TABLE 2

**Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2021**

(Dollars in millions)

| Type of activity and fiscal year | All agencies | AID | ARC | DHS | DOC | DOD | DOE[a] | DOI | DOJ | DOL | DOT | ED | EPA | HHS[b] | HUD | NASA | NRC | NSF | SSA | USDA | Other[c] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| All activities | | | | | | | | | | | | | | | | | | | | | |
| 1963 | 1,329 | na | na | na | 2 | 218 | 76 | 4 | na | na | na | na | na | 581 | na | 87 | na | 256 | na | 104 | na |
| 1964 | 1,529 | na | na | na | 2 | 258 | 80 | 5 | na | na | na | na | na | 684 | na | 108 | na | 277 | na | 115 | na |
| 1965 | 1,816 | na | na | na | 3 | 268 | 84 | 10 | na | na | na | na | na | 856 | na | 134 | na | 325 | na | 136 | na |
| 1966 | 2,164 | na | na | na | 3 | 278 | 97 | 19 | na | na | na | na | na | 1,109 | na | 142 | na | 374 | na | 141 | na |
| 1967 | 2,324 | na | na | na | 4 | 264 | 110 | 24 | na | na | na | na | na | 1,251 | na | 131 | na | 395 | na | 145 | na |
| 1968 | 2,350 | na | na | na | 8 | 243 | 120 | 28 | na | 7 | 4 | na | na | 1,229 | 2 | 130 | na | 423 | na | 144 | 12 |
| 1969 | 2,361 | 4 | na | na | 2 | 279 | 121 | 24 | na | 9 | NA | na | na | 1,262 | 1 | 127 | na | 367 | na | 156 | 9 |
| 1970 | 2,188 | 5 | na | na | 4 | 265 | 114 | 28 | na | 4 | 10 | na | na | 1,037 | 1 | 131 | na | 387 | na | 182 | 19 |
| 1971 | 2,343 | 19 | na | na | 8 | 249 | 106 | 23 | na | 5 | 11 | na | 27 | 1,142 | 1 | 134 | na | 388 | na | 215 | 16 |
| 1972 | 2,599 | 19 | na | na | 26 | 244 | 95 | 24 | na | 7 | 16 | na | 23 | 1,318 | 1 | 119 | na | 459 | na | 239 | 8 |
| 1973 | 2,464 | 11 | na | na | 28 | 233 | 96 | 24 | na | 6 | 16 | na | 28 | 1,225 | 1 | 111 | na | 420 | na | 257 | 9 |
| 1974 | 2,739 | 20 | na | na | 29 | 184 | 99 | 24 | na | 7 | 13 | na | 31 | 1,517 | 1 | 99 | na | 450 | na | 261 | 4 |
| 1975 | 2,809 | 12 | na | na | 26 | 190 | 124 | 29 | na | 6 | 21 | na | 39 | 1,469 | 2 | 108 | * | 492 | na | 291 | na |
| 1976 | 2,963 | 13 | na | na | 38 | 212 | 144 | 28 | na | 5 | 16 | na | 33 | 1,524 | 1 | 119 | 3 | 497 | na | 329 | na |
| 1977 | 3,358 | 24 | na | na | 32 | 267 | 208 | 29 | na | 7 | 11 | na | 46 | 1,692 | 4 | 121 | 5 | 567 | na | 343 | na |
| 1978 | 3,969 | 28 | na | na | 36 | 452 | 267 | 43 | na | 13 | 18 | na | 57 | 1,905 | 11 | 131 | 8 | 609 | na | 392 | na |
| 1979 | 4,481 | 29 | na | na | 48 | 529 | 274 | 40 | na | 11 | 11 | 0 | 67 | 2,220 | 4 | 144 | 7 | 675 | na | 423 | na |
| 1980 | 4,801 | 39 | na | na | 52 | 556 | 310 | 42 | na | 10 | 19 | 48 | 81 | 2,287 | 4 | 171 | 7 | 730 | na | 444 | na |
| 1981 | 5,078 | 31 | na | na | 52 | 726 | 310 | 34 | na | 13 | 29 | 56 | 68 | 2,372 | 3 | 184 | 7 | 702 | na | 491 | na |
| 1982 | 5,194 | 50 | na | na | 41 | 857 | 288 | 28 | na | 8 | 12 | 36 | 84 | 2,343 | 3 | 177 | 5 | 732 | na | 530 | na |
| 1983 | 5,705 | 43 | na | na | 51 | 940 | 320 | 32 | na | 6 | 25 | 35 | 50 | 2,612 | 2 | 214 | 5 | 804 | na | 566 | na |
| 1984 | 6,359 | 56 | na | na | 106 | 955 | 349 | 32 | na | 3 | 14 | 44 | 52 | 2,946 | * | 228 | 5 | 962 | na | 608 | na |
| 1985 | 7,317 | 57 | na | na | 81 | 1,061 | 454 | 33 | na | 3 | 8 | 70 | 65 | 3,453 | * | 267 | 5 | 1,106 | na | 653 | na |
| 1986 | 7,492 | 44 | na | na | 70 | 1,206 | 425 | 41 | na | 4 | 14 | 74 | 71 | 3,548 | * | 290 | 4 | 1,081 | na | 621 | na |
| 1987 | 8,635 | 53 | na | na | 89 | 1,279 | 482 | 39 | na | 8 | 15 | 281 | 74 | 4,211 | * | 328 | 4 | 1,097 | na | 675 | na |
| 1988 | 9,219 | 48 | na | na | 82 | 1,378 | 548 | 42 | na | 8 | 24 | 256 | 66 | 4,504 | * | 388 | 4 | 1,130 | na | 742 | na |
| 1989 | 10,201 | 65 | na | na | 77 | 1,486 | 611 | 56 | na | 7 | 25 | 270 | 86 | 4,935 | 0 | 490 | 4 | 1,366 | na | 722 | na |
| 1990 | 10,725 | 47 | na | na | 118 | 1,342 | 726 | 60 | na | 9 | 43 | 260 | 94 | 5,223 | * | 545 | 5 | 1,476 | na | 762 | 17 |
| 1991 | 12,254 | 32 | na | na | 125 | 1,541 | 903 | 83 | na | 6 | 44 | 354 | 116 | 5,848 | * | 644 | 5 | 1,675 | na | 868 | 11 |
| 1992 | 13,416 | 28 | na | na | 132 | 1,512 | 1,175 | 80 | na | 9 | 58 | 402 | 150 | 6,310 | * | 736 | 6 | 1,863 | na | 949 | 4 |
| 1993 | 13,452 | 12 | na | na | 110 | 1,835 | 1,233 | 78 | na | 7 | 99 | 156 | 153 | 6,124 | * | 787 | 5 | 1,905 | na | 948 | 0 |
| 1994 | 14,007 | 13 | na | na | 164 | 1,893 | 638 | 64 | na | 5 | 67 | 171 | 145 | 7,004 | 1 | 806 | 6 | 2,084 | na | 946 | * |
| 1995 | 14,599 | 168 | na | na | 183 | 1,853 | 641 | 55 | na | 6 | 80 | 188 | 165 | 7,153 | 2 | 895 | 6 | 2,247 | na | 953 | 5 |
| 1996 | 14,587 | 108 | na | na | 211 | 1,788 | 658 | 45 | 10 | 6 | 62 | 175 | 103 | 7,470 | 2 | 826 | 4 | 2,242 | 1 | 876 | * |
| 1997 | 15,263 | 26 | na | na | 222 | 1,715 | 650 | 58 | 17 | 5 | 75 | 171 | 166 | 7,982 | 3 | 890 | 5 | 2,298 | * | 981 | * |
| 1998 | 16,271 | 34 | * | na | 207 | 1,712 | 636 | 66 | 20 | 6 | 75 | 243 | 201 | 8,698 | 1 | 994 | 5 | 2,498 | 5 | 868 | 0 |
| 1999 | 18,134 | 30 | * | na | 313 | 1,805 | 655 | 82 | 23 | 11 | 107 | 326 | 181 | 9,890 | 1 | 1,101 | 5 | 2,653 | 5 | 946 | 0 |
| 2000 | 19,954 | 34 | * | na | 304 | 2,009 | 706 | 88 | 19 | 15 | 127 | 183 | 152 | 11,374 | 2 | 1,088 | 5 | 2,759 | 6 | 1,083 | 0 |
| 2001 | 22,585 | 31 | * | na | 371 | 2,164 | 772 | 99 | 22 | 16 | 160 | 188 | 190 | 12,897 | 2 | 1,202 | 5 | 3,255 | 9 | 1,202 | 0 |
| 2002 | 24,571 | 34 | * | na | 317 | 2,365 | 742 | 96 | 25 | 46 | 135 | 146 | 166 | 14,575 | 1 | 1,326 | 4 | 3,497 | 7 | 1,087 | 0 |
| 2003 | 26,727 | 27 | * | 2 | 392 | 2,534 | 763 | 96 | 38 | 44 | 152 | 229 | 146 | 15,911 | 1 | 1,338 | 3 | 3,896 | 9 | 1,146 | 0 |
| 2004 | 27,412 | 27 | * | 10 | 324 | 2,474 | 808 | 109 | 22 | 33 | 150 | 232 | 136 | 16,534 | 2 | 1,239 | 4 | 4,146 | 5 | 1,156 | 0 |
| 2005 | 28,170 | 27 | * | 40 | 406 | 2,394 | 945 | 71 | 27 | 36 | 140 | 308 | 163 | 17,256 | 1 | 1,158 | 4 | 3,953 | 8 | 1,231 | 0 |
| 2006 | 28,423 | 27 | * | 26 | 551 | 2,579 | 906 | 92 | 22 | 30 | 171 | 250 | 117 | 17,218 | 1 | 1,003 | 4 | 4,153 | 6 | 1,265 | 0 |
| 2007 | 28,413 | 30 | * | 33 | 343 | 2,828 | 835 | 89 | 6 | 31 | 112 | 269 | 93 | 17,584 | * | 577 | 3 | 4,318 | 6 | 1,254 | na |
| 2008 | 28,586 | 26 | * | 87 | 327 | 2,835 | 1,116 | 98 | 4 | 1 | 127 | 131 | 79 | 17,316 | * | 740 | 2 | 4,442 | 4 | 1,253 | na |
| 2009[d] | 35,874 | 28 | * | 89 | 425 | 3,192 | 1,706 | 107 | 0 | * | 188 | 153 | 67 | 20,870 | * | 788 | 1 | 6,945 | 8 | 1,307 | na |
| 2010[d] | 35,946 | 15 | * | 88 | 534 | 3,563 | 1,766 | 119 | 7 | 0 | 251 | 323 | 72 | 21,473 | * | 679 | 6 | 5,643 | 14 | 1,391 | na |

