

TABLE 121

## Federal obligations for R&amp;D plant, by performer: FYs 1967–2021

(Dollars in millions)

| Fiscal year | Total   | Intramural <sup>a</sup> | Extramural                         |                              |                           |                                |                  |                               |                          | Foreign |
|-------------|---------|-------------------------|------------------------------------|------------------------------|---------------------------|--------------------------------|------------------|-------------------------------|--------------------------|---------|
|             |         |                         | United States and U.S. territories |                              |                           |                                |                  |                               |                          |         |
|             |         |                         | Industry                           | Industry-administered FFRDCs | Universities and colleges | University-administered FFRDCs | Other nonprofits | Nonprofit-administered FFRDCs | State, local governments |         |
| 1967        | 620.1   | 239.0                   | NA                                 | NA                           | 111.7                     | 138.8                          | NA               | NA                            | 130.5                    | 0.1     |
| 1968        | 603.8   | 294.2                   | 40.9                               | 40.8                         | 98.1                      | 101.7                          | 11.1             | 9.8                           | 7.3                      | 0.0     |
| 1969        | 669.0   | 260.4                   | 53.8                               | 87.9                         | 61.9                      | 176.6                          | 4.6              | 21.2                          | 1.6                      | 0.9     |
| 1970        | 524.4   | 166.0                   | 41.4                               | 60.9                         | 56.1                      | 169.0                          | 4.7              | 24.1                          | 2.1                      | 0.1     |
| 1971        | 611.2   | 202.8                   | 54.0                               | 110.6                        | 49.2                      | 178.7                          | 2.5              | 3.3                           | 1.2                      | 8.9     |
| 1972        | 602.1   | 246.6                   | 67.1                               | 75.3                         | 45.3                      | 130.4                          | 28.1             | 1.8                           | 4.7                      | 2.7     |
| 1973        | 774.3   | 323.8                   | 76.8                               | 145.0                        | 42.6                      | 162.3                          | 15.8             | 3.1                           | 3.0                      | 1.9     |
| 1974        | 766.3   | 308.7                   | 64.3                               | 229.8                        | 25.0                      | 118.4                          | 6.2              | 2.1                           | 11.9                     | *       |
| 1975        | 820.7   | 346.8                   | 62.3                               | 229.7                        | 35.9                      | 131.8                          | 10.5             | 3.6                           | 0.2                      | *       |
| 1976        | 836.7   | 316.8                   | 73.7                               | 205.9                        | 35.2                      | 189.6                          | 10.9             | 4.7                           | 0.0                      | 0.0     |
| 1977        | 1,367.2 | 711.9                   | 103.4                              | 215.8                        | 33.7                      | 277.8                          | 6.7              | 6.1                           | 0.6                      | 11.2    |
| 1978        | 1,295.7 | 518.0                   | 76.9                               | 257.0                        | 54.6                      | 376.3                          | 4.4              | 8.3                           | 0.0                      | 0.1     |
| 1979        | 1,475.5 | 544.8                   | 214.4                              | 224.4                        | 42.0                      | 414.1                          | 9.2              | 17.7                          | 0.3                      | 8.4     |
| 1980        | 1,555.7 | 491.1                   | 304.0                              | 256.0                        | 40.3                      | 426.3                          | 8.6              | 24.6                          | 0.8                      | 3.9     |
| 1981        | 1,485.7 | 468.0                   | 302.1                              | 246.5                        | 37.0                      | 370.9                          | 41.3             | 15.1                          | 0.0                      | 4.8     |
| 1982        | 1,389.8 | 426.0                   | 110.4                              | 362.2                        | 30.3                      | 441.7                          | 6.6              | 9.4                           | 0.0                      | 3.2     |
| 1983        | 1,297.5 | 393.9                   | 259.3                              | 166.4                        | 33.6                      | 353.0                          | 82.1             | 7.9                           | 0.0                      | 1.2     |
| 1984        | 1,787.3 | 632.8                   | 451.5                              | 196.6                        | 78.5                      | 363.2                          | 55.6             | 4.2                           | 0.0                      | 4.9     |
| 1985        | 1,820.8 | 625.3                   | 298.3                              | 187.8                        | 140.8                     | 454.2                          | 69.9             | 9.1                           | 0.1                      | 35.5    |
| 1986        | 1,538.8 | 317.1                   | 409.2                              | 215.9                        | 133.2                     | 420.9                          | 11.8             | 9.6                           | 0.0                      | 21.0    |
| 1987        | 1,846.0 | 301.6                   | 668.1                              | 212.9                        | 231.1                     | 400.5                          | 20.6             | 5.4                           | 0.0                      | 5.8     |
