

TABLE 1

Higher education R&D expenditures, by source of funds: FYs 1953–2021

(Dollars in millions)

| Fiscal year | All R&D expenditures ^a | Source of funds | | | | |
|-------------------|-----------------------------------|--------------------|----------------------------|-------------------|----------|--------------------------------|
| | | Federal government | State and local government | Institution funds | Business | All other sources ^b |
| 1953 ^c | 255 | 138 | 37 | 35 | 19 | 26 |
| 1954 | 290 | 160 | 42 | 38 | 22 | 28 |
| 1955 ^c | 312 | 169 | 47 | 41 | 25 | 30 |
| 1956 ^c | 372 | 213 | 53 | 43 | 29 | 34 |
| 1957 ^c | 410 | 229 | 60 | 49 | 34 | 38 |
| 1958 | 456 | 254 | 68 | 53 | 39 | 42 |
| 1959 ^c | 526 | 306 | 76 | 58 | 39 | 47 |
| 1960 ^c | 646 | 405 | 85 | 64 | 40 | 52 |
| 1961 ^c | 763 | 500 | 95 | 70 | 40 | 58 |
| 1962 ^c | 904 | 613 | 106 | 79 | 40 | 66 |
| 1963 ^c | 1,081 | 760 | 118 | 89 | 41 | 73 |
| 1964 | 1,275 | 917 | 132 | 103 | 40 | 83 |
| 1965 ^c | 1,474 | 1,073 | 143 | 124 | 41 | 93 |
| 1966 | 1,715 | 1,261 | 156 | 148 | 42 | 108 |
| 1967 ^c | 1,921 | 1,409 | 164 | 181 | 48 | 119 |
| 1968 | 2,149 | 1,572 | 172 | 218 | 55 | 132 |
| 1969 ^c | 2,225 | 1,600 | 197 | 223 | 60 | 145 |
| 1970 | 2,335 | 1,647 | 219 | 243 | 61 | 165 |
| 1971 ^c | 2,500 | 1,724 | 255 | 274 | 70 | 177 |
| 1972 | 2,630 | 1,795 | 270 | 305 | 74 | 187 |
| 1973 | 2,884 | 1,985 | 295 | 318 | 84 | 202 |
| 1974 | 3,023 | 2,032 | 307 | 370 | 96 | 218 |
| 1975 | 3,409 | 2,288 | 332 | 417 | 113 | 259 |
| 1976 | 3,729 | 2,512 | 364 | 446 | 123 | 285 |
| 1977 | 4,067 | 2,726 | 374 | 514 | 139 | 314 |
| 1978 ^d | 4,625 | 3,059 | 414 | 623 | 170 | 359 |
| 1979 | 5,366 | 3,598 | 472 | 735 | 193 | 368 |
| 1980 | 6,063 | 4,098 | 491 | 835 | 236 | 403 |
| 1981 | 6,847 | 4,571 | 546 | 1,004 | 291 | 435 |
| 1982 | 7,324 | 4,768 | 616 | 1,111 | 337 | 491 |
| 1983 | 7,882 | 4,989 | 626 | 1,302 | 389 | 576 |
| 1984 | 8,620 | 5,431 | 690 | 1,411 | 475 | 613 |
| 1985 | 9,687 | 6,064 | 752 | 1,617 | 560 | 694 |
| 1986 | 10,928 | 6,712 | 915 | 1,869 | 700 | 732 |
| 1987 | 12,153 | 7,343 | 1,023 | 2,168 | 790 | 828 |
| 1988 | 13,463 | 8,193 | 1,106 | 2,356 | 872 | 935 |
| 1989 | 14,979 | 8,993 | 1,224 | 2,698 | 994 | 1,071 |
| 1990 | 16,290 | 9,640 | 1,324 | 3,006 | 1,127 | 1,191 |
| 1991 | 17,589 | 10,238 | 1,474 | 3,367 | 1,204 | 1,307 |
| 1992 | 18,821 | 11,095 | 1,491 | 3,548 | 1,279 | 1,409 |
| 1993 | 19,954 | 11,960 | 1,559 | 3,589 | 1,360 | 1,486 |
| 1994 | 21,035 | 12,654 | 1,555 | 3,828 | 1,423 | 1,575 |
| 1995 | 22,179 | 13,337 | 1,690 | 4,048 | 1,489 | 1,614 |
| 1996 | 23,055 | 13,847 | 1,812 | 4,172 | 1,606 | 1,619 |
| 1997 | 24,380 | 14,321 | 1,910 | 4,699 | 1,737 | 1,712 |
| 1998 | 25,867 | 15,159 | 1,945 | 5,004 | 1,889 | 1,871 |
| 1999 | 27,544 | 16,112 | 2,022 | 5,382 | 2,033 | 1,995 |