TABLE 2

**Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2021**

(Dollars in millions)

| Type of activity and fiscal year | All agencies | AID | ARC | DHS | DOC | DOD | DOE[a] | DOI | DOJ | DOL | DOT | ED | EPA | HHS[b] | HUD | NASA | NRC | NSF | SSA | USDA | Other[c] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2011 | 31,762 | 22 | 0 | 84 | 301 | 3,940 | 1,182 | 114 | 8 | 0 | 231 | 228 | 64 | 18,265 | 2 | 654 | 4 | 5,206 | 5 | 1,451 | na |
| 2012 | 31,216 | 66 | 1 | 69 | 267 | 3,654 | 1,037 | 107 | 32 | 0 | 194 | 176 | 71 | 17,998 | * | 1,094 | 4 | 5,221 | 4 | 1,222 | na |
| 2013 | 29,407 | 89 | 0 | 61 | 271 | 3,384 | 1,080 | 51 | 7 | 0 | 128 | 180 | 49 | 16,903 | 4 | 1,006 | 5 | 5,048 | 5 | 1,136 | na |
| 2014 | 31,159 | 56 | * | 46 | 329 | 3,721 | 1,535 | 80 | 7 | 0 | 170 | 93 | 73 | 17,528 | * | 1,088 | 5 | 5,113 | 4 | 1,312 | na |
| 2015 | 30,563 | 50 | * | 73 | 340 | 3,503 | 1,288 | 79 | 4 | 0 | 144 | 124 | 44 | 17,024 | 1 | 1,137 | 4 | 5,315 | 6 | 1,426 | na |
| 2016 | 31,649 | 36 | * | 47 | 307 | 3,758 | 1,097 | 73 | 3 | 0 | 141 | 95 | 71 | 18,199 | 2 | 1,167 | 3 | 5,294 | 6 | 1,349 | na |
| 2017 | 32,440 | 49 | * | 39 | 408 | 4,178 | 995 | 55 | 1 | 0 | 135 | 84 | 31 | 19,053 | 1 | 1,102 | 3 | 5,359 | 5 | 941 | na |
| 2018 | 35,304 | 56 | * | 35 | 397 | 4,633 | 1,376 | 48 | 1 | 0 | 65 | 198 | 20 | 20,723 | 3 | 1,138 | 2 | 5,630 | 8 | 971 | na |
| 2019 | 38,084 | 57 | 1 | 20 | 424 | 4,680 | 1,370 | 64 | 8 | 0 | 249 | 177 | 9 | 22,638 | 2 | 1,078 | 1 | 6,058 | 9 | 1,242 | na |
| 2020 | 39,122 | 50 | * | 26 | 416 | 2,752 | 1,673 | 94 | 1 | 0 | 431 | 208 | 33 | 24,883 | na | 1,324 | 3 | 6,170 | 9 | 1,047 | na |
| 2021 | 43,223 | 15 | * | 36 | 454 | 5,351 | 1,595 | 71 | 37 | 0 | 170 | 192 | 47 | 25,610 | na | 1,396 | 20 | 6,381 | 6 | 1,842 | * |
| R&D | | | | | | | | | | | | | | | | | | | | | |
| 1963 | 830 | na | na | na | 2 | 218 | 68 | 4 | na | na | na | na | na | 333 | na | 60 | na | 105 | na | 41 | na |
| 1964 | 976 | na | na | na | 1 | 258 | 71 | 5 | na | na | na | na | na | 399 | na | 78 | na | 116 | na | 47 | na |
| 1965 | 1,095 | na | na | na | 2 | 268 | 75 | 10 | na | na | na | na | na | 442 | na | 101 | na | 139 | na | 59 | na |
| 1966 | 1,252 | na | na | na | 2 | 278 | 83 | 19 | na | na | na | na | na | 507 | na | 107 | na | 193 | na | 63 | na |
| 1967 | 1,301 | na | na | na | 3 | 264 | 90 | 24 | na | na | na | na | na | 577 | na | 109 | na | 170 | na | 64 | na |
| 1968 | 1,398 | na | na | na | 7 | 243 | 102 | 28 | na | 7 | 4 | na | na | 619 | 1 | 126 | na | 188 | na | 62 | 12 |
| 1969 | 1,475 | 4 | na | na | 2 | 279 | 103 | 23 | na | 9 | NA | na | na | 667 | 1 | 122 | na | 192 | na | 64 | 9 |
| 1970 | 1,447 | 5 | na | na | 3 | 265 | 101 | 27 | na | 4 | 10 | na | na | 615 | 1 | 127 | na | 201 | na | 67 | 19 |
| 1971 | 1,551 | 17 | na | na | 7 | 249 | 96 | 21 | na | 3 | 8 | na | 17 | 696 | 1 | 129 | na | 217 | na | 75 | 16 |
| 1972 | 1,853 | 13 | na | na | 24 | 244 | 87 | 23 | na | 7 | 12 | na | 18 | 879 | 1 | 112 | na | 335 | na | 89 | 8 |
| 1973 | 1,871 | 8 | na | na | 25 | 233 | 85 | 22 | na | 5 | 15 | na | 19 | 904 | 1 | 103 | na | 349 | na | 94 | 9 |
| 1974 | 2,087 | 18 | na | na | 27 | 184 | 95 | 22 | na | 6 | 11 | na | 24 | 1,131 | 1 | 92 | na | 376 | na | 97 | 3 |
| 1975 | 2,249 | 8 | na | na | 22 | 190 | 119 | 27 | na | 4 | 18 | na | 34 | 1,207 | 2 | 100 | 0 | 406 | na | 111 | na |
| 1976 | 2,434 | 11 | na | na | 29 | 212 | 138 | 26 | na | 3 | 15 | na | 29 | 1,298 | 1 | 107 | 3 | 438 | na | 124 | na |
| 1977 | 2,808 | 20 | na | na | 32 | 267 | 187 | 27 | na | 7 | 10 | na | 45 | 1,456 | 4 | 114 | 4 | 492 | na | 142 | na |
| 1978 | 3,395 | 25 | na | na | 35 | 452 | 251 | 34 | na | 13 | 16 | na | 54 | 1,662 | 11 | 125 | 8 | 533 | na | 175 | na |
| 1979 | 3,882 | 28 | na | na | 47 | 529 | 256 | 35 | na | 11 | 11 | 0 | 61 | 1,971 | 4 | 137 | 6 | 591 | na | 194 | na |
| 1980 | 4,170 | 39 | na | na | 50 | 556 | 280 | 39 | na | 10 | 19 | 48 | 77 | 2,032 | 4 | 161 | 6 | 638 | na | 212 | na |
| 1981 | 4,426 | 31 | na | na | 51 | 701 | 282 | 30 | na | 13 | 28 | 56 | 64 | 2,121 | 3 | 174 | 7 | 624 | na | 241 | na |
| 1982 | 4,569 | 50 | na | na | 40 | 814 | 265 | 22 | na | 8 | 12 | 36 | 78 | 2,121 | 1 | 168 | 5 | 694 | na | 257 | na |
| 1983 | 5,049 | 43 | na | na | 50 | 913 | 297 | 21 | na | 6 | 25 | 35 | 45 | 2,370 | 1 | 199 | 5 | 764 | na | 274 | na |
| 1984 | 5,499 | 56 | na | na | 76 | 828 | 318 | 32 | na | 3 | 13 | 44 | 47 | 2,693 | * | 215 | 5 | 896 | na | 273 | na |
| 1985 | 6,305 | 57 | na | na | 80 | 909 | 376 | 33 | na | 3 | 7 | 70 | 62 | 3,112 | * | 253 | 5 | 1,038 | na | 301 | na |
| 1986 | 6,517 | 44 | na | na | 68 | 1,055 | 351 | 41 | na | 4 | 13 | 72 | 68 | 3,224 | * | 274 | 4 | 1,009 | na | 290 | na |
| 1987 | 7,308 | 53 | na | na | 88 | 1,099 | 379 | 39 | na | 8 | 13 | 85 | 67 | 3,851 | * | 311 | 4 | 1,015 | na | 296 | na |
| 1988 | 7,802 | 48 | na | na | 77 | 1,194 | 419 | 39 | na | 8 | 21 | 70 | 64 | 4,146 | * | 364 | 4 | 1,026 | na | 321 | na |
| 1989 | 8,639 | 65 | na | na | 69 | 1,221 | 485 | 53 | na | 6 | 22 | 69 | 78 | 4,531 | 0 | 464 | 4 | 1,236 | na | 336 | na |
| 1990 | 9,158 | 47 | na | na | 104 | 1,197 | 554 | 58 | na | 9 | 39 | 71 | 87 | 4,799 | * | 504 | 5 | 1,335 | na | 349 | 0 |
| 1991 | 10,298 | 32 | na | na | 65 | 1,324 | 714 | 70 | na | 6 | 34 | 95 | 104 | 5,384 | * | 584 | 5 | 1,471 | na | 409 | 0 |
| 1992 | 11,129 | 28 | na | na | 70 | 1,317 | 726 | 68 | na | 9 | 36 | 105 | 135 | 5,884 | * | 638 | 6 | 1,637 | na | 470 | 0 |
| 1993 | 11,253 | 12 | na | na | 58 | 1,588 | 710 | 70 | na | 6 | 76 | 95 | 143 | 5,710 | * | 659 | 5 | 1,651 | na | 468 | 0 |
| 1994 | 12,029 | 13 | na | na | 86 | 1,605 | 605 | 64 | na | 5 | 58 | 49 | 135 | 6,516 | 1 | 701 | 6 | 1,712 | na | 475 | 0 |
| 1995 | 12,318 | 25 | na | na | 103 | 1,611 | 607 | 54 | na | 6 | 72 | 68 | 149 | 6,629 | 2 | 772 | 6 | 1,768 | na | 447 | 0 |
| 1996 | 12,483 | 20 | na | na | 115 | 1,603 | 635 | 43 | 10 | 6 | 56 | 69 | 90 | 6,921 | 2 | 740 | 4 | 1,774 | 1 | 395 | 0 |
| 1997 | 13,186 | 12 | na | na | 117 | 1,522 | 630 | 58 | 17 | 5 | 71 | 64 | 151 | 7,386 | 3 | 794 | 5 | 1,865 | * | 486 | 0 |
| 1998 | 14,050 | 10 | * | na | 102 | 1,549 | 615 | 66 | 20 | 6 | 38 | 98 | 183 | 8,041 | 1 | 861 | 5 | 2,019 | 5 | 430 | 0 |
| 1999 | 15,658 | 11 | * | na | 142 | 1,691 | 637 | 82 | 22 | 9 | 71 | 108 | 165 | 9,119 | 1 | 967 | 5 | 2,122 | 5 | 502 | 0 |

