products	324	D	D	4.9 i
Chemicals	325	128.3	0.8 i	127.5 i
Basic chemicals	3251	9.6	*	9.1
Resin, synthetic rubber, fibers, and filament	3252	8.5	* i	8.4 i
Pharmaceuticals and medicines	3254	90.5	* i	90.3 i
Other chemicals	other 325	19.8	* i	19.7
Plastics and rubber products	326	13.5	* i	13.4
Nonmetallic mineral products	327	6.9 i	* i	6.5
Primary metals	331	3.4	* i	3.3
Fabricated metal products	332	22.1	0.5	21.6
Machinery	333	65.0	0.8 i	64.2
Computer and electronic products	334	241.0	24.5 i	216.5
Computers and peripheral equipment	3341	32.6	* i	32.4
Communications equipment	3342	49.8	1.5 i	48.3
Semiconductor and other electronic components	3344	77.7	1.4	76.3
Navigational, measuring, electromedical, and control instruments	3345	75.6 i	21.4 i	54.2
Other computer and electronic products	other 334	5.3 i	* i	5.3 i
Electrical equipment, appliances, and components	335	15.9	* i	15.6
Transportation equipment	336	134.7	12.3	122.3
Motor vehicles, trailers, and parts	3361–63	D	D	89.1 i
Aerospace products and parts	3364	37.5	9.5	28.0
Other transportation equipment	other 336	D	D	5.3
Furniture and related products	337	D	D	3.1
Miscellaneous manufacturing	339	24.1	*	23.7
Medical equipment and supplies	3391	17.1	*	16.7
Other miscellaneous manufacturing	other 339	7.0	* i	6.9
Nonmanufacturing industries	21–23, 42, 44–81	439.4	34.6 i	404.8
Mining, extraction, and support activities	21	D	D	3.8
Utilities	22	1.7	*	1.6
Construction	23	14.3	*	14.1 i
Wholesale trade	42	18.4	* i	18.3
Retail trade	44, 45	D	D	6.5
Transportation and warehousing	48, 49	D	D	1.1 i
Information	51	144.5	1.3	143.2
Publishing	511	105.3	*	104.9
Newspaper, periodical, book, and directory	5111	D	D	5.9
Software	5112	D	D	99.0
Telecommunications	517	D	D	9.9 i
Wired and wireless (except satellite) telecommunications carriers	5171, 5172	D	D	7.1
Satellite telecommunications	5174	*	0.0	*
Other telecommunications	other 517	2.8 i	0.0	2.8 i
Internet service providers, Web search portals, and data-processing services	518	22.7	0.9	21.8
Internet service providers and Web search portals	5181	5.3	0.0	5.3
Data-processing, hosting, and related services	5182	17.5	0.9	16.6

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Other information	other 51	D	D	6.5
Finance, insurance, and real estate	52, 53	23.4	0.0	23.4
Professional, scientific, and technical services	54	208.9	31.2 i	177.7
Architectural, engineering, and related services	5413	52.2	12.7 i	39.5
Computer systems design and related services	5415	95.8	5.0	90.9
Scientific R&D services	5417	45.9	12.6 i	33.3
Other professional, scientific, and technical services	other 54	14.9	0.9	14.0
Health care services	621-23	7.4	0.8 i	6.6
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	9.6	0.8 i	8.7
Company size (employees)				
All companies	-	1,135.5	75.2 i	1,060.4
5-24	-	67.6	6.2 i	61.4
25-49	-	44.4	3.6	40.9
50-99	-	61.8	3.6 i	58.2
100-249	-	78.8	6.9 i	71.9
250-499	-	47.9	2.6 i	45.4
500-999	-	64.3	3.9	60.4
1,000-4,999	-	178.1	5.3	172.9
5,000-9,999	-	101.6	4.6	96.9
10,000-24,999	-	177.1	7.2 i	169.9
25,000 or more	-	313.8	31.3 i	282.5

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

^a Estimates for management of companies and enterprises (NAICS 55), formerly shown separately, now are included in other nonmanufacturing.

NOTES: The method used to assign industry classifications has changed; industry-specific estimates are not directly comparable with those for years prior to 2004. Excludes federally funded research and development centers. Data for number of full-time equivalent scientists and engineers by funding source are collected only on Form RD-1, the questionnaire sent to larger R&D-performing companies. Consequently, data for smaller R&D-performing companies are not distributed by source of R&D funds. Data recorded in January represent employment for the previous year. 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: 2006.