

TABLE 58. Importance of mask works, by industry and company size: 2012  
(Percent)

| Industry and company size   | NAICS code          | Very important | Somewhat important | Not important |
|---|---------------------|----------------|--------------------|---------------|
| All industries <sup>a</sup>   | 21–23, 31–33, 42–81 | 5.8            | 8.9                | 85.3          |
| Manufacturing industries  | 31–33               | 6.8            | 9.4                | 83.8          |
| Food  | 311                 | 2.1            | 4.2                | 93.7          |
| Beverage and tobacco products   | 312                 | D              | D                  | 80.0          |
| Textile, apparel, and leather products  | 313–16              | D              | D                  | D             |
| Wood products   | 321                 | 0.0            | D                  | D             |
| Paper   | 322                 | D              | D                  | 89.5          |
| Printing and related support activities   | 323                 | 0.0            | 22.2               | 77.8          |
| Petroleum and coal products   | 324                 | 0.0            | 0.0                | 100.0         |
| Chemicals   | 325                 | 1.9            | 5.0                | 93.1          |
| Basic chemicals   | 3251                | 0.0            | 3.1                | 96.9          |
| Resin, synthetic rubber, and artificial synthetic fibers and filaments                    | 3252                | D              | D                  | D             |
| Pesticide, fertilizer, and other agricultural chemical                                    | 3253                | D              | D                  | D             |
| Pharmaceuticals and medicines   | 3254                | 0.9            | 4.3                | 94.8          |
| Soap, cleaning compound, and toilet preparation   | 3256                | D              | D                  | D             |
| Paint, coating, adhesive, and other chemicals   | 3255, 3259          | 5.0            | 8.4                | 86.6          |
| Plastics and rubber products  | 326                 | D              | 4.4                | D             |
| Nonmetallic mineral products  | 327                 | 0.0            | 7.7                | 92.3          |
| Primary metals  | 331                 | 5.6            | D                  | D             |
| Fabricated metal products   | 332                 | 2.1            | 5.8                | 92.1          |
| Machinery   | 333                 | S              | 13.0               | 83.4          |
| Agricultural implement  | 33311               | D              | D                  | D             |
| Semiconductor machinery   | 333295              | 13.4           | 36.4               | 50.3          |
| Engine, turbine, and power transmission equipment   | 3336                | S              | 5.4                | 80.8          |
| Other machinery   | other 333           | D              | D                  | D             |
| Computer and electronic products  | 334                 | 19.7           | 14.7               | 65.6          |
| Communications equipment  | 3342                | 7.8            | 21.4               | 70.8          |
| Semiconductor and other electronic components   | 3344                | 47.2           | 19.1               | 33.6          |
| Navigational, measuring, electromedical, and control instruments                          | 3345                | 6.3            | 10.6               | 83.1          |
| Electromedical, electrotherapeutic, and irradiation apparatus                             | 334510, 334517      | 7.8            | D                  | D             |
| Search, detection, navigation, guidance, aeronautical, and nautical system and instrument | 334511              | D              | D                  | D             |
| Other measuring and controlling device  | other 3345          | D              | D                  | D             |
| Other computer and electronic products  | other 334           | 18.4           | 8.9                | 72.7          |
| Electrical equipment, appliances, and components  | 335                 | 4.6            | 16.0               | 79.5          |
| Transportation equipment  | 336                 | 3.9            | 6.6                | 89.4          |
| Automobiles, bodies, trailers, and parts  | 3361–63             | D              | D                  | 86.0          |
| Aerospace products and parts  | 3364                | D              | D                  | 94.1          |
| Aircraft, aircraft engine, and aircraft parts   | 336411–13           | D              | D                  | D             |
| Guided missile, space vehicle, and related parts  | 336414–15, 336419   | D              | D                  | D             |
| Military armored vehicle, tank, and tank component  | 336992              | D              | D                  | D             |
| Other transportation  | other 336           | D              | D                  | D             |
| Furniture and related products  | 337                 | D              | D                  | D             |
| Miscellaneous manufacturing   | 339                 | 4.6            | 7.9                | 87.5          |
| Medical equipment and supplies  | 3391                | 5.0            | 8.3                | 86.7          |
| Other miscellaneous manufacturing   | 3399                | 3.7            | 7.3                | 89.1          |
| Nonmanufacturing industries   | 21–23, 42–81        | 4.7            | S                  | 86.8          |
| Mining, extraction, and support activities  | 21                  | 0.0            | 5.7                | 94.3          |
| Utilities   | 22                  | 0.0            | 30.2               | 69.8          |
| Wholesale trade   | 42                  | D              | D                  | D             |
| Electronic shopping and electronic auctions   | 454111–12           | S              | S                  | S             |
| Transportation and warehousing  | 48–49               | 0.0            | 0.0                | 100.0         |
| Information   | 51                  | 6.9            | 5.6                | 87.6          |
| Publishing  | 511                 | 2.7            | 4.0                | 93.3          |
| Newspaper, periodical, book, and directory publishers                                     | 5111                | S              | S                  | S             |
| Software publishers   | 5112                | 2.8            | 4.0                | 93.2          |
| Telecommunications  | 517                 | D              | D                  | D             |
| Data processing, hosting, and related services  | 518                 | 16.6           | 5.9                | 77.5          |