TABLE 2

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(Dollars in millions)

| Type of activity and fiscal year | All agencies | AID | ARC | DHS | DOC | DOD | DOE[a] | DOI | DOJ | DOL | DOT | ED | EPA | HHS[b] | HUD | NASA | NRC | NSF | SSA | USDA | Other[c] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2000 | 17,387 | 16 | * | na | 136 | 1,834 | 699 | 88 | 19 | 14 | 66 | 67 | 137 | 10,513 | 2 | 930 | 5 | 2,290 | 6 | 566 | 0 |
| 2001 | 19,515 | 15 | * | na | 156 | 1,959 | 762 | 99 | 22 | 15 | 85 | 72 | 170 | 11,956 | 2 | 982 | 5 | 2,542 | 9 | 665 | 0 |
| 2002 | 21,347 | 19 | * | na | 135 | 2,105 | 733 | 96 | 25 | 46 | 69 | 31 | 145 | 13,434 | 1 | 1,164 | 4 | 2,728 | 7 | 604 | 0 |
| 2003 | 22,891 | 13 | * | 2 | 182 | 2,229 | 757 | 96 | 38 | 44 | 83 | 93 | 134 | 14,382 | 1 | 1,161 | 3 | 3,016 | 5 | 654 | 0 |
| 2004 | 23,833 | 13 | * | 8 | 195 | 2,150 | 803 | 109 | 21 | 33 | 78 | 110 | 127 | 15,156 | 2 | 1,181 | 4 | 3,172 | 3 | 668 | 0 |
| 2005 | 24,700 | 13 | * | 37 | 226 | 2,163 | 941 | 69 | 27 | 35 | 47 | 155 | 150 | 15,878 | 1 | 1,089 | 4 | 3,132 | 7 | 725 | 0 |
| 2006 | 25,013 | 13 | * | 24 | 283 | 2,443 | 905 | 88 | 22 | 30 | 48 | 127 | 106 | 16,002 | 1 | 1,003 | 4 | 3,164 | 5 | 743 | 0 |
| 2007 | 25,125 | 30 | * | 30 | 214 | 2,653 | 833 | 86 | 6 | 31 | 56 | 126 | 87 | 16,317 | * | 577 | 3 | 3,336 | 4 | 734 | na |
| 2008 | 25,611 | 26 | * | 85 | 160 | 2,520 | 1,110 | 98 | 4 | 1 | 48 | 93 | 73 | 16,381 | * | 740 | 2 | 3,550 | 2 | 718 | na |
| 2009[d] | 32,082 | 28 | * | 89 | 177 | 2,969 | 1,692 | 105 | 0 | * | 110 | 98 | 62 | 19,807 | * | 788 | 1 | 5,424 | 7 | 724 | na |
| 2010[d] | 31,002 | 15 | * | 88 | 260 | 3,461 | 1,757 | 119 | 7 | 0 | 160 | 263 | 72 | 19,307 | * | 674 | 6 | 4,038 | 11 | 764 | na |
| 2011 | 28,203 | 22 | 0 | 84 | 193 | 3,117 | 1,177 | 114 | 8 | 0 | 124 | 178 | 59 | 17,379 | 2 | 654 | 4 | 4,310 | 3 | 776 | na |
| 2012 | 27,700 | 66 | 1 | 69 | 160 | 2,771 | 1,028 | 107 | 32 | 0 | 99 | 132 | 65 | 17,152 | * | 1,094 | 4 | 4,259 | 1 | 659 | na |
| 2013 | 26,156 | 89 | 0 | 58 | 178 | 2,509 | 1,072 | 51 | 7 | 0 | 55 | 152 | 42 | 16,072 | 4 | 1,006 | 5 | 4,263 | 2 | 591 | na |
| 2014 | 27,652 | 56 | * | 37 | 215 | 2,788 | 1,384 | 79 | 7 | 0 | 81 | 67 | 69 | 16,639 | * | 1,088 | 5 | 4,404 | 2 | 730 | na |
| 2015 | 27,106 | 50 | * | 63 | 217 | 2,679 | 1,145 | 78 | 4 | 0 | 70 | 107 | 40 | 16,166 | 1 | 1,137 | 4 | 4,570 | 4 | 770 | na |
| 2016 | 28,533 | 36 | * | 47 | 188 | 3,191 | 947 | 73 | 3 | 0 | 77 | 77 | 68 | 17,296 | 2 | 1,167 | 3 | 4,569 | 4 | 785 | na |
| 2017 | 29,805 | 49 | * | 39 | 325 | 3,653 | 847 | 55 | 1 | 0 | 70 | 59 | 28 | 18,143 | 1 | 1,102 | 3 | 4,567 | 3 | 858 | na |
| 2018 | 32,313 | 56 | * | 35 | 290 | 3,993 | 1,233 | 48 | 1 | 0 | 48 | 173 | 18 | 19,640 | 3 | 1,138 | 2 | 4,766 | 7 | 861 | na |
| 2019 | 35,125 | 57 | 1 | 20 | 349 | 4,680 | 1,263 | 64 | 0 | 0 | 161 | 158 | 8 | 21,387 | 2 | 1,078 | 1 | 4,975 | 8 | 915 | na |
| 2020 | 36,569 | 50 | * | 26 | 324 | 2,732 | 1,590 | 94 | * | 0 | 269 | 188 | 29 | 23,727 | na | 1,324 | 3 | 5,316 | 8 | 888 | na |
| 2021 | 39,504 | 15 | * | 36 | 398 | 4,620 | 1,589 | 71 | 37 | 0 | 162 | 182 | 47 | 24,355 | na | 1,396 | 10 | 5,487 | 6 | 1,095 | * |
| R&D plant | | | | | | | | | | | | | | | | | | | | | |
| 1963 | 106 | na | na | na | 0 | 0 | 3 | * | na | na | na | na | na | 39 | na | 13 | na | 51 | na | 0 | na |
| 1964 | 101 | na | na | na | 0 | 0 | 4 | 0 | na | na | na | na | na | 40 | na | 9 | na | 48 | na | 0 | na |
| 1965 | 126 | na | na | na | 0 | 0 | 4 | * | na | na | na | na | na | 55 | na | 8 | na | 56 | na | 3 | na |
| 1966 | 115 | na | na | na | 0 | 0 | 7 | * | na | na | na | na | na | 49 | na | 7 | na | 49 | na | 2 | na |
| 1967 | 111 | na | na | na | * | 0 | 14 | 0 | na | na | na | na | na | 38 | na | 5 | na | 52 | na | 2 | na |
| 1968 | 96 | na | na | na | * | 0 | 12 | 0 | na | 0 | 0 | na | na | 37 | 0 | 0 | na | 45 | na | 2 | 0 |
| 1969 | 55 | 0 | na | na | 0 | 0 | 11 | * | na | 0 | NA | na | na | 21 | 0 | 0 | na | 21 | na | 1 | 0 |
| 1970 | 45 | 0 | na | na | * | 0 | 7 | 0 | na | 0 | 0 | na | na | 20 | 0 | 0 | na | 16 | na | 1 | 0 |
| 1971 | 30 | 0 | na | na | 0 | 0 | 5 | 0 | na | 0 | 0 | na | 0 | 15 | 0 | * | na | 10 | na | 0 | 0 |
| 1972 | 37 | 0 | na | na | 0 | 0 | 4 | 0 | na | 0 | 0 | na | 0 | 22 | 0 | 1 | na | 10 | na | 0 | 0 |
| 1973 | 43 | 0 | na | na | * | 0 | 6 | * | na | 0 | 0 | na | 0 | 27 | 0 | 3 | na | 7 | na | 0 | 0 |
| 1974 | 29 | 0 | na | na | 0 | 0 | 4 | 0 | na | 0 | 0 | na | 0 | 15 | 0 | * | na | 10 | na | 0 | 0 |
| 1975 | 45 | 0 | na | na | 0 | 0 | 4 | 0 | na | 0 | 0 | na | 0 | 23 | 0 | * | 0 | 18 | na | 0 | na |
| 1976 | 24 | 0 | na | na | 1 | 0 | 6 | 0 | na | 0 | 0 | na | 0 | 11 | 0 | * | 0 | 6 | na | 0 | na |
| 1977 | 38 | 0 | na | na | 0 | 0 | 18 | 0 | na | 0 | 1 | na | 0 | 13 | 0 | * | 0 | 7 | na | 0 | na |
| 1978 | 34 | 0 | na | na | 0 | 0 | 13 | 0 | na | 0 | * | na | * | 10 | 0 | 0 | 0 | 11 | na | 0 | na |
| 1979 | 32 | 1 | na | na | 0 | 0 | 9 | 0 | na | 0 | 0 | 0 | 0 | 8 | 0 | * | 0 | 15 | na | 0 | na |
| 1980 | 38 | 0 | na | na | 0 | 0 | 21 | 0 | na | 0 | 0 | 0 | 0 | 4 | 0 | * | 0 | 13 | na | 0 | na |
| 1981 | 28 | 0 | na | na | 0 | 1 | 20 | 0 | na | 0 | 0 | 0 | 0 | 2 | 0 | * | 0 | 5 | na | 0 | na |
| 1982 | 31 | 0 | na | na | 0 | * | 19 | 0 | na | 0 | 0 | 0 | 1 | 5 | 0 | * | 0 | 5 | na | 0 | na |
| 1983 | 38 | 0 | na | na | 0 | 0 | 17 | 0 | na | 0 | 0 | 0 | * | 1 | 0 | 2 | 0 | 8 | na | 10 | na |
| 1984 | 50 | 0 | na | na | 0 | 0 | 29 | 0 | na | 0 | 0 | 0 | * | 1 | 0 | * | 0 | 10 | na | 10 | na |
| 1985 | 114 | 0 | na | na | 0 | * | 78 | 0 | na | 0 | 0 | 0 | * | 11 | 0 | * | 0 | 15 | na | 10 | na |
| 1986 | 106 | 0 | na | na | 1 | 0 | 73 | 0 | na | 0 | 0 | 2 | 0 | 4 | 0 | * | 0 | 16 | na | 9 | na |
| 1987 | 230 | 0 | na | na | * | 0 | 103 | 0 | na | 0 | 0 | 49 | 0 | 4 | 0 | 1 | 0 | 7 | na | 65 | na |
| 1988 | 203 | 0 | na | na | 0 | 0 | 128 | 0 | na | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 5 | na | 68 | na |

