

TABLE 2

Higher education R&D expenditures, by source of funds and survey form: FYs 2010–23

(Dollars in thousands)

| Survey form and fiscal year | All R&D expenditures | Source of funds | | | | | | | | |
|--------------------------------------|----------------------|--------------------|----------------------------|-------------------|-----------------------------------|--------------|----------------------------|-----------|-------------------------|-------------------|
| | | Federal government | State and local government | Institution funds | | | | Business | Nonprofit organizations | All other sources |
| | | | | Total | Institutionally financed research | Cost sharing | Unrecovered indirect costs | | | |
| All institutions | | | | | | | | | | |
| 2010 | 61,286,610 | 37,477,582 | 3,887,106 | 11,942,532 | 6,198,189 | 1,083,275 | 4,661,068 | 3,201,904 | 3,729,655 | 1,047,831 |
| 2011 | 65,274,393 | 40,768,251 | 3,851,323 | 12,580,320 | 6,816,187 | 1,153,646 | 4,610,487 | 3,182,671 | 3,853,950 | 1,037,878 |
| 2012 | 65,872,505 | 40,216,862 | 3,743,834 | 13,625,176 | 7,723,845 | 1,289,013 | 4,612,318 | 3,279,179 | 4,037,021 | 970,433 |
| 2013 | 67,109,094 | 39,510,280 | 3,705,597 | 14,938,337 | 8,906,778 | 1,325,008 | 4,706,551 | 3,514,750 | 3,902,646 | 1,537,484 |
| 2014 | 67,313,484 | 38,031,837 | 3,915,607 | 15,743,421 | 9,636,685 | 1,342,772 | 4,763,964 | 3,733,688 | 3,977,753 | 1,911,178 |
| 2015 | 68,664,244 | 37,910,989 | 3,864,085 | 16,607,970 | 10,445,258 | 1,322,595 | 4,840,117 | 4,008,532 | 4,235,520 | 2,037,148 |
| 2016 | 71,879,960 | 38,856,973 | 4,053,309 | 17,910,816 | 11,446,401 | 1,426,997 | 5,037,418 | 4,220,138 | 4,634,661 | 2,204,063 |
| 2017 | 75,293,270 | 40,319,095 | 4,186,522 | 18,885,880 | 12,130,933 | 1,562,031 | 5,192,916 | 4,439,734 | 5,159,543 | 2,302,496 |
| 2018 | 79,176,358 | 41,933,962 | 4,326,325 | 20,220,107 | 13,195,517 | 1,519,609 | 5,504,981 | 4,726,448 | 5,458,734 | 2,510,782 |
| 2019 | 83,645,800 | 44,538,575 | 4,520,341 | 21,114,079 | 14,010,054 | 1,566,169 | 5,537,856 | 5,065,828 | 5,705,278 | 2,701,699 |
| 2020 | 86,444,096 | 46,182,382 | 4,603,528 | 22,022,579 | 14,645,379 | 1,635,822 | 5,741,378 | 5,189,504 | 5,758,150 | 2,687,953 |
| 2021 | 89,839,693 | 49,192,709 | 4,752,249 | 22,478,596 | 14,972,041 | 1,627,362 | 5,879,193 | 5,122,749 | 5,605,707 | 2,687,683 |
| 2022 | 97,835,067 | 54,056,186 | 4,918,337 | 24,537,136 | 16,655,316 | 1,708,633 | 6,173,187 | 5,706,822 | 5,978,783 | 2,637,803 |
| 2023 | 108,841,148 | 59,678,935 | 5,447,408 | 27,702,412 | 19,207,031 | 1,720,637 | 6,774,744 | 6,230,371 | 6,684,772 | 3,097,250 |
| Short form institutions ^a | | | | | | | | | | |
| 2012 | 143,498 | 74,639 | 10,263 | 37,778 | 32,515 | 2,474 | 2,789 | 5,207 | 14,611 | 1,000 |
| 2013 | 131,528 | 64,349 | 9,175 | 37,529 | 32,116 | 2,360 | 3,053 | 4,221 | 14,000 | 2,254 |
| 2014 | 152,056 | 70,719 | 12,584 | 45,707 | 40,561 | 1,720 | 3,426 | 5,852 | 13,826 | 3,368 |
| 2015 | 144,282 | 64,187 | 9,378 | 45,816 | 41,178 | 1,228 | 3,410 | 5,695 | 15,036 | 4,170 |
| 2016 | 142,766 | 68,991 | 9,893 | 39,967 | 34,391 | 2,182 | 3,394 | 5,696 | 14,099 | 4,120 |
| 2017 | 143,880 | 71,040 | 11,413 | 36,930 | 32,208 | 1,890 | 2,832 | 4,479 | 16,088 | 3,930 |
| 2018 | 150,382 | 73,579 | 13,486 | 41,807 | 36,360 | 2,356 | 3,091 | 5,235 | 13,013 | 3,262 |
| 2019 | 155,370 | 78,214 | 9,789 | 43,144 | 37,034 | 1,927 | 4,183 | 4,481 | 13,615 | 6,127 |
| 2020 | 137,990 | 75,512 | 8,834 | 32,802 | 27,081 | 2,255 | 3,466 | 4,250 | 13,242 | 3,350 |
| 2021 | 138,803 | 74,859 | 9,296 | 33,655 | 28,309 | 1,985 | 3,361 | 3,347 | 13,833 | 3,813 |
| 2022 | 165,490 | 81,289 | 10,801 | 43,871 | 36,701 | 2,594 | 4,576 | 8,095 | 16,447 | 4,987 |
| 2023 | 160,140 | 74,942 | 9,842 | 47,583 | 40,833 | 2,651 | 4,099 | 9,243 | 13,760 | 4,770 |
| Standard form institutions | | | | | | | | | | |
| 2010 | 61,286,610 | 37,477,582 | 3,887,106 | 11,942,532 | 6,198,189 | 1,083,275 | 4,661,068 | 3,201,904 | 3,729,655 | 1,047,831 |
| 2011 | 65,274,393 | 40,768,251 | 3,851,323 | 12,580,320 | 6,816,187 | 1,153,646 | 4,610,487 | 3,182,671 | 3,853,950 | 1,037,878 |
| 2012 | 65,729,007 | 40,142,223 | 3,733,571 | 13,587,398 | 7,691,330 | 1,286,539 | 4,609,529 | 3,273,972 | 4,022,410 | 969,433 |
| 2013 | 66,977,566 | 39,445,931 | 3,696,422 | 14,900,808 | 8,874,662 | 1,322,648 | 4,703,498 | 3,510,529 | 3,888,646 | 1,535,230 |
| 2014 | 67,161,428 | 37,961,118 | 3,903,023 | 15,697,714 | 9,596,124 | 1,341,052 | 4,760,538 | 3,727,836 | 3,963,927 | 1,907,810 |

