

TABLE 9

Domestic R&D performed by the company, by selected industry and type of R&D, for companies with 1–9 employees: 2021

(Thousands of U.S. dollars)

| Industry | NAICS code | Total | Basic research | Applied research | Development |
|--|---------------------------------|-----------|----------------|------------------|-------------|
| All selected industries | 31–33, 42, 51, 5413, 5415, 5417 | 6,124,669 | 715,225 | 2,221,924 | 3,187,520 |
| Manufacturing industries | 31–33 | 747,124 | 59,635 | 275,850 | 411,640 |
| Food, beverage, and tobacco products | 311–12 | 18,270 r | 704 | 3,942 | 13,624 r |
| Textile, apparel, and leather products | 313–16 | 7,096 r | 1,425 r | 1,980 r | 3,691 r |
| Wood products | 321 | 134 | 14 | 21 | 99 |
| Paper | 322 | 0 | 0 | 0 | 0 |
| Printing and related support activities | 323 | 0 | 0 | 0 | 0 |
| Petroleum and coal products | 324 | 739 | 0 | 148 | 592 |
| Chemicals | 325 | 132,255 | 14,608 | 52,897 | 64,750 |
| Pharmaceuticals and medicines | 3254 | 96,666 | 11,004 | 38,762 | 46,899 |
| Chemicals, excluding pharmaceuticals | other 325 | 35,589 | 3,604 | 14,135 | 17,850 |
| Plastics and rubber products | 326 | 6,427 | 204 | 3,787 | 2,436 r |
| Nonmetallic mineral products | 327 | 3,638 r | 2,236 r | 811 r | 590 |
| Primary metals | 331 | 2,117 | 295 | 806 r | 1,016 r |
| Fabricated metal products | 332 | 11,983 r | 3,864 r | 3,509 r | 4,609 r |
| Machinery | 333 | 64,109 | 4,914 | 18,164 | 41,031 |
| Computer and electronic products | 334 | 279,203 | 21,513 | 87,924 | 169,765 |
| Semiconductor and other electronic components | 3344 | 71,280 | 8,498 | 29,458 | 33,324 |
| Navigational, measuring, electromedical, and control instruments | 3345 | 164,799 | 10,675 | 46,797 | 107,327 |
| Other computer and electronic products | other 334 | 43,124 | 2,340 | 11,670 | 29,114 |
| Electrical equipment, appliances, and components | 335 | 40,032 | 1,809 r | 16,157 | 22,065 |
| Transportation equipment | 336 | 33,911 | 1,208 r | 6,696 | 26,007 |
| Aerospace products and parts | 3364 | 13,003 | 266 | 4,607 | 8,130 |
| Other transportation equipment | other 336 | 20,908 | 942 r | 2,090 r | 17,876 |
| Furniture and related products | 337 | 1,471 r | 0 | 559 | 912 r |
| Miscellaneous manufacturing | 339 | 145,741 | 6,841 | 78,446 r | 60,454 |
| Selected nonmanufacturing industries | 42, 51, 5413, 5415, 5417 | 5,377,544 | 655,590 | 1,946,074 | 2,775,881 |
| Wholesale trade | 42 | 143,063 | 20,107 r | 49,941 | 73,015 |
| Information | 51 | 756,657 | 80,314 | 217,708 | 458,635 |
| Software publishers | 5112 | 535,950 | 62,233 | 164,325 | 309,391 |
| Information, excluding software publishers | 51 less 5112 | 220,707 | 18,080 | 53,383 | 149,244 |
| Architectural, engineering, and related services | 5413 | 606,186 | 75,293 | 155,913 | 374,980 |
| Computer systems design and related services | 5415 | 1,616,190 | 170,785 | 595,870 | 849,535 |
| Scientific research and development services | 5417 | 2,255,449 | 309,092 | 926,641 | 1,019,716 |
| Research and development in nanotechnology | 541713 | 172,582 | 27,987 | 73,792 | 70,804 |
| Research and development in biotechnology (except nanobiotechnology) | 541714 | 868,580 | 146,062 | 308,060 | 414,458 |
| Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology) | 541715 | 1,193,678 | 133,318 | 538,713 | 521,647 |
| Social sciences and humanities research and development | 541720 | 12,047 | 1,725 | 6,076 | 4,246 |

r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding or unavailable NAICS detail for select records beyond the 4-digit industry classification. Industry classification is based on dominant establishment payroll. Statistics are representative of companies located in the United States that performed or funded R&D.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, 2022 Annual Business Survey: Data Year 2021.