TABLE 12. Domestic R\&D paid for by the company and others and performed by the company, by type of cost, industry, and company size: 2014 (Millions of U.S. dollars)

| Industry and company size | NAICS code | Total | Salaries, wages, and fringe benefits | Stock-based compensation | Temporary staffing | Expensed equipment | Materials and supplies | Lease and rental payments | Depreciation | Other purchased services (except R\&D) | Other |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All industries | 21-23, 31-33, 42-81 | 340,728 | 195,532 | 16,619 | 14,211 | 5,815 | 27,328 | 6,048 | 12,106 | 7,891 | 55,178 |
| Manufacturing industries | 31-33 | 232,815 | 126,384 | 8,149 | 8,312 | 4,130 | 23,040 | 3,726 | 9,239 | 6,018 | 43,817 |
| Food | 311 | 5,292 i | 2,705 i | 80 i | 156 i | 724 i | 307 i | 131 i | 316 i | 208 i | 667 |
| Beverages and tobacco products | 312 | 920 | 517 | 13 | 31 | 7 | 65 | 7 | 47 | 4 | 228 |
| Textiles, apparel, and leather products | 313-16 | 631 | 413 | 5 | 22 i | 2 | 79 | 10 i | 18 | 20 | 62 |
| Wood products | 321 | 362 i | 246 i | * | 11 i | 3 i | 78 i | 4 i | 4 i | 3 i | 14 i |
| Paper | 322 | 723 | 490 i | * i | 25 i | 2 i | 89 i | 5 i | 19 i | 13 i | 78 i |
| Printing and related support activities | 323 | 234 | 143 | 3 i | 5 i | 1 i | 48 | 4 i | 8 i | 1 i | 22 |
| Petroleum and coal products | 324 | 234 | 153 | 2 | 14 | 1 | 20 | 3 | 7 | 14 | 20 |
| Chemicals | 325 | 66,301 | 31,859 | 2,601 | 3,009 | 303 | 5,316 | 1,356 | 2,790 | 1,677 | 17,389 |
| Basic chemicals | 3251 | 2,849 | 1,702 | 27 | 65 | 38 | 258 | 74 | 176 | 82 | 426 |
| Resins, synthetic rubber, and artificial synthetic fibers and filaments | 3252 | 1,152 | 717 | 10 | 45 | 16 | 89 | 29 | 58 | 14 | 175 |
| Pesticides, fertilizers, and other agricultural chemicals | 3253 | 1,790 i | 764 i | D | 116 | 4 i | 99 i | 38 i | 107 i | 30 i | D |
| Pharmaceuticals and medicines | 3254 | 56,612 | 26,165 | 2,542 | 2,664 | 231 | 4,641 | 1,180 | 2,295 | 1,513 | 15,382 |
| Soaps, cleaning compounds, and toilet preparations | 3256 | 2,547 | 1,618 | 13 | 91 | 7 | 159 | 23 | 102 | 26 | 509 |
| Paints, coatings, adhesives, and other chemicals | 3255, 3259 | 1,350 i | 893 | D | 27 | 8 | 70 | 13 | 52 | 11 | D |
| Plastics and rubber products | 326 | 3,574 | 2,030 | 54 | 100 | 47 | 542 | 41 | 147 | 119 | 496 |
| Nonmetallic mineral products | 327 | 1,445 i | 779 i | 2 i | 44 i | 12 i | 232 i | 16 i | 64 i | 43 i | 253 i |
| Primary metals | 331 | 677 | 346 | 7 | 8 | 1 | 77 | 2 | 26 | 5 | 205 |
| Fabricated metal products | 332 | 2,131 i | 1,488 i | 37 i | 34 i | 38 | 299 i | 17 i | 51 i | 37 i | 130 |
| Machinery | 333 | 12,128 | 7,101 | 108 i | 668 | 136 | 1,750 | 130 | 540 | 138 | 1,557 |
| Agricultural implements | 33311 | 1,578 | 832 | * i | 98 | 8 | 331 | 10 | 58 | 1 | 241 |
| Semiconductor machinery | 333295 | 2,941 | 1,393 | 63 i | 156 | 13 | 420 | 23 | 200 | 21 | 653 |
| Engine, turbine, and power transmission equipment | 3336 | 2,347 | 1,471 | 2 | 252 | 10 | 248 i | 15 | 99 | 15 | 236 i |
| Other machinery | other 333 | 5,261 | 3,405 | 43 i | 163 i | 105 i | 751 | 81 i | 183 i | 101 i | 427 |
| Computer and electronic products | 334 | 73,891 | 43,347 | 4,911 | 2,038 | 1,596 | 5,447 | 1,407 | 3,787 | 1,681 | 9,677 |
| Communications equipment | 3342 | 18,342 | 9,086 | 2,069 | 362 i | 613 | 1,052 | 687 | 941 | 869 | 2,662 |
| Semiconductor and other electronic components | 3344 | 32,142 | 19,658 i | 2,362 i | 669 i | 609 i | 2,068 i | 475 | 2,014 | 245 | 4,042 |
| Navigational, measuring, electromedical, and control instruments | 3345 | 15,963 | 9,777 | 200 i | 819 | 223 | 1,781 | 198 | 443 | 254 | 2,269 |
| Electromedical, electrotherapeutic, and irradiation apparatus | 334510, 334517 | 3,917 | 2,050 | 124 i | 298 | 116 | 468 | 122 | 181 | 50 | 508 i |
| Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments | 334511 | 7,861 | 4,950 | 24 | 349 | 37 | 950 | 33 | 141 | 127 | 1,250 |