TABLE 2

**Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2021**

(Dollars in millions)

| Type of activity and fiscal year | All agencies | AID | ARC | DHS | DOC | DOD | DOE[a] | DOI | DOJ | DOL | DOT | ED | EPA | HHS[b] | HUD | NASA | NRC | NSF | SSA | USDA | Other[c] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1989 | 246 | 0 | na | na | 1 | 58 | 125 | 0 | na | 0 | 0 | 1 | 0 | 22 | 0 | 1 | 0 | 7 | na | 31 | na |
| 1990 | 254 | 0 | na | na | * | 0 | 170 | 0 | na | 0 | 0 | 0 | 0 | 14 | 0 | 1 | 0 | 7 | na | 45 | 17 |
| 1991 | 304 | 0 | na | na | * | 15 | 182 | 0 | na | 0 | 0 | 2 | 0 | 26 | 0 | 1 | 0 | 9 | na | 58 | 11 |
| 1992 | 585 | 0 | na | na | * | 0 | 440 | 0 | na | 0 | 0 | * | 0 | 17 | 0 | 1 | 0 | 64 | na | 58 | 4 |
| 1993 | 649 | 0 | na | na | * | 0 | 509 | 0 | na | 0 | 0 | 0 | 0 | 11 | 0 | 10 | 0 | 63 | na | 55 | 0 |
| 1994 | 226 | 0 | na | na | * | * | 25 | * | na | 0 | 2 | 0 | 0 | 16 | 0 | 20 | 0 | 123 | na | 39 | * |
| 1995 | 341 | 0 | na | na | 2 | 6 | 16 | 0 | na | * | 1 | 0 | 0 | 12 | 0 | 16 | 0 | 217 | na | 67 | 5 |
| 1996 | 248 | 0 | na | na | 0 | 2 | 16 | 0 | 0 | 0 | 1 | 0 | 0 | 18 | 0 | 0 | 0 | 160 | 0 | 51 | * |
| 1997 | 276 | 0 | na | na | 4 | 12 | 13 | 0 | 0 | 0 | 2 | 0 | 0 | 39 | 0 | 1 | 0 | 147 | 0 | 59 | * |
| 1998 | 160 | 0 | 0 | na | 3 | * | 12 | 0 | 0 | 0 | * | 0 | 0 | 21 | 0 | 0 | 0 | 124 | 0 | 0 | 0 |
| 1999 | 160 | 0 | 0 | na | 3 | * | 10 | 0 | 0 | 0 | 1 | 0 | 0 | 32 | 0 | 4 | 0 | 110 | 0 | 0 | 0 |
| 2000 | 219 | 0 | 0 | na | 1 | 0 | 7 | 0 | 0 | 0 | 2 | 0 | 0 | 75 | 0 | 14 | 0 | 120 | 0 | * | 0 |
| 2001 | 367 | 0 | 0 | na | 13 | 0 | 9 | 0 | 0 | 0 | 3 | 0 | 0 | 75 | 0 | 67 | 0 | 201 | 0 | 0 | 0 |
| 2002 | 249 | 0 | 0 | na | 1 | * | 9 | 0 | 0 | 0 | 2 | 0 | 0 | 100 | 0 | 3 | 0 | 134 | 0 | 0 | 0 |
| 2003 | 707 | 0 | 0 | * | 9 | * | 7 | 0 | 0 | 0 | 1 | 0 | 0 | 479 | 0 | 21 | 0 | 190 | 0 | * | 0 |
| 2004 | 435 | 0 | 0 | 1 | 26 | 0 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 117 | 0 | 59 | 0 | 226 | 0 | 0 | 0 |
| 2005 | 511 | 0 | 0 | 3 | 47 | * | 4 | * | 0 | 0 | 1 | 0 | 0 | 188 | 0 | 69 | 0 | 200 | 0 | 0 | 0 |
| 2006 | 398 | 0 | 0 | 2 | 53 | 1 | 1 | 3 | * | 0 | 3 | 0 | 0 | 40 | 0 | 0 | 0 | 295 | 0 | 0 | 0 |
| 2007 | 338 | 0 | 0 | 4 | 46 | * | 2 | 1 | * | 0 | 1 | 0 | 0 | 24 | 0 | 0 | 0 | 259 | 0 | 0 | na |
| 2008 | 277 | 0 | 0 | 2 | 48 | 1 | 6 | 0 | 0 | 0 | 2 | 0 | 0 | 42 | 0 | 0 | 0 | 178 | 0 | * | na |
| 2009[d] | 806 | 0 | 0 | * | 51 | 0 | 14 | 2 | 0 | 0 | 1 | 0 | 0 | 97 | 0 | 0 | 0 | 640 | 0 | 0 | na |
| 2010[d] | 1,831 | 0 | 0 | 0 | 36 | 0 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 890 | 0 | 5 | 0 | 894 | 0 | * | na |
| 2011 | 330 | 0 | 0 | 0 | 35 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 18 | 0 | * | 0 | 275 | 0 | 0 | na |
| 2012 | 437 | 0 | 0 | 0 | 25 | 0 | 0 | * | 0 | 0 | 1 | 0 | 0 | 6 | 0 | 0 | 0 | 404 | 0 | * | na |
| 2013 | 273 | 0 | 0 | 3 | 8 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 0 | 250 | 0 | 1 | na |
| 2014 | 400 | 0 | 0 | 9 | 21 | 0 | 55 | 1 | 0 | 0 | * | 0 | 0 | 67 | 0 | 0 | 0 | 246 | 0 | 0 | na |
| 2015 | 371 | 0 | 0 | 0 | 21 | 0 | 92 | 0 | 0 | 0 | 1 | 0 | 0 | 7 | 0 | 0 | 0 | 250 | 0 | 0 | na |
| 2016 | 370 | 0 | 0 | 0 | 17 | 0 | 108 | 0 | 0 | 0 | * | 0 | 0 | 6 | 0 | 0 | 0 | 239 | 0 | 0 | na |
| 2017 | 432 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 326 | 0 | 0 | na |
| 2018 | 506 | 0 | 0 | 0 | 0 | 0 | 97 | 0 | 0 | 0 | * | 0 | 0 | 8 | 0 | 0 | 0 | 401 | 0 | 0 | na |
| 2019 | 594 | 0 | 0 | 0 | 0 | 0 | 75 | 0 | 0 | 0 | * | 0 | 0 | 70 | 0 | 0 | 0 | 448 | 0 | 0 | na |
| 2020 | 400 | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 1 | 0 | 0 | 55 | na | 0 | 0 | 304 | 0 | 0 | na |
| 2021 | 419 | 0 | 0 | 0 | * | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | na | 0 | 0 | 325 | 0 | 0 | 0 |
| Facilities and equipment for instruction in S&E | | | | | | | | | | | | | | | | | | | | | |
| 1971[e] | 29 | 0 | na | na | 0 | 0 | 2 | * | na | 0 | 0 | na | 0 | 14 | 0 | 0 | na | 12 | na | * | 0 |
| 1972 | 26 | 0 | na | na | 0 | 0 | 2 | 0 | na | 0 | 0 | na | 0 | 21 | 0 | 0 | na | 3 | na | * | 0 |
| 1973 | 13 | 0 | na | na | 0 | 0 | 2 | * | na | 0 | 0 | na | 0 | 9 | 0 | 0 | na | 2 | na | 0 | 0 |
| 1974 | 4 | 0 | na | na | 0 | 0 | 0 | * | na | 0 | 0 | na | 0 | * | 0 | 0 | na | 3 | na | 0 | 0 |
| 1975 | 5 | 0 | na | na | * | 0 | 0 | 0 | na | 0 | 0 | na | 0 | 5 | 0 | 0 | 0 | * | na | 0 | na |
| 1976 | 3 | 0 | na | na | * | 0 | 0 | 0 | na | 0 | 0 | na | 0 | 0 | 0 | 0 | 0 | 3 | na | 0 | na |
| 1977 | 3 | 0 | na | na | 0 | 0 | * | 0 | na | 0 | 0 | na | 0 | 0 | 0 | 0 | 0 | 3 | na | 0 | na |
| 1978 | 5 | 0 | na | na | 0 | 0 | 1 | * | na | 0 | 0 | na | 0 | 0 | 0 | 0 | 0 | 4 | na | 0 | na |
| 1979 | 7 | 0 | na | na | 0 | 0 | 3 | 0 | na | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | na | 0 | na |
| 1980 | 4 | 0 | na | na | 0 | 0 | 1 | 0 | na | 0 | 0 | 0 | * | 0 | 0 | 0 | 0 | 3 | na | 0 | na |
| 1981 | 5 | 0 | na | na | 0 | * | 1 | 0 | na | 0 | 0 | 0 | * | 0 | 0 | 0 | 0 | 3 | na | 0 | na |

