### Table 4
Domestic R&D performed by the company, by selected industry and source of funds, for companies with 1–9 employees: 2019

(Thousands of U.S. dollars)

<table>
<thead>
<tr>
<th>Industry</th>
<th>NAICS code</th>
<th>Total</th>
<th>Paid for by the company</th>
<th>Foreign owner</th>
<th>Another U.S. company</th>
<th>Other businesses outside the United States</th>
<th>U.S. university or college</th>
<th>U.S. nonprofit organization</th>
<th>U.S. federal government</th>
<th>U.S. state or local government</th>
<th>All other organizations outside the United States</th>
</tr>
</thead>
<tbody>
<tr>
<td>All selected industries</td>
<td>31–33, 42, 51, 5413, 5415, 5417</td>
<td>5,218,911</td>
<td>4,109,445</td>
<td>114,719</td>
<td>211,608</td>
<td>22,991</td>
<td>821</td>
<td>695</td>
<td>9,387</td>
<td>712,053</td>
<td>22,908</td>
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<tr>
<td>Manufacturing industries</td>
<td>31–33</td>
<td>622,220</td>
<td>525,012</td>
<td>24,975</td>
<td>15,484</td>
<td>423</td>
<td>812</td>
<td>695</td>
<td>9,387</td>
<td>712,053</td>
<td>22,908</td>
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<tr>
<td>Food, beverage, and tobacco products</td>
<td>311–12</td>
<td>5,896</td>
<td>4,140</td>
<td>1,099</td>
<td>71</td>
<td>168</td>
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<tr>
<td>Textile, apparel, and leather products</td>
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<tr>
<td>Wood products</td>
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<tr>
<td>Printing and related support activities</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>Petroleum and coal products</td>
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<tr>
<td>Chemicals</td>
<td>325</td>
<td>178,170</td>
<td>149,053</td>
<td>-</td>
<td>3,045</td>
<td>106</td>
<td>127</td>
<td>40</td>
<td>14,939</td>
<td>204</td>
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<tr>
<td>Pharmaceuticals and medicines</td>
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<td>177,508</td>
<td>101,816</td>
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<td>90</td>
<td>40</td>
<td>14,939</td>
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<tr>
<td>Chemicals, excluding pharmaceuticals</td>
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<tr>
<td>Plastics and rubber products</td>
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<tr>
<td>Nonmetallic mineral products</td>
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<td>Fabbed metal products</td>
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<td>123</td>
<td>1,236</td>
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<tr>
<td>Computer and electronic products</td>
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<td>227,158</td>
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<td>12,117</td>
<td>524</td>
<td>454</td>
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<tr>
<td>Semiconductor and other electronic components</td>
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<td>161,373</td>
<td>134,114</td>
<td>12,117</td>
<td>524</td>
<td>454</td>
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<tr>
<td>Electrical equipment, appliances, and components</td>
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<td>27,480</td>
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<td>318</td>
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<tr>
<td>Transportation equipment</td>
<td>336</td>
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<td>1,324</td>
<td>1,236</td>
<td>135</td>
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<tr>
<td>Aerospace products and parts</td>
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<td>11,859</td>
<td>9,164</td>
<td>1,324</td>
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<tr>
<td>Other transportation equipment</td>
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<td>Furniture and related products</td>
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<tr>
<td>Miscellaneous manufacturing</td>
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<td>107,903</td>
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<td>14</td>
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<tr>
<td>Selected nonmanufacturing industries</td>
<td>42, 51, 5413, 5415, 5417</td>
<td>4,596,691</td>
<td>3,584,433</td>
<td>89,744</td>
<td>196,124</td>
<td>22,568</td>
<td>11,244</td>
<td>8,692</td>
<td>658,546</td>
<td>21,717</td>
<td>3,622</td>
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<tr>
<td>Wholesale trade</td>
<td>42</td>
<td>225,813</td>
<td>202,430</td>
<td>12,117</td>
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<tr>
<td>Information</td>
<td>51</td>
<td>327,921</td>
<td>312,133</td>
<td>4,033</td>
<td>20,906</td>
<td>1,578</td>
<td>10,136</td>
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<td>475</td>
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<td>Software publishers</td>
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<td>248,382</td>
<td>18,847</td>
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<tr>
<td>Information, excluding software publishers</td>
<td>51 less 5112</td>
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<td>-</td>
<td>-</td>
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### Table 4

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</tr>
</thead>
<tbody>
<tr>
<td>Architectural, engineering, and related services</td>
<td>5413</td>
<td>454,913</td>
<td>321,235</td>
<td>12,905 r</td>
<td>44,862</td>
<td>2,850</td>
<td>1,789 r</td>
<td>54 r</td>
<td>70,383 r</td>
<td>266 r</td>
<td>570 r</td>
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<tr>
<td>Computer systems design and related services</td>
<td>5415</td>
<td>1,435,159</td>
<td>1,332,829</td>
<td>393 r</td>
<td>38,593</td>
<td>5,930</td>
<td>2,884</td>
<td>2,375 r</td>
<td>52,124 r</td>
<td>31 r</td>
<td>- r</td>
</tr>
<tr>
<td>Scientific research and development services</td>
<td>5417</td>
<td>1,882,122</td>
<td>1,167,044</td>
<td>62,125 r</td>
<td>79,645</td>
<td>13,789</td>
<td>4,993</td>
<td>6,263 r</td>
<td>525,380 r</td>
<td>20,307 r</td>
<td>2,577 r</td>
</tr>
<tr>
<td>Research and development in nanotechnology</td>
<td>541713</td>
<td>175,639</td>
<td>130,833</td>
<td>6,111 r</td>
<td>8,800</td>
<td>851</td>
<td>1,730</td>
<td>76 r</td>
<td>26,345 r</td>
<td>894 r</td>
<td>- r</td>
</tr>
<tr>
<td>Research and development in biotechnology (except nanobiotechnology)</td>
<td>541714</td>
<td>645,887</td>
<td>465,202</td>
<td>25,382 r</td>
<td>20,196 r</td>
<td>4,926</td>
<td>131</td>
<td>4,540 r</td>
<td>120,789 r</td>
<td>4,480 r</td>
<td>241 r</td>
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<tr>
<td>Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)</td>
<td>541715</td>
<td>1,026,911</td>
<td>558,406</td>
<td>30,632 r</td>
<td>38,721</td>
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<td>3,075</td>
<td>1,646 r</td>
<td>369,150 r</td>
<td>14,933 r</td>
<td>2,336 r</td>
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<tr>
<td>Social sciences and humanities research and development</td>
<td>541720</td>
<td>31,464</td>
<td>10,764</td>
<td>-</td>
<td>11,547 r</td>
<td>-</td>
<td>57 r</td>
<td>- r</td>
<td>-</td>
<td>9,096 r</td>
<td>- r</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):**