

TABLE 112. Domestic R&D paid for by the U.S. federal government and performed by the company, by character of work, industry, and company size: 2010  
(Millions of U.S. dollars)

| Industry and company size   | NAICS code                  | Total    | Basic research | Applied research | Development |
|---|-----------------------------|----------|----------------|------------------|-------------|
| All industries  | 21-23, 31-33, 42-81         | 34,199 i | 1,406          | 4,705            | 28,089 i    |
| Manufacturing industries  | 31-33                       | 26,739 i | 460            | 2,678 i          | 23,601 i    |
| Food  | 311                         | 15       | 0              | 10               | 5           |
| Beverage and tobacco products                                       | 312                         | * i      | 0              | * i              | * i         |
| Textiles, apparel, and leather products                             | 313-316                     | 5        | *              | *                | 5           |
| Wood products   | 321                         | 0        | 0              | 0                | 0           |
| Printing and related support activities                             | 323                         | 1        | 0              | *                | *           |
| Chemicals   | 325                         | 180      | 16             | 40               | 125         |
| Pharmaceuticals and medicines                                       | 3254                        | 99       | 9              | 21               | 69          |
| Other chemicals   | other 325                   | 81       | 7              | 19               | 56          |
| Plastics and rubber products  | 326                         | 8        | 3              | *                | 4           |
| Nonmetallic mineral products  | 327                         | 23       | 15             | 3                | 5           |
| Primary metals  | 331                         | 29       | 1 i            | 2                | 26          |
| Fabricated metal products   | 332                         | 90       | 0              | * i              | 90          |
| Machinery   | 333                         | 98       | 32 i           | 32               | 33          |
| Computer and electronic products                                    | 334                         | 5,935    | 272            | 1,337            | 4,326 i     |
| Semiconductor and other electronic components                       | 3344                        | 177      | 5              | 73               | 100         |
| Navigational, measuring, electromedical, and control instruments    | 3345                        | 4,906    | 266            | 1,255            | 3,385 i     |
| Other computer and electronic products                              | other 334                   | 852      | 1              | 9                | 841 i       |
| Electrical equipment, appliances, and components                    | 335                         | 84       | 1              | 30               | 53          |
| Transportation equipment  | 336                         | 20,191 i | 115 i          | 1,209 i          | 18,867 i    |
| Aerospace products and parts  | 3364                        | 18,921   | 85 i           | 1,107 i          | 17,729 i    |
| Other transportation equipment                                      | other 336                   | 1,269 i  | 30 i           | 101 i            | 1,138 i     |
| Furniture and related products                                      | 337                         | 0        | 0              | 0                | 0           |
| Miscellaneous manufacturing   | 322, 324, 339               | 80       | 5              | 14               | 60          |
| Nonmanufacturing industries   | 21-23, 42-81                | 7,460    | 946            | 2,027            | 4,488       |
| Information   | 51                          | 152      | D              | D                | 79          |
| Publishing  | 511                         | 140      | D              | D                | 72          |
| Telecommunications  | 517                         | 5        | 0              | *                | 5           |
| Data processing, hosting, and related services                      | 518                         | 3        | *              | *                | 2           |
| Other information   | other 51                    | 4        | 4              | 0                | 0           |
| Professional, scientific, and technical services                    | 54                          | 6,829    | 921            | 1,946            | 3,962 i     |
| Architectural, engineering, and related services                    | 5413                        | 1,534 i  | 48             | 162              | 1,324 i     |
| Computer systems design and related services                        | 5415                        | 712      | 49             | 277              | 386         |
| Scientific R&D services   | 5417                        | 3,279    | 714            | 1,250            | 1,315       |
| Biotechnology R&D   | 541711                      | 465      | 82             | 164              | 220         |
| Physical, engineering, and life sciences (except biotechnology) R&D | 541712                      | 2,352    | D              | D                | 1,075       |
| Social sciences and humanities R&D                                  | 541720                      | 463      | D              | D                | 20          |
| Other professional, scientific, and technical services              | other 54                    | 1,303    | 109 i          | 256              | 937 i       |
| Other nonmanufacturing  | 21-23, 42-49, 52, 53, 55-81 | 480      | D              | D                | 447         |
| All companies (number of employees)                                 | -                           | 34,199 i | 1,406          | 4,705            | 28,089 i    |
| Small companies (number of employees) <sup>a</sup>                  |                             |          |                |                  |             |
| 5-499   | -                           | 4,951    | 446            | 1,696            | 2,810       |
| 5-99  | -                           | 3,369    | 262            | 1,269            | 1,837       |
| 5-49  | -                           | 2,200    | 224            | 834              | 1,142       |
| 5-9   | -                           | 577      | 89             | 226              | 262         |
| 10-24   | -                           | 779      | 71             | 298              | 410         |
| 25-49   | -                           | 844      | 63             | 310              | 470         |
| 50-99   | -                           | 1,169    | 39             | 435              | 695         |
| 100-249   | -                           | 962      | 100            | 245              | 618         |
| 250-499   | -                           | 620      | 84             | 182              | 354         |
| Medium and large companies (number of employees)                    |                             |          |                |                  |             |
| 500-999   | -                           | 585      | 58             | 178              | 349         |

TABLE 112. Domestic R&D paid for by the U.S. federal government and performed by the company, by character of work, industry, and company size: 2010  
(Millions of U.S. dollars)

| Industry and company size | NAICS code | Total    | Basic research | Applied research | Development |
|---------------------------|------------|----------|----------------|------------------|-------------|
| 1,000–4,999               | –          | 1,674    | 450            | 298              | 927         |
| 5,000–9,999               | –          | 637      | 1 i            | 121 i            | 515 i       |
| 10,000–24,999             | –          | 2,789    | 39 i           | 55               | 2,695       |
| 25,000 or more            | –          | 23,563 i | 412            | 2,358 i          | 20,794 i    |

\* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = value > 50% of estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2007 North American Industry Classification System.

<sup>a</sup> Upper bound based on U.S. Small Business Administration's definition of small business; Business R&D and Innovation Survey (BRDIS) does not include companies with fewer than five domestic employees.

NOTES: Detail may not add to total because of rounding. Industry classification based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, classification used for sampling was assigned. Statistics are representative of companies located in United States that performed or funded R&D.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey, 2010.