TABLE 2

**Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2021**

(Dollars in millions)

| Type of activity and fiscal year | All agencies | AID | ARC | DHS | DOC | DOD | DOE[a] | DOI | DOJ | DOL | DOT | ED | EPA | HHS[b] | HUD | NASA | NRC | NSF | SSA | USDA | Other[c] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1982 | 1 | 0 | na | na | 0 | * | 1 | 0 | na | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | na | 0 | na |
| 1983 | 3 | 0 | na | na | 0 | * | 2 | 0 | na | 0 | 0 | 0 | * | 0 | 0 | 0 | 0 | 0 | na | 0 | na |
| 1984 | 2 | 0 | na | na | 2 | * | 0 | 0 | na | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | na | 0 | na |
| 1985 | 5 | 0 | na | na | 0 | 0 | 0 | 0 | na | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | 5 | na | 0 | na |
| 1986 | 5 | 0 | na | na | 0 | 0 | 0 | 0 | na | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | na | 0 | na |
| 1987 | 14 | 0 | na | na | 0 | 0 | 0 | 0 | na | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 9 | na | 0 | na |
| 1988 | 13 | 0 | na | na | 3 | 0 | 0 | * | na | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | na | 0 | na |
| 1989 | 17 | 0 | na | na | 2 | 0 | 0 | 0 | na | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | na | 0 | na |
| 1990 | 19 | 0 | na | na | 5 | 0 | 0 | 0 | na | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | na | 0 | 0 |
| 1991 | 33 | 0 | na | na | 5 | * | 0 | 0 | na | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | na | 0 | 0 |
| 1992 | 39 | 0 | na | na | 7 | 0 | 1 | 0 | na | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | na | * | 0 |
| 1993 | 33 | 0 | na | na | 4 | 0 | 0 | 0 | na | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | na | 1 | 0 |
| 1994 | 49 | 0 | na | na | 3 | 22 | 0 | 0 | na | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | na | 1 | 0 |
| 1995 | 52 | 0 | na | na | 3 | 30 | * | 0 | na | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | na | 1 | 0 |
| 1996 | 49 | * | na | na | 11 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 1 | 0 |
| 1997 | 30 | 0 | na | na | 1 | 12 | * | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 1 | 0 |
| 1998 | 23 | 0 | 0 | na | 9 | * | 0 | 0 | 0 | 0 | * | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | * | 0 |
| 1999 | 47 | 0 | 0 | na | 13 | 18 | 0 | 0 | 0 | 0 | * | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 1 | 0 |
| 2000 | 60 | 0 | 0 | na | 22 | * | 0 | 0 | 0 | 0 | 22 | 0 | 0 | * | 0 | 0 | 0 | 15 | 0 | 1 | 0 |
| 2001 | 67 | 0 | 0 | na | 16 | 0 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 0 | 0 | * | 0 | 15 | 0 | 1 | 0 |
| 2002 | 110 | 0 | 0 | na | 28 | 15 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 24 | 0 | 0 | 0 | 16 | 0 | 1 | 0 |
| 2003 | 86 | 0 | 0 | 0 | 6 | 8 | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 26 | 0 | * | 0 | 16 | 0 | 1 | 0 |
| 2004 | 83 | 0 | 0 | 0 | 9 | 17 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 19 | 0 | 0 | 0 | 12 | 0 | 1 | 0 |
| 2005 | 40 | 0 | 0 | 0 | 0 | 9 | 0 | * | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 1 | 0 |
| 2006 | 16 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | * | 0 |
| 2007 | 13 | 0 | 0 | 0 | * | 10 | 0 | * | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | na |
| 2008 | 4 | 0 | 0 | 0 | 0 | * | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | na |
| 2009[d] | 5 | 0 | 0 | 0 | 0 | * | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | na |
| 2010[d] | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | na |
| 2011 | 4 | 0 | 0 | 0 | 0 | * | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | na |
| 2012 | 4 | 0 | 0 | 0 | 0 | * | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * | na |
| 2013 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | na |
| 2014 | 11 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 10 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | na |
| 2015 | 4 | 0 | 0 | 0 | 0 | 0 | * | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | na |
| 2016 | 4 | 0 | 0 | 0 | 0 | * | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | * | na |
| 2017 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | na |
| 2018 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | na |
| 2019 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | * | 0 | 0 | 0 | 0 | 0 | 0 | na |
| 2020 | 20 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | na | 0 | 0 | 0 | 0 | * | na |
| 2021 | 11 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | na | 0 | 0 | 0 | 0 | 0 | 0 |
| S&E fellowships, traineeships, and training grants | | | | | | | | | | | | | | | | | | | | | |
| 1966[e] | 366 | na | na | na | 0 | NA | 3 | 0 | na | na | na | na | na | 290 | na | 25 | na | 47 | na | 0 | na |
| 1967 | 447 | na | na | na | 0 | NA | 4 | 0 | na | na | na | na | na | 379 | na | 15 | na | 49 | na | 0 | na |
| 1968 | 441 | na | na | na | 0 | NA | 4 | 0 | na | 0 | 0 | na | na | 387 | 0 | 1 | na | 49 | na | 0 | 0 |
| 1969 | 436 | 0 | na | na | 0 | NA | 6 | 0 | na | 0 | NA | na | na | 376 | 0 | 1 | na | 54 | na | 0 | 0 |
| 1970 | 429 | 0 | na | na | 0 | NA | 5 | 0 | na | 0 | 0 | na | na | 370 | 0 | 2 | na | 53 | na | 0 | 0 |

TABLE 2

**Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2021**

(Dollars in millions)

