

TABLE 10-1

**Domestic R&D performed by the company, by selected industry and type of R&D, for companies with 1–9 employees: 2018**

(Thousands of U.S. dollars)

| Industry   | NAICS code                      | Total     | Basic research | Applied research | Development |
|--|---------------------------------|-----------|----------------|------------------|-------------|
| All selected industries  | 31–33, 42, 51, 5413, 5415, 5417 | 4,526,838 | 224,480        | 1,365,493        | 2,936,865   |
| Manufacturing industries   | 31–33                           | 555,676   | 49,533         | 180,583          | 325,559     |
| Food, beverage, and tobacco products   | 311–12                          | D         | 0              | D                | 0           |
| Textile, apparel, and leather products   | 313–16                          | 859 r     | 0              | 859 r            | 0           |
| Wood products  | 321                             | 0         | 0              | 0                | 0           |
| Paper  | 322                             | 0         | 0              | 0                | 0           |
| Printing and related support activities  | 323                             | D         | 0              | D                | D           |
| Petroleum and coal products  | 324                             | D         | D              | D                | D           |
| Chemicals  | 325                             | 86,272    | 4,385          | 33,276           | 48,611      |
| Pharmaceuticals and medicines  | 3254                            | 54,581    | 2,801          | 26,337           | 25,443      |
| Chemicals, excluding pharmaceuticals   | other 325                       | 31,691    | 1,583          | 6,939            | 23,169 r    |
| Plastics and rubber products   | 326                             | 0         | 0              | 0                | 0           |
| Nonmetallic mineral products   | 327                             | 5,159 r   | 162 r          | 1,084 r          | 3,913 r     |
| Primary metals   | 331                             | 0         | 0              | 0                | 0           |
| Fabricated metal products  | 332                             | 2,465 r   | D              | D                | 918         |
| Machinery  | 333                             | 42,431    | 6,448 r        | 20,151           | 15,832      |
| Computer and electronic products   | 334                             | 303,711   | 26,553         | 93,347           | 183,811     |
| Semiconductor and other electronic components  | 3344                            | 56,813    | 1,943 r        | 18,177           | 36,692      |
| Navigational, measuring, electromedical, and control instruments   | 3345                            | 200,704   | 21,524 r       | 61,629           | 117,551     |
| Other computer and electronic products   | other 334                       | 46,194    | 3,086          | 13,541           | 29,567      |
| Electrical equipment, appliances, and components   | 335                             | 27,954    | 2,031 r        | 7,613            | 18,310      |
| Transportation equipment   | 336                             | 12,979    | 256 r          | 3,591            | 9,132       |
| Aerospace products and parts   | 3364                            | 10,181    | 256 r          | 1,964            | 7,962       |
| Other transportation equipment   | other 336                       | D         | 0              | D                | D           |
| Furniture and related products   | 337                             | 0         | 0              | 0                | 0           |
| Miscellaneous manufacturing  | 339                             | 69,921    | 9,062          | 17,024 r         | 43,835      |
| Selected nonmanufacturing industries   | 42, 51, 5413, 5415, 5417        | 3,971,162 | 174,947        | 1,184,910        | 2,611,305   |
| Wholesale trade  | 42                              | 183,533   | 6,546          | 31,199 r         | 145,788     |
| Information  | 51                              | 518,090   | 25,486         | 105,320          | 387,284     |
| Software publishers  | 5112                            | 368,288   | 16,822         | 77,207           | 274,260     |
| Information, excluding software publishers   | 51, excluding 5112              | 149,801   | 8,664          | 28,113           | 113,025     |
| Architectural, engineering, and related services   | 5413                            | 411,987   | 15,960         | 119,239          | 276,788     |
| Computer systems design and related services   | 5415                            | 1,037,581 | 57,312         | 237,917          | 742,352     |
| Scientific research and development services   | 5417                            | 1,819,972 | 69,643         | 691,236          | 1,059,093   |
| Research and development in nanotechnology   | 541713                          | 292,766   | 9,149          | 111,002          | 172,615     |
| Research and development in biotechnology (except nanobiotechnology)   | 541714                          | 656,579   | 22,146         | 227,757          | 406,676     |
| Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology) | 541715                          | 841,697   | 36,854         | 337,943          | 466,900     |
| Social sciences and humanities research and development  | 541720                          | 12,008    | D              | 6,631            | 4,149       |

D = withheld to avoid disclosing data for individual companies; data are included in higher-level totals. r = relative standard error &gt; 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&amp;D.

**Source(s):**

National Center for Science and Engineering Statistics and Census Bureau, 2019 Annual Business Survey: Data Year 2018.