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(Dollars in millions)

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|-------------------|-----------------------------------|--------------------|----------------------------|-------------------|----------|--------------------------------|
| | | Federal government | State and local government | Institution funds | Business | All other sources ^b |
| 2000 | 30,084 | 17,548 | 2,200 | 5,925 | 2,156 | 2,255 |
| 2001 | 32,801 | 19,227 | 2,320 | 6,614 | 2,218 | 2,422 |
| 2002 | 36,383 | 21,856 | 2,504 | 7,133 | 2,191 | 2,698 |
| 2003 ^e | 41,470 | 25,307 | 2,645 | 7,663 | 2,161 | 2,856 |
| 2004 ^e | 44,839 | 28,304 | 2,879 | 7,752 | 2,129 | 2,851 |
| 2005 ^e | 47,535 | 29,957 | 2,940 | 8,265 | 2,291 | 3,092 |
| 2006 ^e | 49,645 | 30,909 | 2,966 | 9,062 | 2,401 | 3,198 |
| 2007 ^e | 51,590 | 31,241 | 3,151 | 9,718 | 2,675 | 3,521 |
| 2008 ^e | 54,114 | 32,101 | 3,438 | 10,378 | 2,869 | 3,916 |
| 2009 ^e | 57,288 | 33,443 | 3,647 | 11,148 | 3,197 | 4,294 |
| 2010 | 61,287 | 37,478 | 3,887 | 11,943 | 3,202 | 4,777 |
| 2011 | 65,274 | 40,768 | 3,851 | 12,580 | 3,183 | 4,892 |
| 2012 | 65,873 | 40,217 | 3,744 | 13,625 | 3,279 | 5,007 |
| 2013 | 67,145 | 39,510 | 3,706 | 14,974 | 3,515 | 5,440 |
| 2014 | 67,351 | 38,032 | 3,916 | 15,781 | 3,734 | 5,889 |
| 2015 | 68,694 | 37,911 | 3,864 | 16,638 | 4,009 | 6,273 |
| 2016 | 71,911 | 38,858 | 4,053 | 17,944 | 4,219 | 6,836 |
| 2017 | 75,291 | 40,320 | 4,187 | 18,887 | 4,439 | 7,459 |
| 2018 | 79,174 | 41,935 | 4,326 | 20,221 | 4,725 | 7,967 |
| 2019 | 83,643 | 44,540 | 4,520 | 21,115 | 5,064 | 8,404 |
| 2020 | 86,445 | 46,196 | 4,596 | 22,023 | 5,187 | 8,443 |
| 2021 | 89,872 | 49,228 | 4,745 | 22,482 | 5,119 | 8,298 |

S&E = science and engineering.

^a Totals for FYs 1953–2002 represent R&D expenditures in S&E fields only. From FY 2003 through FY 2009, some institution totals for all R&D expenditures may be lower-bound estimates because the National Center for Science and Engineering Statistics did not attempt to estimate for nonresponse on the non-S&E R&D expenditures item prior to FY 2010.

^b Prior to FY 2010, R&D expenditures from nonprofit organizations were collected under all other sources. Beginning in FY 2010, these data were collected separately, and FY 2021 data included \$5,758 million in R&D expenditures from nonprofit sources.

^c Data are estimated based on data collected in surrounding years. Between FY 1953 and FY 1971, surveys were conducted only in years FY 1954, FY 1958, FY 1964, FY 1966, FY 1968, and FY 1970.

^d FY 1978 data are estimated based on data collected from doctorate-granting institutions only.

^e Source of fund detail data do not sum to total for FYs 2003–09 because data by source were collected for S&E fields only. Total non-S&E expenditures were collected in a separate item.

Note(s):

Because of rounding, detail may not add to total.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.