| 1988        | 2,057.1 | 319.6                   | 719.5                              | 204.3                        | 245.8                     | 535.3                          | 23.7             | 6.2                           | 0.3                      | 2.4     |
| 1989        | 2,165.1 | 329.5                   | 900.4                              | 212.3                        | 204.9                     | 489.9                          | 14.2             | 8.4                           | 1.4                      | 4.2     |
| 1990        | 2,271.7 | 359.0                   | 882.9                              | 231.0                        | 157.3                     | 495.8                          | 113.0            | 31.4                          | 0.5                      | 0.9     |
| 1991        | 2,852.8 | 518.8                   | 1,003.1                            | 278.7                        | 253.3                     | 624.2                          | 145.4            | 19.7                          | 0.6                      | 9.2     |
| 1992        | 2,984.6 | 506.2                   | 1,014.4                            | 202.2                        | 241.5                     | 579.5                          | 393.9            | 46.3                          | 0.5                      | 0.0     |
| 1993        | 3,100.7 | 432.0                   | 1,048.2                            | 124.4                        | 361.4                     | 619.5                          | 415.6            | 65.5                          | 0.5                      | 33.5    |
| 1994        | 2,215.4 | 392.6                   | 746.8                              | 119.4                        | 253.2                     | 608.8                          | 20.9             | 72.9                          | 0.8                      | 0.2     |
| 1995        | 2,256.1 | 479.8                   | 695.3                              | 95.1                         | 327.3                     | 543.8                          | 25.6             | 62.6                          | 0.5                      | 26.1    |
| 1996        | 1,746.1 | 405.1                   | 465.4                              | 43.9                         | 243.1                     | 497.8                          | 23.4             | 66.1                          | 1.0                      | 0.5     |
| 1997        | 1,926.7 | 608.3                   | 389.8                              | 60.5                         | 238.6                     | 560.7                          | 16.7             | 52.0                          | 0.0                      | 0.1     |
| 1998        | 1,813.3 | 448.4                   | 487.7                              | 45.6                         | 139.5                     | 663.6                          | 10.9             | 12.1                          | 5.5                      | 0.0     |
| 1999        | 2,045.7 | 483.3                   | 544.7                              | 172.8                        | 141.2                     | 615.5                          | 12.2             | 70.7                          | 5.3                      | *       |
| 2000        | 4,492.8 | 573.3                   | 2,814.6                            | 27.6                         | 213.5                     | 613.8                          | 55.5             | 193.5                         | 0.9                      | 0.1     |
| 2001        | 4,069.8 | 520.4                   | 2,179.8                            | 41.8                         | 284.7                     | 615.9                          | 27.9             | 357.5                         | 1.4                      | 40.4    |
| 2002        | 4,304.7 | 414.8                   | 2,524.9                            | 109.1                        | 241.1                     | 583.3                          | 29.1             | 388.8                         | 2.0                      | 11.7    |
| 2003        | 4,266.5 | 609.7                   | 1,817.0                            | 145.7                        | 686.9                     | 578.4                          | 70.7             | 333.9                         | 0.8                      | 23.4    |
| 2004        | 3,994.2 | 961.3                   | 1,442.0                            | 188.3                        | 354.3                     | 603.9                          | 164.5            | 252.4                         | 15.8                     | 11.7    |
| 2005        | 3,771.1 | 859.3                   | 1,381.4                            | 125.7                        | 423.0                     | 558.3                          | 134.6            | 218.0                         | 55.2                     | 15.6    |
| 2006        | 2,124.8 | 662.8                   | 265.8                              | 82.7                         | 262.5                     | 519.3                          | 127.3            | 201.6                         | 2.6                      | 0.3     |
| 2007        | 2,168.4 | 593.4                   | 401.4                              | 27.6                         | 265.6                     | 498.4                          | 79.7             | 296.2                         | 0.0                      | 6.1     |
| 2008        | 1,943.9 | 494.0                   | 449.0                              | 175.6                        | 210.2                     | 334.4                          | 23.7             | 253.8                         | *                        | 3.1     |
| 2009        | 3,668.0 | 804.7                   | 396.3                              | 127.7                        | 607.0                     | 706.5                          | 154.4            | 868.2                         | 1.2                      | 2.0     |
| 2010        | 6,613.3 | 1,953.3                 | 1,751.2                            | 167.7                        | 1,532.6                   | 491.4                          | 245.9            | 465.3                         | 2.0                      | 4.0     |
| 2011        | 4,170.7 | 846.5                   | 2,030.0                            | 118.3                        | 286.0                     | 242.9                          | 141.3            | 491.0                         | 0.2                      | 14.6    |
| 2012        | 2,145.7 | 481.2                   | 460.5                              | 51.8                         | 372.5                     | 248.1                          | 200.8            | 323.1                         | *                        | 7.6     |

