

Table 6**Domestic R&D employees, by selected industry, by sex and by R&D work activity, for companies with 1–9 employees: 2021**

(Number)

| Industry | NAICS code | All companies | Male | Female | Researchers (including R&D scientists, engineers, and their managers) | R&D technicians and equivalent staff | R&D support staff (clerical and other) | Researchers with PhD (excluding MD, JD, and EdD) |
|--|---------------------------------|---------------|--------|--------|---|--------------------------------------|--|--|
| All selected industries | 31–33, 42, 51, 5413, 5415, 5417 | 38,962 | 30,340 | 8,622 | 28,417 | 7,478 | 3,066 | 7,358 |
| Manufacturing industries | 31–33 | 4,686 | 3,735 | 951 | 3,432 | 882 | 372 | 945 |
| Food, beverage, and tobacco products | 311–12 | 89 r | 79 r | 10 r | 88 r | 2 | 0 | 4 |
| Textile, apparel, and leather products | 313–16 | 25 | 21 | 4 | 11 | 3 | 11 r | 0 |
| Wood products | 321 | 6 | 4 | 1 | 3 | 1 | 1 | 3 |
| Paper | 322 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Printing and related support activities | 323 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Petroleum and coal products | 324 | 9 | 7 | 1 | 9 | 0 | 0 | 1 |
| Chemicals | 325 | 607 | 438 | 169 | 387 | 138 | 82 | 175 |
| Pharmaceuticals and medicines | 3254 | 296 | 201 | 95 | 227 | 50 | 19 | 120 |
| Chemicals, excluding pharmaceuticals | other 325 | 311 | 237 | 74 | 160 | 88 | 63 | 55 |
| Plastics and rubber products | 326 | 29 | 26 | 3 | 15 | 3 | 12 r | 1 |
| Nonmetallic mineral products | 327 | 24 | 23 | 1 | 18 | 6 r | 0 | 9 r |
| Primary metals | 331 | 11 r | 7 | 4 r | 11 r | 0 | 0 | 9 r |
| Fabricated metal products | 332 | 159 r | 156 r | 3 | 57 r | 59 r | 43 r | 2 r |
| Machinery | 333 | 512 | 422 | 90 | 380 | 104 | 28 | 59 |
| Computer and electronic products | 334 | 1,950 | 1,582 | 368 | 1,414 | 400 | 137 | 367 |
| Semiconductor and other electronic components | 3344 | 509 | 440 | 69 | 329 | 136 r | 44 | 127 |
| Navigational, measuring, electromedical, and control instruments | 3345 | 1,110 | 852 | 258 | 878 | 176 | 56 | 211 |
| Other computer and electronic products | other 334 | 332 | 290 | 42 | 207 | 88 | 37 | 29 |
| Electrical equipment, appliances, and components | 335 | 306 | 255 | 51 | 204 | 62 r | 40 | 42 r |
| Transportation equipment | 336 | 190 | 180 | 10 | 146 | 34 | 11 | 17 r |
| Aerospace products and parts | 3364 | 95 | 88 | 7 | 69 | 21 | 5 | 1 |
| Other transportation equipment | other 336 | 96 | 93 | 3 | 77 | 13 r | 6 r | 16 r |
| Furniture and related products | 337 | 3 | 3 | 0 | 3 | 0 | 0 | 0 |
| Miscellaneous manufacturing | 339 | 765 | 531 | 233 r | 687 | 70 | 7 | 253 |
| Selected nonmanufacturing industries | 42, 51, 5413, 5415, 5417 | 34,276 | 26,605 | 7,671 | 24,985 | 6,596 | 2,695 | 6,412 |
| Wholesale trade | 42 | 1,119 | 954 | 165 | 860 | 191 | 68 r | 137 |
| Information | 51 | 5,859 | 4,631 | 1,228 | 3,954 | 1,333 | 571 | 630 |
| Software publishers | 5112 | 4,299 | 3,382 | 917 | 2,911 | 892 | 496 | 499 |
| Information, excluding software publishers | 51 less 5112 | 1,559 | 1,248 | 311 | 1,043 | 442 | 75 | 131 |
| Architectural, engineering, and related services | 5413 | 5,330 | 4,454 | 876 | 4,067 | 920 | 343 | 505 |
| Computer systems design and related services | 5415 | 11,653 | 9,670 | 1,983 | 8,364 | 2,444 | 845 | 936 |
| Scientific research and development services | 5417 | 10,315 | 6,897 | 3,418 | 7,740 | 1,708 | 868 | 4,204 |

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|--|------------|---------------|-------|--------|---|--------------------------------------|--|--|
| Research and development in nanotechnology | 541713 | 1,119 | 763 | 355 | 812 | 140 | 167 | 498 |
| Research and development in biotechnology (except nanobiotechnology) | 541714 | 3,199 | 1,955 | 1,244 | 2,355 | 579 | 266 | 1,504 |
| Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology) | 541715 | 5,878 | 4,113 | 1,765 | 4,474 | 975 | 429 | 2,171 |
| Social sciences and humanities research and development | 541720 | 110 | 60 | 50 | 91 | 13 | 6 | 27 |

r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding. 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, 2022 Annual Business Survey: Data Year 2021.