TABLE 2

Higher education R&D expenditures, by source of funds and survey form: FYs 2010–23

(Dollars in thousands)

| Survey form and fiscal year | All R&D expenditures | Source of funds | | | | | | | | |
|-----------------------------|----------------------|--------------------|----------------------------|-------------------|-----------------------------------|--------------|----------------------------|-----------|-------------------------|-------------------|
| | | Federal government | State and local government | Institution funds | | | | Business | Nonprofit organizations | All other sources |
| | | | | Total | Institutionally financed research | Cost sharing | Unrecovered indirect costs | | | |
| 2015 | 68,519,962 | 37,846,802 | 3,854,707 | 16,562,154 | 10,404,080 | 1,321,367 | 4,836,707 | 4,002,837 | 4,220,484 | 2,032,978 |
| 2016 | 71,737,194 | 38,787,982 | 4,043,416 | 17,870,849 | 11,412,010 | 1,424,815 | 5,034,024 | 4,214,442 | 4,620,562 | 2,199,943 |
| 2017 | 75,149,390 | 40,248,055 | 4,175,109 | 18,848,950 | 12,098,725 | 1,560,141 | 5,190,084 | 4,435,255 | 5,143,455 | 2,298,566 |
| 2018 | 79,025,976 | 41,860,383 | 4,312,839 | 20,178,300 | 13,159,157 | 1,517,253 | 5,501,890 | 4,721,213 | 5,445,721 | 2,507,520 |
| 2019 | 83,490,430 | 44,460,361 | 4,510,552 | 21,070,935 | 13,973,020 | 1,564,242 | 5,533,673 | 5,061,347 | 5,691,663 | 2,695,572 |
| 2020 | 86,306,106 | 46,106,870 | 4,594,694 | 21,989,777 | 14,618,298 | 1,633,567 | 5,737,912 | 5,185,254 | 5,744,908 | 2,684,603 |
| 2021 | 89,700,890 | 49,117,850 | 4,742,953 | 22,444,941 | 14,943,732 | 1,625,377 | 5,875,832 | 5,119,402 | 5,591,874 | 2,683,870 |
| 2022 | 97,669,577 | 53,974,897 | 4,907,536 | 24,493,265 | 16,618,615 | 1,706,039 | 6,168,611 | 5,698,727 | 5,962,336 | 2,632,816 |
| 2023 | 108,681,008 | 59,603,993 | 5,437,566 | 27,654,829 | 19,166,198 | 1,717,986 | 6,770,645 | 6,221,128 | 6,671,012 | 3,092,480 |

^a Beginning with FY 2012, institutions reporting less than \$1 million in total R&D expenditures completed a shorter version of the survey questionnaire. Prior to FY 2012, all institutions completed the standard form survey questionnaire.

Source(s):

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