| Type of activity and fiscal year | All agencies | AID | ARC | DHS | DOC | DOD | DOE[a] | DOI | DOJ | DOL | DOT | ED | EPA | HHS[b] | HUD | NASA | NRC | NSF | SSA | USDA | Other[c] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1971 | 421 | 0 | na | na | * | 0 | 3 | * | na | 1 | 3 | na | 10 | 361 | 0 | 1 | na | 42 | na | 0 | 0 |
| 1972 | 388 | 0 | na | na | * | 0 | 2 | 0 | na | 0 | 3 | na | 6 | 347 | 0 | 1 | na | 29 | na | 0 | 0 |
| 1973 | 287 | 0 | na | na | 1 | 0 | 2 | 0 | na | 0 | 1 | na | 9 | 257 | 0 | 1 | na | 16 | na | 0 | 0 |
| 1974 | 327 | 0 | na | na | * | 0 | 1 | 0 | na | 0 | 1 | na | 7 | 302 | 0 | 1 | na | 14 | na | 0 | 1 |
| 1975 | 201 | 0 | na | na | * | 0 | 1 | 0 | na | 0 | 3 | na | 5 | 182 | 0 | 1 | 0 | 10 | na | 0 | na |
| 1976 | 175 | 0 | na | na | 0 | 0 | * | 0 | na | 0 | 1 | na | 4 | 156 | 0 | 1 | * | 13 | na | 0 | na |
| 1977 | 185 | 0 | na | na | 0 | 0 | * | 0 | na | 0 | 1 | na | 1 | 166 | 0 | 1 | * | 15 | na | 0 | na |
| 1978 | 206 | 1 | na | na | 0 | 0 | 1 | 3 | na | 0 | 1 | na | 4 | 184 | 0 | 1 | * | 12 | na | 0 | na |
| 1979 | 205 | 0 | na | na | 0 | 0 | 2 | * | na | 0 | 0 | 0 | 5 | 182 | 0 | 2 | 0 | 14 | na | 0 | na |
| 1980 | 210 | 0 | na | na | 0 | 0 | 0 | 1 | na | 0 | 0 | 0 | 4 | 188 | 0 | 3 | 0 | 14 | na | 0 | na |
| 1981 | 205 | 0 | na | na | 0 | 0 | 0 | 1 | na | 0 | 0 | 0 | 2 | 184 | 0 | 4 | * | 15 | na | 0 | na |
| 1982 | 177 | 0 | na | na | 0 | 0 | * | 0 | na | 0 | * | 0 | 2 | 152 | 0 | 4 | 0 | 17 | na | 0 | na |
| 1983 | 190 | 0 | na | na | * | 1 | * | 0 | na | 0 | * | 0 | 3 | 164 | 0 | 5 | 0 | 16 | na | * | na |
| 1984 | 195 | 0 | na | na | * | 0 | 1 | 0 | na | 0 | * | 0 | 2 | 165 | 0 | 5 | 0 | 22 | na | * | na |
| 1985 | 253 | 0 | na | na | * | 1 | * | 0 | na | 0 | * | 0 | 2 | 211 | 0 | 6 | 0 | 26 | na | 7 | na |
| 1986 | 246 | 0 | na | na | 0 | 1 | 1 | 0 | na | 0 | * | 0 | 3 | 204 | 0 | 8 | 0 | 25 | na | 5 | na |
| 1987 | 291 | 0 | na | na | 1 | 2 | 1 | 0 | na | 0 | * | 12 | 2 | 233 | 0 | 9 | 0 | 28 | na | 5 | na |
| 1988 | 309 | 0 | na | na | 3 | 1 | 1 | 0 | na | * | 0 | 14 | 2 | 239 | 0 | 16 | 0 | 29 | na | 5 | na |
| 1989 | 340 | 0 | na | na | 1 | * | 1 | 0 | na | * | * | 23 | 8 | 256 | 0 | 13 | 0 | 33 | na | 5 | na |
| 1990 | 394 | 0 | na | na | 1 | * | 2 | * | na | 0 | * | 28 | 3 | 289 | 0 | 22 | 0 | 41 | na | 8 | 0 |
| 1991 | 469 | 0 | na | na | 4 | 1 | 7 | 0 | na | 0 | 1 | 54 | 8 | 313 | 0 | 36 | 0 | 35 | na | 11 | 0 |
| 1992 | 511 | 0 | na | na | 4 | 3 | 8 | 0 | na | * | 3 | 64 | 11 | 320 | 0 | 40 | 0 | 46 | na | 12 | 0 |
| 1993 | 526 | 0 | na | na | 2 | 2 | 14 | 0 | na | * | 6 | 58 | 8 | 335 | 0 | 42 | 0 | 48 | na | 11 | 0 |
| 1994 | 633 | 0 | na | na | 5 | 26 | 2 | * | na | * | 4 | 99 | 9 | 388 | 0 | 44 | 0 | 46 | na | 11 | 0 |
| 1995 | 674 | 3 | na | na | 4 | 4 | 3 | * | na | 0 | 5 | 96 | 16 | 418 | 0 | 57 | 0 | 51 | na | 16 | 0 |
| 1996 | 636 | * | na | na | 5 | 7 | 1 | 1 | * | 0 | 4 | 81 | 14 | 422 | 0 | 38 | 0 | 50 | 0 | 15 | 0 |
| 1997 | 677 | 0 | na | na | 6 | 9 | 0 | * | 0 | 0 | 1 | 81 | 15 | 450 | 0 | 42 | 0 | 51 | 0 | 21 | 0 |
| 1998 | 757 | 0 | 0 | na | 3 | 8 | * | * | 0 | 0 | 3 | 112 | 18 | 491 | 0 | 39 | 0 | 61 | 0 | 21 | 0 |
| 1999 | 844 | 0 | 0 | na | 11 | 14 | 0 | 0 | * | 1 | 3 | 114 | 16 | 559 | 0 | 38 | 0 | 70 | 0 | 17 | 0 |
| 2000 | 783 | 0 | 0 | na | 10 | 18 | 0 | 0 | * | 1 | 3 | 34 | 15 | 570 | 0 | 31 | 0 | 58 | 0 | 41 | 0 |
| 2001 | 843 | 0 | * | na | 11 | 13 | * | 0 | * | 1 | 3 | 33 | 20 | 650 | * | 37 | 0 | 20 | 0 | 54 | 0 |
| 2002 | 937 | 0 | * | na | 13 | 15 | 0 | 0 | * | 0 | 4 | 37 | 21 | 700 | 0 | 36 | 0 | 81 | 0 | 30 | 0 |
| 2003 | 950 | 0 | * | 0 | 9 | 25 | 0 | 0 | * | * | 4 | 62 | 12 | 734 | 0 | 40 | 0 | 35 | 0 | 29 | 0 |
| 2004 | 1,047 | 0 | 0 | 0 | 8 | 8 | 0 | 0 | * | * | 4 | 58 | 9 | 886 | 0 | 0 | 0 | 41 | 0 | 33 | 0 |
| 2005 | 1,044 | 0 | 0 | 0 | 12 | 6 | 0 | 0 | * | * | 3 | 70 | 13 | 857 | 0 | 0 | 0 | 40 | 0 | 43 | 0 |
| 2006 | 1,036 | 0 | 0 | 0 | 15 | 12 | 0 | 0 | 0 | 0 | 7 | 70 | 11 | 837 | 0 | 0 | 0 | 43 | * | 42 | 0 |
| 2007 | 1,101 | 0 | 0 | 0 | 9 | 3 | 0 | 0 | 0 | 0 | 5 | 93 | 6 | 811 | 0 | 0 | 0 | 131 | 1 | 42 | na |
| 2008 | 917 | 0 | 0 | 0 | 9 | 5 | 0 | 0 | 0 | 0 | 7 | 26 | 5 | 767 | 0 | 0 | 0 | 48 | 1 | 50 | na |
| 2009[d] | 968 | 0 | 0 | 0 | 7 | 7 | * | 0 | 0 | 0 | 7 | 37 | 5 | 815 | 0 | 0 | 0 | 51 | 1 | 38 | na |
| 2010[d] | 1,137 | 0 | 0 | * | 18 | 0 | 4 | 0 | 0 | 0 | 7 | 40 | 1 | 952 | 0 | 0 | 0 | 51 | * | 62 | na |
| 2011 | 1,016 | 0 | 0 | 0 | 16 | 3 | 4 | 0 | 0 | 0 | 22 | 35 | 5 | 779 | 0 | 0 | 0 | 50 | 1 | 102 | na |
| 2012 | 914 | 0 | 0 | 0 | 19 | * | 8 | 0 | 0 | 0 | 10 | 29 | 5 | 758 | 0 | 0 | 0 | 28 | 1 | 55 | na |
| 2013 | 894 | 0 | 0 | 0 | 20 | * | 7 | 0 | 0 | 0 | 7 | 17 | 6 | 736 | 0 | 0 | 0 | 26 | * | 74 | na |
| 2014 | 1,341 | 0 | 0 | 0 | 23 | 1 | 94 | 0 | 0 | 0 | 9 | 16 | 4 | 732 | 0 | 0 | 0 | 399 | * | 63 | na |
| 2015 | 1,347 | 0 | 0 | 9 | 20 | 0 | 51 | 0 | 0 | 0 | 7 | 15 | 4 | 763 | 0 | 0 | 0 | 408 | * | 69 | na |
| 2016 | 1,374 | 0 | 0 | * | 29 | 0 | 42 | 0 | 0 | 0 | 8 | 16 | 3 | 816 | 0 | 0 | 0 | 397 | 1 | 63 | na |
| 2017 | 1,371 | 0 | 0 | * | 5 | 0 | 48 | 0 | 0 | 0 | 7 | 16 | 3 | 835 | 0 | 0 | 0 | 391 | * | 66 | na |
| 2018 | 1,515 | 0 | 0 | * | 21 | 0 | 46 | 0 | 0 | 0 | 2 | 14 | 2 | 948 | 0 | 0 | 0 | 386 | 1 | 94 | na |
| 2019 | 1,803 | 0 | 0 | 0 | 17 | 0 | 32 | 0 | 8 | 0 | 8 | 8 | 2 | 1,083 | 0 | 0 | 0 | 547 | 1 | 98 | na |

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(Dollars in millions)