TABLE 121

**Federal obligations for R&D plant, by performer: FYs 1967–2021**

(Dollars in millions)

| Fiscal year        | Total   | Intramural <sup>a</sup> | Extramural                         |                              |                           |                                |                  |                               |                          | Foreign |
|--------------------|---------|-------------------------|------------------------------------|------------------------------|---------------------------|--------------------------------|------------------|-------------------------------|--------------------------|---------|
|                    |         |                         | United States and U.S. territories |                              |                           |                                |                  |                               | State, local governments |         |
|                    |         |                         | Industry                           | Industry-administered FFRDCs | Universities and colleges | University-administered FFRDCs | Other nonprofits | Nonprofit-administered FFRDCs |                          |         |
| 2013               | 1,905.1 | 673.3                   | 231.5                              | 79.5                         | 236.6                     | 246.2                          | 184.1            | 249.8                         | 0.2                      | 3.9     |
| 2014               | 2,217.6 | 642.5                   | 323.3                              | 91.2                         | 325.8                     | 308.5                          | 212.8            | 309.8                         | 0.3                      | 3.4     |
| 2015               | 2,825.1 | 1,417.2                 | 275.6                              | 101.7                        | 292.2                     | 376.3                          | 151.3            | 210.6                         | *                        | 0.1     |
| 2016               | 2,441.0 | 646.2                   | 344.9                              | 71.3                         | 284.1                     | 591.2                          | 289.8            | 202.4                         | 0.6                      | 10.5    |
| 2017               | 2,651.8 | 829.5                   | 333.8                              | 82.4                         | 350.0                     | 585.7                          | 157.8            | 287.7                         | 0.0                      | 25.0    |
| 2018               | 3,852.7 | 1,252.1                 | 310.9                              | 214.2                        | 410.4                     | 761.5                          | 180.2            | 709.4                         | 0.0                      | 14.1    |
| 2019               | 4,376.4 | 1,092.7                 | 354.0                              | 428.3                        | 514.0                     | 850.0                          | 169.8            | 956.2                         | 1.2                      | 10.3    |
| 2020               | 6,150.1 | 3,106.0                 | 677.5                              | 222.1                        | 350.6                     | 867.8                          | 125.3            | 793.7                         | 6.7                      | 0.4     |
| 2021 (preliminary) | 5,942.9 | 1,088.4                 | 2,720.4                            | 30.5                         | 343.4                     | 809.8                          | 151.4            | 792.6                         | 6.0                      | 0.5     |

\* = amount greater than \$0 but less than \$50,000. NA = not available; data were not collected at that level for that fiscal year.

FFRDC = federally funded research and development center.

<sup>a</sup> Intramural activities cover costs associated with the administration of intramural R&D programs and extramural R&D procurements by federal personnel as well as actual intramural performance.

**Note(s):**

Because of rounding, detail may not add to total. FFRDC funding over the years may be affected by the creation of new FFRDCs and the phasing out of other FFRDCs as well as changes in the type of FFRDC administrator. For details, see the notes in the Master Government List of Federally Funded R&D Centers at <http://www.nsf.gov/statistics/ffrdclist/#ffrdc>. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. FYs 2020 and 2021 obligations include additional funding provided by supplemental COVID-19 related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act).

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.