

TABLE 2

Total R&D cost, by selected industry and employment size, for companies with 1–9 employees: 2020

(Number of companies and thousands of U.S. dollars)

| Industry | NAICS code | All companies | | 1–4 employees | | 5–9 employees | |
|--|---------------------------------|--------------------|-----------|--------------------|-----------|--------------------|-----------|
| | | Companies (number) | Amount | Companies (number) | Amount | Companies (number) | Amount |
| All selected industries | 31–33, 42, 51, 5413, 5415, 5417 | 15,868 | 7,522,839 | 10,225 | 3,623,592 | 5,644 | 3,899,247 |
| Manufacturing industries | 31–33 | 1,974 | 822,687 | 1,004 | 359,533 | 969 | 463,154 |
| Food, beverage, and tobacco products | 311–12 | 62 | 20,378 | r 52 | 16,061 | r 11 | 4,317 |
| Textile, apparel, and leather products | 313–16 | 3 | r 472 | r 3 | r 472 | r 0 | 0 |
| Wood products | 321 | 0 | 0 | 0 | 0 | 0 | 0 |
| Paper | 322 | 0 | 0 | 0 | 0 | 0 | 0 |
| Printing and related support activities | 323 | 0 | 0 | 0 | 0 | 0 | 0 |
| Petroleum and coal products | 324 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chemicals | 325 | 590 | 201,214 | 260 | 96,869 | 332 | 104,345 |
| Pharmaceuticals and medicines | 3254 | 153 | 104,539 | 97 | 64,689 | 56 | 39,850 |
| Chemicals, excluding pharmaceuticals | other 325 | 438 | 96,675 | 162 | 32,181 | 275 | 64,495 |
| Plastics and rubber products | 326 | 69 | 23,004 | 31 | 18,051 | 39 | r 4,953 |
| Nonmetallic mineral products | 327 | 0 | 133 | 0 | 133 | 0 | 0 |
| Primary metals | 331 | 13 | 9,299 | r 13 | 9,299 | r 0 | 0 |
| Fabricated metal products | 332 | 56 | r 59,474 | r 8 | 387 | 47 | r 59,087 |
| Machinery | 333 | 203 | 94,664 | 101 | 37,612 | r 101 | 57,052 |
| Computer and electronic products | 334 | 674 | 237,090 | 373 | 101,714 | 300 | 135,376 |
| Semiconductor and other electronic components | 3344 | 150 | 40,558 | 87 | 24,002 | 64 | 16,556 |
| Navigational, measuring, electromedical, and control instruments | 3345 | 432 | 175,504 | 243 | 67,481 | 188 | 108,022 |
| Other computer and electronic products | other 334 | 92 | 21,029 | 43 | 10,231 | 48 | 10,798 |
| Electrical equipment, appliances, and components | 335 | 80 | 32,026 | r 56 | 27,642 | r 25 | r 4,383 |
| Transportation equipment | 336 | 77 | 40,780 | 35 | 12,035 | 41 | 28,745 |
| Aerospace products and parts | 3364 | 48 | 21,446 | 26 | 11,007 | 21 | 10,439 |
| Other transportation equipment | other 336 | 30 | 19,333 | r 10 | 1,028 | 20 | 18,305 |
| Furniture and related products | 337 | 2 | 124 | 0 | 0 | 2 | 124 |
| Miscellaneous manufacturing | 339 | 144 | 104,028 | 74 | 39,257 | 70 | 64,770 |
| Selected nonmanufacturing industries | 42, 51, 5413, 5415, 5417 | 13,895 | 6,700,152 | 9,222 | 3,264,059 | 4,674 | 3,436,093 |
| Wholesale trade | 42 | 891 | 517,963 | 533 | 188,633 | 357 | 329,331 |
| Information | 51 | 2,599 | 829,283 | 1,631 | 373,836 | 969 | 455,448 |
| Software publishers | 5112 | 1,768 | 571,286 | 1,148 | 242,501 | 619 | 328,785 |
| Information, excluding software publishers | 51 less 5112 | 832 | 257,998 | 484 | 131,335 | 349 | 126,663 |
| Architectural, engineering, and related services | 5413 | 1,681 | 628,231 | 1,153 | 286,122 | 527 | 342,109 |
| Computer systems design and related services | 5415 | 5,285 | 1,473,927 | 3,769 | 879,174 | 1,515 | 594,753 |
| Scientific research and development services | 5417 | 3,439 | 3,250,748 | 2,135 | 1,536,295 | 1,305 | 1,714,453 |

TABLE 2

Total R&D cost, by selected industry and employment size, for companies with 1–9 employees: 2020

(Number of companies and thousands of U.S. dollars)

| Industry | NAICS code | All companies | | 1–4 employees | | 5–9 employees | |
|--|------------|--------------------|-----------|--------------------|---------|--------------------|---------|
| | | Companies (number) | Amount | Companies (number) | Amount | Companies (number) | Amount |
| Research and development in nanotechnology | 541713 | 344 | 196,107 | 204 | 91,949 | 139 | 104,158 |
| Research and development in biotechnology (except nanobiotechnology) | 541714 | 1,142 | 1,548,115 | 725 | 757,706 | 416 | 790,409 |
| Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology) | 541715 | 1,903 | 1,479,130 | 1,169 | 677,617 | 734 | 801,514 |
| Social sciences and humanities research and development | 541720 | 51 | 27,396 | 36 | 9,023 | 15 | 18,373 |

r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding or unavailable NAICS detail for select records beyond the 4-digit industry classification. Industry classification is based on dominant establishment payroll. Statistics are representative of companies located in the United States that performed or funded R&D.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, 2021 Annual Business Survey: Data Year 2020.