

TABLE 91. R&D performance by matched U.S. parent companies, by industry and character of work: SIRD 2007
(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 | 192,410 | 8,649 | 37,422 | 146,339 |
| Manufacturing | 31-33 | 147,054 | 8,007 | 30,122 | 108,925 |
| Food | 311 | 2,241 | 135 | 447 | 1,660 |
| Beverage and tobacco products | 312 | 130 | 1 | 75 | 54 |
| Paper, printing, and support activities | 322, 323 | 3,610 | 67 | 562 | 2,981 |
| Petroleum and coal products | 324 | 1,622 | 167 | 1,267 | 188 |
| Chemicals | 325 | 38,998 | 3,382 | 8,750 | 26,865 |
| Basic chemicals | 3251 | 2,624 | 228 | 1,195 | 1,201 |
| Resin, synthetic rubber, fibers, and filament | 3252 | 849 | 86 | 385 | 378 |
| Pharmaceuticals and medicines | 3254 | 32,763 | 2,979 | 6,229 | 23,555 |
| Other chemicals | other 325 | 2,762 | 89 | 942 | 1,731 |
| Plastics and rubber products | 326 | 1,250 | 76 | 165 | 1,009 |
| Nonmetallic mineral products | 327 | 878 | 80 | 254 | 544 |
| Primary metals | 331 | 575 | 41 | 162 | 372 |
| Fabricated metal products | 332 | 620 | 8 | 114 | 498 |
| Machinery | 333 | 7,923 | 35 | 1,148 | 6,740 |
| Computer and electronic products | 334 | 48,903 | 2,607 | 11,028 | 35,268 |
| Computers and peripheral equipment | 3341 | 5,101 | 53 | 455 | 4,593 |
| Communications equipment | 3342 | 8,811 | D | D | 6,411 |
| Semiconductor and other electronic components | 3344 | 15,747 | 391 | 4,332 | 11,024 |
| Navigational, measuring, electromedical, and control instruments | 3345 | 18,600 | 1,927 | 4,008 | 12,665 |
| Other computer and electronic products | other 334 | 645 | D | D | 575 |
| Electrical equipment, appliances, and components | 335 | 1,377 | 31 | 230 | 1,116 |
| Transportation equipment | 336 | 34,334 | 1,226 | 5,155 | 27,953 |
| Motor vehicles, trailers, and parts | 3361-63 | 13,259 | D | D | 11,414 |
| Aerospace products and parts | 3364 | 16,399 | 472 | 3,263 | 12,663 |
| Other transportation equipment | other 336 | 4,677 | D | D | 3,876 |
| Miscellaneous manufacturing | 339 | 3,615 | 134 | 610 | 2,871 |
| Medical equipment and supplies | 3391 | 3,008 | 130 | 557 | 2,321 |
| Other miscellaneous manufacturing | other 339 | 607 | 4 | 52 | 550 |
| Other manufacturing | 313-16, 321, 337 | 976 | 16 | 155 | 804 |
| Nonmanufacturing | 21-23, 42, 44-81 | 45,356 | 641 | 7,301 | 37,414 |
| Mining, extraction, and support activities | 21 | 914 | 31 | 279 | 605 |
| Wholesale trade | 42 | 435 | 24 | 94 | 317 |
| Information | 51 | 23,527 | D | D | 21,075 |
| Publishing | 511 | 17,260 | 39 | 1,973 | 15,248 |
| Newspaper, periodical, book, and database | 5111 | 652 | * | 1 | 651 |
| Software | 5112 | 16,608 | 39 | 1,972 | 14,597 |
| Telecommunications | 517 | D | D | D | D |
| Wired and wireless (except satellite) telecommunications carriers | 5171, 5172 | 2,070 | D | D | D |
| Satellite telecommunications | 5174 | 0 | 0 | 0 | 0 |
| Other telecommunications | other 517 | D | D | D | D |
| Internet service providers, web search portals, and data processing services | 518 | 3,438 | 0 | D | D |
| Internet service providers and web search portals | 5181 | D | 0 | 5 | D |
| Data processing, hosting, and related services | 5182 | D | 0 | D | D |
| Other information | other 51 | D | 0 | 0 | D |
| Finance, insurance, and real estate | 52, 53 | 943 | 31 | 56 | 857 |
| Professional, scientific, and technical services | 54 | 17,145 | 412 | 4,457 | 12,275 |
| Architectural, engineering, and related services | 5413 | 2,447 | D | D | 2,155 |
| Computer systems design and related services | 5415 | 9,541 | D | D | 8,462 |

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|--|--|------------------------|-------------------|---------------------|-------------|
| | | | Basic research | Applied research | Development |
| Scientific R&D services | 5417 | 4,955 | 26 | 3,417 | 1,513 |
| Other professional, scientific, and technical services | other 54 | 202 | 2 | 53 | 146 |
| Health care services | 621-23 | 8 | 1 | 3 | 4 |
| Other nonmanufacturing | 22, 23, 44, 45, 48, 49, 55, 56, 61, 624, 71, 72, 81 | 2,385 | D | D | 2,282 |

* = amount < \$500,000; 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.