### Table 4
Domestic R&D performed by the company, by selected industry and type of R&D, for companies with 1–9 employees: 2020  
(Thousands of U.S. dollars)

<table>
<thead>
<tr>
<th>Industry</th>
<th>NAICS code</th>
<th>Total</th>
<th>Basic research</th>
<th>Applied research</th>
<th>Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>All selected industries</td>
<td>31–33, 42, 51, 5413, 5415, 5417</td>
<td>5,600,668</td>
<td>353,143</td>
<td>2,282,934</td>
<td>2,964,591</td>
</tr>
<tr>
<td>Manufacturing industries</td>
<td>31–33</td>
<td>627,387</td>
<td>35,215</td>
<td>247,837</td>
<td>343,299</td>
</tr>
<tr>
<td>Food, beverage, and tobacco products</td>
<td>311–12</td>
<td>9,614</td>
<td>298</td>
<td>5,022 r</td>
<td>4,293 r</td>
</tr>
<tr>
<td>Textile, apparel, and leather products</td>
<td>313–16</td>
<td>472</td>
<td>27 r</td>
<td>0</td>
<td>445 r</td>
</tr>
<tr>
<td>Wood products</td>
<td></td>
<td>321</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Paper</td>
<td></td>
<td>322</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Printing and related support activities</td>
<td></td>
<td>323</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Petroleum and coal products</td>
<td></td>
<td>324</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Chemicals</td>
<td></td>
<td>325</td>
<td>160,031</td>
<td>11,536</td>
<td>90,771</td>
</tr>
<tr>
<td>Pharmaceuticals and medicines</td>
<td></td>
<td>3254</td>
<td>77,054</td>
<td>5,179</td>
<td>41,866</td>
</tr>
<tr>
<td>Chemicals, excluding pharmaceuticals</td>
<td>other 325</td>
<td>82,977</td>
<td>6,358</td>
<td>48,904 r</td>
<td>27,715</td>
</tr>
<tr>
<td>Plastics and rubber products</td>
<td></td>
<td>326</td>
<td>18,099</td>
<td>545</td>
<td>8,616</td>
</tr>
<tr>
<td>Nonmetallic mineral products</td>
<td></td>
<td>327</td>
<td>133</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Primary metals</td>
<td></td>
<td>331</td>
<td>9,077 r</td>
<td>0</td>
<td>1,956 r</td>
</tr>
<tr>
<td>Fabricated metal products</td>
<td></td>
<td>332</td>
<td>37,292 r</td>
<td>218</td>
<td>447</td>
</tr>
<tr>
<td>Machinery</td>
<td></td>
<td>333</td>
<td>62,840</td>
<td>5,305 r</td>
<td>22,287</td>
</tr>
<tr>
<td>Computer and electronic products</td>
<td></td>
<td>334</td>
<td>189,225</td>
<td>11,993</td>
<td>86,219</td>
</tr>
<tr>
<td>Semiconductor and other electronic components</td>
<td></td>
<td>3344</td>
<td>36,372</td>
<td>4,465 r</td>
<td>13,785</td>
</tr>
<tr>
<td>Navigational, measuring, electromedical, and control instruments</td>
<td>3345</td>
<td>135,652</td>
<td>6,494</td>
<td>65,204</td>
<td>63,954</td>
</tr>
<tr>
<td>Other computer and electronic products</td>
<td>other 334</td>
<td>17,201</td>
<td>1,034</td>
<td>7,230</td>
<td>8,937</td>
</tr>
<tr>
<td>Electrical equipment, appliances, and components</td>
<td></td>
<td>335</td>
<td>24,958</td>
<td>320</td>
<td>5,725</td>
</tr>
<tr>
<td>Transportation equipment</td>
<td></td>
<td>336</td>
<td>38,247</td>
<td>4,292 r</td>
<td>15,128</td>
</tr>
<tr>
<td>Aerospace products and parts</td>
<td></td>
<td>3364</td>
<td>19,307</td>
<td>579</td>
<td>10,968</td>
</tr>
<tr>
<td>Other transportation equipment</td>
<td>other 336</td>
<td>18,940</td>
<td>3,714 r</td>
<td>4,160 r</td>
<td>11,067 r</td>
</tr>
<tr>
<td>Furniture and related products</td>
<td></td>
<td>337</td>
<td>124</td>
<td>41</td>
<td>41</td>
</tr>
<tr>
<td>Miscellaneous manufacturing</td>
<td></td>
<td>339</td>
<td>77,276</td>
<td>1,676</td>
<td>11,624</td>
</tr>
<tr>
<td>Selected nonmanufacturing industries</td>
<td>42, 51, 5413, 5415, 5417</td>
<td>4,973,281</td>
<td>316,892</td>
<td>2,035,097</td>
<td>2,621,292</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td></td>
<td>42</td>
<td>392,416</td>
<td>25,088 r</td>
<td>226,630</td>
</tr>
<tr>
<td>Information</td>
<td></td>
<td>51</td>
<td>689,766</td>
<td>34,648</td>
<td>205,391</td>
</tr>
<tr>
<td>Software publishers</td>
<td></td>
<td>5112</td>
<td>468,557</td>
<td>24,175</td>
<td>144,800</td>
</tr>
<tr>
<td>Information, excluding software publishers</td>
<td>51 less 5112</td>
<td>221,209</td>
<td>10,474</td>
<td>60,591</td>
<td>150,144</td>
</tr>
<tr>
<td>Architectural, engineering, and related services</td>
<td></td>
<td>5413</td>
<td>574,367</td>
<td>24,714</td>
<td>237,752</td>
</tr>
<tr>
<td>Computer systems design and related services</td>
<td></td>
<td>5415</td>
<td>1,122,622</td>
<td>118,121</td>
<td>348,258</td>
</tr>
<tr>
<td>Scientific research and development services</td>
<td></td>
<td>5417</td>
<td>2,194,110</td>
<td>114,321</td>
<td>1,017,065</td>
</tr>
<tr>
<td>Research and development in nanotechnology</td>
<td></td>
<td>541713</td>
<td>162,996</td>
<td>18,309</td>
<td>82,162</td>
</tr>
<tr>
<td>Research and development in biotechnology (except nanobiotechnology)</td>
<td>541714</td>
<td>913,514</td>
<td>31,951</td>
<td>425,572</td>
<td>455,991</td>
</tr>
<tr>
<td>Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)</td>
<td>541715</td>
<td>1,099,371</td>
<td>62,081</td>
<td>501,329</td>
<td>535,961</td>
</tr>
<tr>
<td>Social sciences and humanities research and development</td>
<td>541720</td>
<td>18,229</td>
<td>1,980 r</td>
<td>8,003</td>
<td>8,247</td>
</tr>
</tbody>
</table>

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 based on dominant establishment payroll. Statistics are representative of companies located in the United States that performed or funded R&D.
Source(s):