TABLE 12. Domestic R\&D paid for by the company and others and performed by the company, by type of cost, industry, and company size: 2014


TABLE 12. Domestic R\&D paid for by the company and others and performed by the company, by type of cost, industry, and company size: 2014

| Industry and company size | NAICS code | Total | Salaries, wages, and fringe benefits | Stock-based compensation | Temporary staffing | Expensed equipment | Materials and supplies | Lease and rental payments | Depreciation | Other purchased services (except R\&D) | Other |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Computer systems design and related |  |  |  |  |  |  |  |  |  |  |  |
| Scientific R\&D services | 5417 | 12,807 | 7,739 | 114 | 601 | 73 | 1,139 | 291 | 364 | 506 | 1,979 |
| Biotechnology R\&D | 541711 | 3,459 | 2,060 | D | 127 | 10 | 335 | 84 | 102 | 354 | D |
| Physical, engineering, and life sciences (except biotechnology) R\&D | 541712 | 8,670 | 5,202 | 67 | 461 | 58 | 799 | 191 | 254 | 152 | 1,486 |
| Social sciences and humanities R\&D | 541720 | 678 | 478 | D | 13 | 5 | 4 | 16 | 8 | * i | D |
| Other professional, scientific, and technical services | other 54 | 3,775 | 2,967 | 48 i | 212 i | 16 | 76 | 65 | 103 | 16 i | 273 i |
| Health care services | 621-23 | 501 i | 314 i | 24 i | 22 i | 9 i | 57 i | 8 i | 19 i | 3 i | 46 |
| Other nonmanufacturing | 23, 44-45 (excluding $\begin{array}{r} 454111-12), 55-56, \\ 624,71-72,81 \end{array}$ | 861 i | 653 i | D | 30 i | 12 i | 56 i | 5 | 12 | 6 i | D |
| All companies (number of domestic employees) | - | 340,728 | 195,532 | 16,619 | 14,211 | 5,815 | 27,328 | 6,048 | 12,106 | 7,891 | 55,178 |
| Small companies ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |
| 5-499 | - | 54,773 | 34,258 | 1,741 | 2,491 i | 1,164 i | 4,799 | 1,363 | 1,558 | 990 i | 6,409 |
| 5-99 | - | 29,078 i | 18,018 i | 837 i | 1,408 i | 835 i | 2,664 i | 761 i | 796 i | 562 i | 3,198 i |
| 5-49 | - | 18,900 i | 11,707 i | 541 i | 937 i | 644 | 1,777 i | 503 i | 519 i | 347 i | 1,924 i |
| 5-9 | - | 3,295 i | 1,775 i | 73 i | 170 i | 383 | 223 i | 95 i | 142 i | 68 i | 365 i |
| 10-24 | - | 7,177 i | 4,456 i | 213 i | 360 i | 155 i | 803 i | 186 i | 168 i | 132 i | 704 i |
| 25-49 | - | 8,428 i | 5,476 i | 256 i | 407 i | 106 i | 751 i | 221 i | 209 i | 147 i | 854 |
| 50-99 | - | 10,178 i | 6,310 i | 296 | 471 | 191 i | 887 | 258 | 277 i | 215 i | 1,274 |
| 100-249 | - | 13,492 | 8,683 | 395 | 591 | 172 i | 1,152 | 341 | 404 | 241 | 1,514 |
| 250-499 | - | 12,203 | 7,557 | 508 | 493 | 157 | 984 | 262 | 359 | 187 | 1,697 |
| Medium and large companies |  |  |  |  |  |  |  |  |  |  |  |
| 500-999 | - | 13,262 | 8,023 | 661 | 519 | 204 | 1,050 | 252 | 518 | 201 | 1,834 |
| 1,000-4,999 | - | 57,551 | 33,212 | 3,382 | 2,099 | 907 i | 3,811 | 1,173 | 2,277 | 1,184 | 9,507 |
| 5,000-9,999 | - | 38,202 | 21,784 | 2,666 | 1,436 | 480 | 2,471 | 538 | 1,609 | 1,061 | 6,157 |
| 10,000-24,999 | - | 54,445 | 32,191 | 1,408 i | 2,261 | 439 | 5,583 | 718 | 1,950 | 1,069 | 8,827 |
| 25,000 or more | - | 122,495 | 66,063 | 6,762 | 5,405 | 2,622 | 9,614 | 2,004 | 4,194 | 3,385 | 22,444 |

* = amount < $\$ 500,000 ; \mathrm{D}=$ data withheld to avoid disclosing operations of individual companies; $\mathrm{i}=>50 \%$ of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS $=2012$ North American Industry Classification System.
${ }^{\text {a }}$ Upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R\&D and Innovation Survey does not include companies with fewer than five domestic employees.
NOTES: Detail may not add to total because of rounding. Industry classification is 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. Statistics are representative of companies located in the United States that performed or funded R\&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R\&D and Innovation Survey, 2014.

