

TABLE 13

**Domestic R&D paid for by the company and others and performed by the company, by source of funds and state: 2022**

(Millions of U.S. dollars)

| State                | Total   | Paid for by the company |         | Paid for by others |         |            |
|----------------------|---------|-------------------------|---------|--------------------|---------|------------|
|                      |         |                         |         | Total              | Federal | Nonfederal |
| All states           | 691,547 |                         | 608,058 | 83,489             | 31,626  | 51,863     |
| Alabama              | 4,907   |                         | 2,259   | 2,649              | i 2,548 | i 101      |
| Alaska               | 211     | i                       | 189     | i 22               | 13      | 8          |
| Arizona              | 10,261  |                         | 8,250   | 2,010              | 1,233   | 778        |
| Arkansas             | 604     |                         | 545     | 59                 | 13      | 46         |
| California           | 235,556 |                         | 220,081 | 15,474             | 7,046   | 8,429      |
| Colorado             | 10,496  |                         | 8,135   | 2,362              | i 1,982 | i 379      |
| Connecticut          | 11,443  |                         | 9,037   | 2,406              | 2,193   | 213        |
| Delaware             | 4,544   |                         | 2,874   | 1,670              | 5       | e 1,665    |
| District of Columbia | 1,007   |                         | 881     | 126                | 87      | 39         |
| Florida              | 11,509  |                         | 8,746   | 2,763              | i 1,828 | i 935      |
| Georgia              | 8,666   |                         | 7,684   | 982                | i 107   | 875        |
| Hawaii               | 491     |                         | 447     | 44                 | 35      | 9          |
| Idaho                | 2,932   |                         | 2,883   | 49                 | 6       | 43         |
| Illinois             | 18,061  |                         | 16,785  | 1,276              | i 142   | 1,134      |
| Indiana              | 11,493  |                         | 9,943   | 1,550              | i 132   | 1,418      |
| Iowa                 | 3,956   |                         | 3,257   | 698                | 6       | e 693      |
| Kansas               | 2,996   |                         | 2,219   | 777                | i 14    | e 763      |
| Kentucky             | 1,053   |                         | 925     | 129                | i 15    | 113        |
| Louisiana            | 604     |                         | 530     | 75                 | 39      | 36         |
| Maine                | 656     |                         | 597     | 59                 | 45      | 15         |
| Maryland             | 8,591   |                         | 5,843   | 2,748              | 1,938   | 809        |
| Massachusetts        | 49,732  |                         | 43,311  | 6,421              | 2,160   | 4,261      |
| Michigan             | 25,790  |                         | 23,381  | 2,409              | 150     | 2,258      |
| Minnesota            | 8,537   |                         | 8,141   | 396                | 142     | 254        |
| Mississippi          | 532     |                         | 442     | 91                 | 45      | 46         |
| Missouri             | 5,478   |                         | 4,914   | 564                | i 299   | i 265      |
| Montana              | 404     |                         | 376     | 28                 | 12      | 15         |
| Nebraska             | 1,459   |                         | 1,395   | 64                 | 14      | 50         |
| Nevada               | 1,811   |                         | 1,471   | 340                | 24      | 316        |
| New Hampshire        | 3,293   |                         | 1,449   | 1,844              | 1,441   | 403        |
| New Jersey           | 26,511  |                         | 20,144  | 6,366              | i 674   | i 5,692    |
| New Mexico           | 1,844   |                         | 1,514   | 330                | 294     | 36         |
| New York             | 32,196  |                         | 29,915  | 2,282              | 517     | 1,765      |
| North Carolina       | 16,541  |                         | 11,503  | 5,038              | i 172   | 4,866      |
| North Dakota         | 472     |                         | 454     | 18                 | 2       | e 16       |
| Ohio                 | 13,759  |                         | 10,501  | 3,257              | 793     | 2,465      |
| Oklahoma             | 1,893   |                         | 1,820   | 73                 | 38      | 35         |
| Oregon               | 12,678  |                         | 12,426  | 252                | 66      | 187        |
| Pennsylvania         | 20,624  |                         | 17,151  | 3,473              | i 433   | 3,040      |
| Rhode Island         | 635     |                         | 594     | 40                 | 19      | 21         |
| South Carolina       | 2,616   |                         | 2,319   | 297                | 117     | 180        |
| South Dakota         | 213     |                         | 201     | 12                 | 2       | e 10       |
| Tennessee            | 3,473   |                         | 2,147   | 1,326              | i 74    | 1,252      |
| Texas                | 31,365  |                         | 26,151  | 5,214              | i 2,499 | i 2,715    |
| Utah                 | 4,019   |                         | 3,748   | 271                | 59      | 212        |
| Vermont              | 676     |                         | 614     | 62                 | 44      | 18         |
| Virginia             | 8,766   |                         | 6,451   | 2,315              | 1,668   | 647        |
| Washington           | 57,295  |                         | 55,718  | 1,576              | 353     | i 1,224    |
| West Virginia        | 467     |                         | 444     | 23                 | 14      | 10         |

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|----------------------------|-------|-------------------------|--------------------|---|---------|---|------------|---|
|                            |       |                         | Total              |   | Federal |   | Nonfederal |   |
| Wisconsin                  | 7,585 | 6,470                   | 1,114              | i | 64      |   | 1,050      | i |
| Wyoming                    | 81    | 78                      | 3                  | i | 2       | i | 1          | e |
| Undistributed <sup>a</sup> | 765   | 703                     | 62                 |   | 9       |   | 53         |   |

e = more than 50% of value is modeled—see "Technical Notes"; i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

<sup>a</sup> Includes data reported that were not allocated to a specific state by multi-establishment companies. For single-establishment companies, data reported were allocated to the state in the address used to mail the survey form.

**Note(s):**

Detail may not add to total because of rounding. For a given estimate in this table, if the conditions are satisfied for both the "i" and "e" flags, the e flag is assigned because the imputation rate may be found in the corresponding table of imputation rates (available from the Survey Manager upon request). Statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D and are not comparable with estimates published for years prior to 2018.

**Source(s):**

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2022.