| Type of activity and fiscal year | All agencies | AID | ARC | DHS | DOC | DOD | DOE[a] | DOI | DOJ | DOL | DOT | ED | EPA | HHS[b] | HUD | NASA | NRC | NSF | SSA | USDA | Other[c] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2020 | 1,622 | 0 | 0 | 0 | 25 | * | 43 | 0 | 1 | 0 | 16 | 8 | 4 | 1,010 | na | 0 | 0 | 462 | 1 | 53 | na |
| 2021 | 1,751 | 0 | 0 | 0 | * | * | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 1,074 | na | * | 11 | 497 | 0 | 166 | 0 |
| Other general support for S&E[f] | | | | | | | | | | | | | | | | | | | | | |
| 1971 | 100 | 0 | na | na | * | 0 | 0 | 1 | na | 1 | 0 | na | 0 | 40 | 0 | 0 | na | 57 | na | 0 | 0 |
| 1972 | 83 | 5 | na | na | 1 | 0 | 0 | 1 | na | 0 | 0 | na | 0 | 41 | 0 | 0 | na | 35 | na | 0 | 0 |
| 1973 | 39 | 2 | na | na | 0 | 0 | 0 | 1 | na | 1 | 0 | na | 0 | 20 | 0 | 0 | na | 14 | na | 0 | 0 |
| 1974 | 87 | 1 | na | na | * | 0 | 0 | 2 | na | 1 | 0 | na | 0 | 64 | 0 | 0 | na | 18 | na | 0 | 0 |
| 1975 | 46 | 4 | na | na | 2 | 0 | 0 | 2 | na | 2 | 0 | na | 0 | 37 | 0 | 0 | 0 | 0 | na | 0 | na |
| 1976 | 74 | 3 | na | na | 4 | 0 | 0 | 2 | na | 1 | 0 | na | 0 | 42 | 0 | 0 | 0 | 22 | na | 0 | na |
| 1977 | 76 | 4 | na | na | 0 | 0 | 3 | 2 | na | 0 | 0 | na | 0 | 42 | 0 | 0 | 1 | 25 | na | 0 | na |
| 1978 | 74 | 0 | na | na | 0 | 0 | * | 5 | na | 0 | * | na | 0 | 45 | 0 | 0 | 0 | 24 | na | 0 | na |
| 1979 | 92 | 0 | na | na | 0 | 0 | * | 4 | na | 0 | 0 | 0 | 1 | 53 | 0 | 0 | 0 | 29 | na | 5 | na |
| 1980 | 92 | 0 | na | na | 0 | 0 | 6 | 2 | na | 0 | 0 | 0 | 0 | 60 | 0 | 0 | * | 23 | na | 0 | na |
| 1981 | 93 | 0 | na | na | 0 | 7 | 0 | 3 | na | 0 | 1 | 0 | 1 | 60 | 0 | 0 | 0 | 21 | na | 0 | na |
| 1982 | 80 | 0 | na | na | 0 | 5 | * | 7 | na | 0 | 0 | 0 | 2 | 61 | 2 | 0 | 0 | 4 | na | 0 | na |
| 1983 | 95 | 0 | na | na | 0 | 3 | 4 | 11 | na | 0 | 0 | * | 2 | 74 | * | 0 | 0 | 1 | na | 0 | na |
| 1984 | 113 | 0 | na | na | 20 | 4 | 1 | 0 | na | 0 | 0 | 0 | 3 | 84 | 0 | 0 | 0 | 2 | na | 0 | na |
| 1985 | 119 | 0 | na | na | * | 2 | * | * | na | 0 | 0 | 0 | 1 | 113 | 0 | 0 | 0 | 3 | na | 0 | na |
| 1986 | 111 | 0 | na | na | * | 2 | 0 | 0 | na | 0 | 0 | 0 | 0 | 106 | 0 | 0 | 0 | 3 | na | 0 | na |
| 1987 | 237 | 0 | na | na | 0 | 6 | 0 | 0 | na | 0 | 0 | 108 | 4 | 113 | 0 | 0 | 0 | 6 | na | 0 | na |
| 1988 | 172 | 0 | na | na | 0 | 2 | * | 2 | na | 0 | 0 | 55 | 0 | 109 | 0 | 0 | 0 | 3 | na | 0 | na |
| 1989 | 198 | 0 | na | na | 0 | 2 | 0 | 3 | na | 0 | 0 | 80 | 0 | 109 | 0 | 0 | 0 | 3 | na | 0 | na |
| 1990 | 144 | 0 | na | na | 1 | 0 | 1 | 3 | na | 0 | 0 | 30 | 3 | 102 | 0 | 0 | 0 | 4 | na | 0 | 0 |
| 1991 | 193 | 0 | na | na | 29 | 0 | * | 13 | na | 0 | 0 | 32 | 3 | 109 | 0 | 0 | 0 | 6 | na | 0 | 0 |
| 1992 | 160 | 0 | na | na | 28 | 0 | 0 | 12 | na | 0 | 2 | 37 | 4 | 69 | 0 | 0 | 0 | 8 | na | 1 | 0 |
| 1993 | 67 | 0 | na | na | 15 | * | 0 | 8 | na | 0 | 1 | 4 | 2 | 27 | 0 | 0 | 0 | 10 | na | 1 | 0 |
| 1994 | 137 | 0 | na | na | 43 | 3 | 6 | * | na | 0 | 0 | 7 | 1 | 64 | 0 | 0 | 0 | 12 | na | * | 0 |
| 1995 | 264 | 107 | na | na | 56 | 6 | 16 | 0 | na | 0 | 0 | 6 | 0 | 59 | 0 | 0 | 0 | 15 | na | 0 | 0 |
| 1996 | 219 | 57 | na | na | 64 | 1 | 6 | 0 | 0 | 0 | 0 | 6 | 0 | 71 | 0 | 0 | 0 | 13 | 0 | * | 0 |
| 1997 | 171 | 10 | na | na | 63 | 1 | 6 | 0 | 0 | 0 | 0 | 7 | 0 | 76 | 0 | 0 | 0 | 2 | 0 | 6 | 0 |
| 1998 | 238 | 22 | 0 | na | 53 | 1 | 9 | 0 | 0 | 0 | 32 | 5 | 0 | 108 | 0 | 0 | 0 | 1 | 0 | 7 | 0 |
| 1999 | 315 | 17 | 0 | na | 95 | * | 9 | 0 | 0 | 0 | 32 | 7 | 0 | 139 | 0 | 0 | 0 | 12 | 0 | 4 | 0 |
| 2000 | 314 | 16 | 0 | na | 82 | * | 0 | 0 | 0 | * | 34 | 0 | 0 | 171 | 0 | 0 | 0 | 2 | 0 | 9 | 0 |
| 2001 | 332 | 14 | 0 | na | 77 | 2 | 1 | 0 | 0 | 0 | 34 | 0 | 0 | 195 | 0 | 0 | 0 | 4 | 0 | 5 | 0 |
| 2002 | 432 | 14 | 0 | na | 78 | 4 | 0 | 0 | 0 | 0 | 34 | 0 | 0 | 289 | 0 | 0 | 0 | 8 | 0 | 3 | 0 |
| 2003 | 429 | 14 | 0 | 0 | 106 | 1 | 0 | 0 | 0 | * | 37 | 0 | 0 | 263 | 0 | 0 | 0 | 6 | 0 | 3 | 0 |
| 2004 | 421 | 14 | 0 | 0 | 30 | 1 | 0 | 0 | 0 | * | 42 | 0 | 0 | 326 | 0 | 0 | 0 | 8 | 0 | * | 0 |
| 2005 | 389 | 14 | 0 | 0 | 33 | 1 | 0 | 1 | 0 | 0 | 43 | 0 | 0 | 289 | 0 | 0 | 0 | 7 | 0 | 1 | 0 |
| 2006 | 323 | 14 | 0 | 0 | 46 | 1 | 0 | 1 | 0 | 0 | 60 | 0 | 0 | 191 | 0 | 0 | 0 | 9 | 1 | * | 0 |
| 2007 | 222 | 0 | 0 | 0 | 29 | 1 | 0 | 1 | 0 | 0 | * | 0 | 0 | 166 | 0 | 0 | 0 | 23 | 1 | 0 | na |
| 2008 | 304 | 0 | 0 | 0 | 5 | 154 | 0 | * | 0 | 0 | 0 | 0 | 0 | 116 | 0 | 0 | 0 | 27 | 1 | 0 | na |
| 2009[d] | 245 | 0 | 0 | * | 0 | 67 | 0 | * | 0 | 0 | 0 | 0 | 0 | 146 | 0 | 0 | 0 | 31 | 1 | 0 | na |
| 2010[d] | 361 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 311 | 0 | 0 | 0 | 34 | 3 | 0 | na |
| 2011 | 208 | 0 | 0 | 0 | 0 | 64 | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 86 | 0 | 0 | 0 | 32 | 1 | * | na |
| 2012 | 142 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 75 | 0 | 0 | 0 | 31 | 1 | 0 | na |
| 2013 | 132 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 81 | 0 | 0 | 0 | 33 | 1 | * | na |
| 2014 | 138 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 84 | 0 | 0 | 0 | 34 | 1 | 2 | na |

TABLE 2

**Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2021**

(Dollars in millions)

| Type of activity and fiscal year | All agencies | AID | ARC | DHS | DOC | DOD | DOE[a] | DOI | DOJ | DOL | DOT | ED | EPA | HHS[b] | HUD | NASA | NRC | NSF | SSA | USDA | Other[c] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2015 | 138 | 0 | 0 | 1 | 0 | 11 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 83 | 0 | 0 | 0 | 36 | 2 | 1 | na |
| 2016 | 128 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | * | 0 | 0 | 75 | 0 | 0 | 0 | 35 | 1 | 2 | na |
| 2017 | 96 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 68 | 0 | 0 | 0 | 1 | 1 | 5 | na |
| 2018 | 121 | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 89 | 0 | 0 | 0 | * | 0 | 6 | na |
| 2019 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 89 | 0 | 0 | 0 | 0 | 0 | 8 | na |
| 2020 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 89 | na | 0 | 0 | 0 | 0 | 6 | na |
| 2021 | 1,538 | 0 | 0 | 0 | 57 | 725 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 93 | na | 0 | 0 | 73 | 0 | 581 | 0 |
| Other S&E activities[f,g] | | | | | | | | | | | | | | | | | | | | | |
| 1963 | 393 | na | na | na | * | 0 | 5 | * | na | na | na | na | na | 209 | na | 14 | na | 101 | na | 63 | na |
| 1964 | 452 | na | na | na | 1 | 0 | 5 | * | na | na | na | na | na | 245 | na | 20 | na | 114 | na | 67 | na |
| 1965 | 595 | na | na | na | 1 | 0 | 6 | * | na | na | na | na | na | 360 | na | 25 | na | 130 | na | 73 | na |
| 1966 | 431 | na | na | na | 1 | 0 | 3 | * | na | na | na | na | na | 263 | na | 2 | na | 85 | na | 76 | na |
| 1967 | 464 | na | na | na | 1 | 0 | 3 | * | na | na | na | na | na | 257 | na | 2 | na | 123 | na | 79 | na |
| 1968 | 414 | na | na | na | 1 | 0 | 2 | * | na | 0 | * | na | na | 186 | 1 | 3 | na | 141 | na | 80 | 0 |
| 1969 | 396 | 0 | na | na | * | * | 1 | 1 | na | 0 | NA | na | na | 198 | * | 4 | na | 100 | na | 91 | 0 |
| 1970 | 267 | 0 | na | na | 1 | * | 1 | 1 | na | 0 | 0 | na | na | 32 | 0 | 2 | na | 117 | na | 114 | 0 |
| 1971 | 212 | 2 | na | na | 1 | 0 | * | 0 | na | * | 0 | na | 0 | 16 | 0 | 4 | na | 50 | na | 139 | 0 |
| 1972 | 212 | 0 | na | na | 1 | 0 | * | 0 | na | 0 | 0 | na | 0 | 9 | 0 | 5 | na | 47 | na | 150 | 0 |
| 1973 | 211 | 0 | na | na | 3 | 0 | 1 | 0 | na | * | 0 | na | 0 | 8 | 0 | 5 | na | 31 | na | 163 | 0 |
| 1974 | 206 | 0 | na | na | 2 | 0 | * | 0 | na | 0 | 0 | na | 0 | 6 | 0 | 6 | na | 28 | na | 164 | 0 |
| 1975 | 262 | 0 | na | na | 2 | 0 | * | 0 | na | * | 0 | na | 0 | 15 | 0 | 6 | * | 59 | na | 180 | na |
| 1976 | 252 | 0 | na | na | 4 | 0 | * | * | na | 0 | 0 | na | 0 | 17 | 0 | 11 | 0 | 16 | na | 204 | na |
| 1977 | 248 | 0 | na | na | * | 0 | * | * | na | 0 | 0 | na | 0 | 15 | 0 | 6 | 0 | 25 | na | 201 | na |
| 1978 | 255 | 3 | na | na | 1 | 0 | * | 0 | na | 0 | * | na | 0 | 4 | 0 | 4 | 0 | 26 | na | 216 | na |
| 1979 | 263 | 0 | na | na | 1 | 0 | 3 | 0 | na | 0 | 0 | 0 | * | 7 | 0 | 5 | * | 22 | na | 224 | na |
| 1980 | 287 | 0 | na | na | 1 | 0 | 3 | 0 | na | 0 | 0 | 0 | 0 | 3 | 0 | 7 | * | 40 | na | 232 | na |
| 1981 | 321 | 0 | na | na | 1 | 17 | 8 | * | na | 0 | * | 0 | * | 5 | 0 | 6 | * | 34 | na | 250 | na |
| 1982 | 336 | 0 | na | na | 1 | 38 | 3 | 0 | na | 0 | 0 | 0 | * | 4 | * | 5 | 0 | 12 | na | 273 | na |
| 1983 | 332 | 0 | na | na | 1 | 23 | * | * | na | 0 | 0 | 0 | * | 3 | * | 8 | 0 | 15 | na | 282 | na |
| 1984 | 500 | 0 | na | na | 8 | 123 | 1 | 0 | na | * | 0 | 0 | * | 3 | 0 | 7 | 0 | 33 | na | 325 | na |
| 1985 | 521 | 0 | na | na | 1 | 150 | * | 0 | na | * | * | 0 | 0 | 7 | 0 | 8 | * | 19 | na | 336 | na |
| 1986 | 506 | 0 | na | na | 1 | 149 | * | 0 | na | 0 | * | 0 | 0 | 9 | 0 | 8 | 0 | 23 | na | 317 | na |
| 1987 | 555 | 0 | na | na | 1 | 171 | 0 | 0 | na | 0 | 2 | 21 | 1 | 10 | 0 | 7 | 0 | 33 | na | 309 | na |
| 1988 | 720 | 0 | na | na | * | 179 | 0 | 0 | na | 0 | 3 | 116 | 0 | 10 | 0 | 8 | 0 | 55 | na | 348 | na |
| 1989 | 760 | 0 | na | na | 4 | 206 | * | 0 | na | 0 | 3 | 97 | 0 | 17 | 0 | 12 | 0 | 72 | na | 350 | na |
| 1990 | 756 | 0 | na | na | 7 | 145 | 0 | 0 | na | 0 | 3 | 130 | 0 | 19 | 0 | 17 | 0 | 73 | na | 360 | 0 |
| 1991 | 957 | 0 | na | na | 22 | 200 | 0 | * | na | 0 | 3 | 172 | * | 17 | 0 | 22 | 0 | 132 | na | 389 | 0 |
| 1992 | 992 | 0 | na | na | 23 | 193 | 0 | 0 | na | 0 | 8 | 197 | * | 19 | 0 | 57 | 0 | 87 | na | 408 | 0 |
| 1993 | 924 | 0 | na | na | 30 | 245 | 0 | 0 | na | * | 9 | 0 | * | 40 | 0 | 76 | 0 | 111 | na | 413 | 0 |
| 1994 | 934 | 0 | na | na | 27 | 238 | 0 | * | na | * | 1 | 15 | 0 | 20 | 0 | 42 | 0 | 171 | na | 420 | 0 |
| 1995 | 949 | 32 | na | na | 16 | 196 | 0 | * | na | 0 | 2 | 18 | 0 | 35 | 0 | 49 | 0 | 177 | na | 423 | 0 |
| 1996 | 952 | 30 | na | na | 16 | 155 | * | 1 | 0 | 0 | 1 | 20 | 0 | 39 | 0 | 49 | 0 | 227 | 0 | 414 | 0 |
| 1997 | 923 | 4 | na | na | 31 | 159 | * | * | 0 | 0 | 1 | 20 | 0 | 31 | 0 | 53 | 0 | 216 | 0 | 408 | 0 |
| 1998 | 1,042 | 2 | 0 | na | 37 | 153 | * | 0 | 0 | 0 | 2 | 28 | 0 | 36 | 0 | 94 | 0 | 280 | 0 | 410 | 0 |
| 1999 | 1,110 | 2 | 0 | na | 49 | 82 | * | 0 | 0 | 0 | * | 96 | 0 | 41 | 0 | 91 | 0 | 324 | 0 | 424 | 0 |
| 2000 | 1,191 | 2 | 0 | na | 53 | 157 | 0 | 0 | 0 | 0 | 0 | 82 | 0 | 45 | 0 | 113 | 0 | 273 | 0 | 467 | 0 |
| 2001 | 1,461 | 2 | 0 | na | 98 | 190 | 0 | 0 | 0 | 0 | 0 | 83 | 0 | 21 | 0 | 116 | 0 | 473 | 0 | 477 | 0 |
| 2002 | 1,496 | 1 | 0 | na | 62 | 225 | 0 | 0 | 0 | 0 | * | 78 | 0 | 28 | 0 | 123 | 0 | 530 | 0 | 450 | 0 |

