

**Table 2****U.S. business R&D performance, by source of funds and selected industry: 2021**

(Millions of dollars)

| Industry and NAICS code                             | All R&D <sup>a</sup> | Paid for by the company | Paid for by others |         |           |         |            |       |   |
|---|----------------------|-------------------------|--------------------|---------|-----------|---------|------------|-------|---|
|   |                      |                         | Total              | Federal | Companies |         | All others |       |   |
|   |                      |                         |                    |         | Domestic  | Foreign |            |       |   |
| All industries, 21–33, 42–81                        | 602,499              | 527,804                 | 74,695             | 23,582  | 26,587    | i       | 23,256     | 1,270 |   |
| Manufacturing industries, 31–33                     | 326,060              | 287,666                 | 38,394             | 16,374  | 6,601     |         | 14,855     | 564   |   |
| Machinery, 333                                      | 17,730               | 16,726                  | 1,003              | 503     | 211       |         | 278        | 11    |   |
| Semiconductor machinery, 333242                     | 5,349                | 5,182                   | 167                | 14      | 8         |         | 146        | 0     |   |
| Computer and electronic products, 334               | 101,063              | 94,211                  | 6,852              | 2,828   | 1,650     |         | 2,290      | 84    |   |
| Semiconductor and other electronic components, 3344 | 47,396               | 45,516                  | 1,880              | 81      | 75        |         | 1,714      | 10    |   |
| Nonmanufacturing industries, 21–23, 42–81           | 276,439              | 240,138                 | 36,300             | i       | 7,207     | 19,986  | i          | 8,400 | i |

i = more than 50% of the estimate or its components are a combination of imputation and reweighting to account for nonresponse.

NAICS = 2017 North American Industry Classification System.

<sup>a</sup> All R&D is the cost of R&D paid for and performed by the respondent company and paid for by others outside of the company and performed by the respondent company.

**Note(s):**

Data are for companies with 10 or more domestic employees. Detail may not add to total because of rounding. Industry classification was based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Excludes data for federally funded research and development centers.

**Source(s):**

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2021.