TABLE 58. Importance of mask works, by industry and company size: 2012  
(Percent)

| Industry and company size  | NAICS code  | Very important | Somewhat important | Not important |
|--|---|----------------|--------------------|---------------|
| Other information  | other 51  | D              | D                  | D             |
| Finance and insurance  | 52  | 0.0            | D                  | D             |
| Real estate and rental and leasing   | 53  | D              | D                  | D             |
| Lessors of nonfinancial intangible assets (except copyrighted works)                     | 533   | D              | D                  | D             |
| Other real estate and rental and leasing   | other 53  | D              | D                  | D             |
| Professional, scientific, and technical services   | 54  | 4.2            | S                  | 86.4          |
| Architectural, engineering, and related services   | 5413  | 4.4            | 8.0                | 87.6          |
| Computer systems design and related services   | 5415  | S              | S                  | S             |
| Scientific research and development services   | 5417  | 5.4            | S                  | 86.9          |
| Biotechnology research and development   | 541711  | 1.6            | 4.1                | 94.3          |
| Physical, engineering, and life sciences (except biotechnology) research and development | 541712  | S              | S                  | S             |
| Social sciences and humanities research and development                                  | 541720  | 0.0            | 0.0                | 100.0         |
| Other professional, scientific, and technical services                                   | other 54  | 3.4            | 5.8                | 90.8          |
| Health care services   | 621-23  | D              | D                  | D             |
| Other nonmanufacturing   | 23, 44-45 (excluding 454111-12),<br>55-56, 624, 71-72, 81 | D              | D                  | 81.6          |
| All companies (number of domestic employees)   | -   | 5.8            | 8.9                | 85.3          |
| Small companies <sup>b</sup>   |   |                |                    |               |
| 5-499  | -   | 6.1            | 8.4                | 85.5          |
| 5-99   | -   | 7.1            | 8.9                | 84.0          |
| 5-49   | -   | 5.9            | S                  | 85.6          |
| 5-9  | -   | 5.3            | S                  | 90.2          |
| 10-24  | -   | 5.9            | S                  | 87.0          |
| 25-49  | -   | 6.1            | S                  | 82.2          |
| 50-99  | -   | 10.5           | 9.9                | 79.6          |
| 100-249  | -   | 3.7            | 7.6                | 88.7          |
| 250-499  | -   | 5.0            | 7.3                | 87.7          |
| Medium and large companies   |   |                |                    |               |
| 500-999  | -   | D              | D                  | 84.7          |
| 1,000-4,999  | -   | 5.3            | 10.5               | 84.2          |
| 5,000-9,999  | -   | 1.9            | 14.5               | 83.7          |
| 10,000-24,999  | -   | 4.9            | 12.4               | 82.7          |
| 25,000 or more   | -   | D              | D                  | 85.2          |

D = data withheld to avoid disclosing operations of individual companies; S = data withheld as more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2007 North American Industry Classification System.

<sup>a</sup> Statistics are representative of companies in the United States that were eligible to receive Form BRDI-1 and performed or funded R&D. These statistics are not comparable to estimates from previous years, as those estimates are representative of all companies in the United States.

<sup>b</sup> The 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: The 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.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2012.