

TABLE 41. R&D performance by matched U.S. parent companies, by industry and character of work: SIRD 2005  
(Millions of U.S. dollars)

Industry	NAICS codes	All R&D performance	Character of work		
			Basic research	Applied research	Development
All industries	21-23, 31-33, 42, 44-81	164,487	5,814	30,665	128,008
Manufacturing	31-33	131,604	5,170	26,108	100,326
Food	311	2,151	91	379	1,681
Beverage and tobacco products	312	114	D	D	D
Paper, printing, and support activities	322, 323	3,397	77	967	2,352
Petroleum and coal products	324	1,525	D	D	D
Chemicals	325	34,646	2,527	8,363	23,756
Basic chemicals	3251	1,547	134	494	918
Resin, synthetic rubber, fibers, and filament	3252	2,101	186	1,058	857
Pharmaceuticals and medicines	3254	28,222	2,153	5,924	20,145
Other chemicals	other 325	2,777	54	887	1,837
Plastics and rubber products	326	1,096	82	126	887
Nonmetallic mineral products	327	730	74	244	411
Primary metals	331	385	D	D	315
Fabricated metal products	332	695	9	103	584
Machinery	333	6,712	46	1,244	5,423
Computer and electronic products	334	42,426	1,223	8,207	32,996
Computers and peripheral equipment	3341	5,801	D	D	5,396
Communications equipment	3342	7,579	D	D	5,851
Semiconductor and other electronic components	3344	14,355	548	4,445	9,362
Navigational, measuring, electromedical, and control instruments	3345	13,947	410	1,817	11,720
Other computer and electronic products	other 334	744	0	76	667
Electrical equipment, appliances, and components	335	1,287	38	192	1,058
Transportation equipment	336	32,377	736	4,623	27,019
Motor vehicles, trailers, and parts	3361-63	14,201	D	D	12,033
Aerospace products and parts	3364	13,484	459	2,529	10,496
Other transportation equipment	other 336	4,692	D	D	4,490
Miscellaneous manufacturing	339	3,277	163	580	2,534
Medical equipment and supplies	3391	2,895	159	556	2,180
Other miscellaneous manufacturing	other 339	382	4	24	355
Other manufacturing	313-16, 321, 337	785	23	84	679
Nonmanufacturing	21-23, 42, 44-81	32,883	645	4,557	27,681
Mining, extraction, and support activities	21	D	D	50	D
Wholesale trade	42	578	D	D	441
Information	51	18,072	D	D	15,719
Publishing	511	13,829	D	D	12,250
Newspaper, periodical, book, and database	5111	419	0	D	D
Software	5112	13,410	D	D	D
Telecommunications	517	D	D	D	D
Wired and wireless (except satellite)					
telecommunications carriers	5171, 5172	D	D	D	D
Satellite telecommunications	5174	0	0	0	0
Other telecommunications	other 517	D	D	0	D
Internet service providers, web search portals, and data processing services	518	2,042	0	D	D
Internet service providers and web search portals	5181	808	0	D	D
Data processing, hosting, and related services	5182	1,234	0	D	D
Other information	other 51	D	D	D	D
Finance, insurance, and real estate	52, 53	639	D	D	567
Professional, scientific, and technical services	54	10,113	304	1,247	8,563
Architectural, engineering, and related services	5413	2,088	D	D	1,593
Computer systems design and related services	5415	6,357	D	D	5,882

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Scientific R&D services	5417	1,563	122	451	989
Other professional, scientific, and technical services	other 54	105	0	7	98
Health care services	621-23	D	D	D	D
Other nonmanufacturing	22, 23, 44, 45, 48, 49, 55, 56, 61, 624, 71, 72, 81	3,157	D	D	2,143

D = suppressed to avoid disclosure of confidential information.

BEA = Bureau of Economic Analysis; NAICS = North American Industry Classification System; SIRD = Survey of Industrial Research and Development; USDIA = U.S. Direct Investment Abroad.

NOTES: Data from SIRD (cosponsored by National Science Foundation and U.S. Census Bureau) matched to data from USDIA survey (conducted by BEA). SIRD data presented are aggregations of unweighted microdata.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, U.S. Bureau of Economic Analysis, and U.S. Census Bureau. R&D Data Link Project, 2004-07.