TABLE 2

**Federal obligations for science and engineering to universities and colleges, by type of activity and agency: FYs 1963–2021**

(Dollars in millions)

| Type of activity and fiscal year | All agencies | AID | ARC | DHS | DOC | DOD | DOE[a] | DOI | DOJ | DOL | DOT | ED | EPA | HHS[b] | HUD | NASA | NRC | NSF | SSA | USDA | Other[c] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2003 | 1,664 | * | 0 | 0 | 79 | 270 | 0 | 0 | 0 | * | 0 | 74 | 0 | 28 | 0 | 117 | 0 | 632 | 5 | 459 | 0 |
| 2004 | 1,593 | * | 0 | 0 | 56 | 298 | 0 | 0 | 0 | 0 | 0 | 65 | 0 | 29 | 0 | 0 | 0 | 687 | 2 | 454 | 0 |
| 2005 | 1,486 | * | 0 | 0 | 88 | 215 | 0 | * | 0 | 0 | 25 | 83 | 0 | 45 | 0 | 0 | 0 | 566 | 1 | 462 | 0 |
| 2006 | 1,637 | * | 0 | 0 | 154 | 111 | 0 | * | 0 | * | 49 | 53 | 0 | 147 | 0 | 0 | 0 | 642 | 0 | 480 | 0 |
| 2007 | 1,614 | 0 | 0 | 0 | 44 | 161 | 0 | * | 0 | * | 47 | 50 | 0 | 266 | 0 | 0 | 0 | 569 | 0 | 477 | na |
| 2008 | 1,474 | 0 | 0 | 0 | 106 | 155 | 0 | * | 0 | 0 | 68 | 12 | 0 | 11 | 0 | 0 | 0 | 638 | 0 | 484 | na |
| 2009[d] | 1,769 | 0 | 0 | 0 | 190 | 149 | 0 | * | 0 | 0 | 65 | 18 | 0 | 4 | 0 | 0 | 0 | 799 | 0 | 545 | na |
| 2010[d] | 1,609 | 0 | 0 | 0 | 221 | 102 | 0 | 0 | 0 | 0 | 66 | 20 | 0 | 10 | 0 | 0 | 0 | 627 | 0 | 565 | na |
| 2011 | 2,001 | 0 | 0 | 0 | 57 | 756 | 0 | 0 | 0 | 0 | 56 | 15 | 0 | 3 | 0 | 0 | 0 | 538 | 0 | 574 | na |
| 2012 | 2,019 | 0 | 0 | 0 | 63 | 863 | 0 | 0 | 0 | 0 | 66 | 14 | 0 | 6 | 0 | 0 | 0 | 499 | 0 | 507 | na |
| 2013 | 1,948 | 0 | 0 | 0 | 64 | 864 | 0 | 0 | 0 | 0 | 57 | 11 | 0 | 5 | 0 | 0 | 0 | 475 | 2 | 471 | na |
| 2014 | 1,616 | 0 | 0 | 0 | 70 | 919 | 0 | 0 | 0 | 0 | 66 | 10 | 0 | 5 | 0 | 0 | 0 | 30 | 0 | 516 | na |
| 2015 | 1,597 | 0 | 0 | 0 | 82 | 813 | * | 1 | 0 | 0 | 58 | 1 | 0 | 6 | 0 | 0 | 0 | 50 | * | 586 | na |
| 2016 | 1,239 | 0 | 0 | 0 | 74 | 552 | 0 | * | 0 | 0 | 53 | 1 | 0 | 5 | 0 | 0 | 0 | 55 | * | 499 | na |
| 2017 | 732 | 0 | 0 | 0 | 78 | 505 | 0 | 0 | 0 | 0 | 53 | 9 | 0 | 2 | 0 | 0 | 0 | 74 | * | 12 | na |
| 2018 | 844 | 0 | 0 | 0 | 86 | 616 | 0 | 0 | 0 | 0 | 7 | 11 | 0 | 38 | 0 | 0 | 0 | 77 | 0 | 9 | na |
| 2019 | 461 | 0 | 0 | 0 | 59 | 0 | 0 | 0 | 0 | 0 | 73 | 11 | 0 | 8 | 0 | 0 | 0 | 87 | 0 | 223 | na |
| 2020 | 415 | 0 | 0 | 0 | 67 | 7 | 0 | 0 | 0 | 0 | 138 | 13 | 0 | 2 | na | 0 | 0 | 88 | 0 | 101 | na |
| 2021 | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na | na |

* = amount greater than $0 but less than $500,000. na = not applicable; agency did not exist as such or data were not collected at this level of detail. NA = not available; data were not provided by agency.

AID = Agency for International Development; ARC = Appalachian Regional Commission; DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOJ = Department of Justice; DOL = Department of Labor; DOT = Department of Transportation; ED = Department of Education; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; HUD = Department of Housing and Urban Development; NASA = National Aeronautics and Space Administration; NRC = Nuclear Regulatory Commission; NSF = National Science Foundation; S&E = science and engineering; SSA = Social Security Administration; USDA = Department of Agriculture.

[a] Data shown for FYs 1963–74 and FYs 1975–77 represent obligations of the Atomic Energy Commission and the Energy Research Development Commission, respectively.

[b] Data shown for FYs 1963–79 represent obligations of the Department of Health, Education, and Welfare. Also, HHS's Centers for Disease Control and Prevention data were excluded for FYs 2009 and 2010 due to their poor quality.

[c] Includes obligations from the following agencies: the Consumer Product Safety Commission, the Department of the Treasury, the General Services Administration, and the Office of Economic Opportunity.

[d] Includes American Recovery and Reinvestment Act of 2009 obligations.

[e] Data collected before this year are not separately identified but are included under Other S&E activities.

[f] Category was General support for S&E through 2020; as of 2021, the category was changed to Other general support for S&E and includes the obligations previously reported under Other S&E activities.

[g] Other S&E activities include data collected on Fellowships, traineeships, and training grants before FY 1966, Facilities for instruction in S&E before FY 1971, and General support for S&E before FY 1971.

**Note(s):**
Detail may not add to total because of rounding. Some trend shifts are related to institutional reclassification. For example, beginning in FY 1978, two laboratories that were formerly considered academically administered federally funded research and development centers became part of their respective institutions: the Applied Physics Laboratory (Johns Hopkins University) and the Applied Research Laboratory (Pennsylvania State University). Data for these laboratories are included in academic figures beginning in FY 1978. Similarly, Draper Laboratories separated from the Massachusetts Institute of Technology as of FY 1974 to become an independent nonprofit institution; data for this laboratory are included in the Massachusetts Institute of Technology's figures prior to FY 1974.

**Source(s):**
National Center for Science and Engineering Statistics, Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions; National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22, Federal Science and Engineering Support Module.