### Long-Term Occupational Employment Projections (STEM occupations)

**Michigan Department of Technology, Management and Budget, Bureau of Labor Market Information and Strategic Initiatives**

<table>
<thead>
<tr>
<th>SOC Code</th>
<th>Occupation or Group Title</th>
<th>Employment 2014</th>
<th>Employment Change 2014-2024</th>
<th>Annual Average Openings</th>
<th>Typical Education Needed for Entry</th>
<th>Work Experience in a Related Occupation</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-3021</td>
<td>Computer and Information Systems Managers</td>
<td>920</td>
<td>1,045</td>
<td>-13%</td>
<td>12</td>
<td>11</td>
</tr>
<tr>
<td>11-3041</td>
<td>Architectural and Engineers Managers</td>
<td>1,320</td>
<td>1,445</td>
<td>12%</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>11-3011</td>
<td>Natural Sciences Managers</td>
<td>780</td>
<td>70</td>
<td>-99%</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11-3111</td>
<td>Computer Systems Analysts</td>
<td>1,313</td>
<td>1,640</td>
<td>25%</td>
<td>20</td>
<td>17</td>
</tr>
<tr>
<td>11-3131</td>
<td>Information Security Analysts</td>
<td>1,670</td>
<td>1,810</td>
<td>8%</td>
<td>18</td>
<td>15</td>
</tr>
<tr>
<td>11-3133</td>
<td>Computer Programmers</td>
<td>370</td>
<td>450</td>
<td>-22%</td>
<td>20</td>
<td>19</td>
</tr>
<tr>
<td>11-3152</td>
<td>Software Developers, Applications</td>
<td>1,680</td>
<td>2,090</td>
<td>25%</td>
<td>30</td>
<td>24</td>
</tr>
<tr>
<td>11-3134</td>
<td>Software Developers, Systems Software</td>
<td>1,385</td>
<td>1,330</td>
<td>-4%</td>
<td>13</td>
<td>10</td>
</tr>
<tr>
<td>11-3141</td>
<td>Web Developers</td>
<td>405</td>
<td>510</td>
<td>27%</td>
<td>24</td>
<td>15</td>
</tr>
<tr>
<td>11-3142</td>
<td>Database Administrators</td>
<td>370</td>
<td>350</td>
<td>-6%</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>11-3152</td>
<td>Network and Computer Systems Administrators</td>
<td>1,345</td>
<td>1,490</td>
<td>10%</td>
<td>14</td>
<td>17</td>
</tr>
<tr>
<td>11-3149</td>
<td>Computer Network Administrators</td>
<td>275</td>
<td>325</td>
<td>18%</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>11-3141</td>
<td>Computer User Support Specialists</td>
<td>2,760</td>
<td>3,200</td>
<td>16%</td>
<td>44</td>
<td>30</td>
</tr>
<tr>
<td>11-3152</td>
<td>Computer Network Support Specialists</td>
<td>5,540</td>
<td>6,170</td>
<td>12%</td>
<td>63</td>
<td>71</td>
</tr>
<tr>
<td>11-3011</td>
<td>Computer Occupations, All Other</td>
<td>725</td>
<td>800</td>
<td>10%</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>11-3031</td>
<td>Actuaries</td>
<td>410</td>
<td>510</td>
<td>25%</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>12-3011</td>
<td>Operations Research Analysts</td>
<td>85</td>
<td>115</td>
<td>36%</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>12-3012</td>
<td>Statisticians</td>
<td>560</td>
<td>790</td>
<td>40%</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>17-1011</td>
<td>Architects, Except Landscape and Naval</td>
<td>350</td>
<td>390</td>
<td>11%</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>17-1022</td>
<td>Landscape Architects</td>
<td>75</td>
<td>85</td>
<td>13%</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>17-1022</td>
<td>Surveyors</td>
<td>130</td>
<td>130</td>
<td>0%</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>17-2051</td>
<td>Civil Engineers</td>
<td>880</td>
<td>1,010</td>
<td>14%</td>
<td>13</td>
<td>26</td>
</tr>
<tr>
<td>17-2112</td>
<td>Industrial Engineers</td>
<td>1,090</td>
<td>1,150</td>
<td>6%</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td>17-2131</td>
<td>Materials Engineers</td>
<td>430</td>
<td>445</td>
<td>4%</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>17-2141</td>
<td>Mechanical Engineers</td>
<td>2,610</td>
<td>2,950</td>
<td>13%</td>
<td>34</td>
<td>83</td>
</tr>
<tr>
<td>17-3011</td>
<td>Architectural and Civil Drafters</td>
<td>325</td>
<td>340</td>
<td>5%</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>17-3019</td>
<td>Drafters, All Other</td>
<td>60</td>
<td>65</td>
<td>8%</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>17-3023</td>
<td>Electrical and Electronics Engineering Technicians</td>
<td>940</td>
<td>1,010</td>
<td>7%</td>
<td>7</td>
<td>23</td>
</tr>
<tr>
<td>17-3027</td>
<td>Mechanical Engineering Technicians</td>
<td>1,575</td>
<td>1,705</td>
<td>8%</td>
<td>13</td>
<td>39</td>
</tr>
<tr>
<td>17-3029</td>
<td>Engineering Technicians, Except Drafters, All Other</td>
<td>260</td>
<td>295</td>
<td>13%</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>17-3021</td>
<td>Surveying and Mapping Technicians</td>
<td>85</td>
<td>80</td>
<td>-6%</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>19-2031</td>
<td>Chemists</td>
<td>325</td>
<td>345</td>
<td>6%</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>19-2099</td>
<td>Physical Scientists, All Other</td>
<td>90</td>
<td>100</td>
<td>11%</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>19-4011</td>
<td>Agricultural and Food Science Technicians</td>
<td>200</td>
<td>230</td>
<td>15%</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>19-4021</td>
<td>Biological Technicians</td>
<td>85</td>
<td>85</td>
<td>0%</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>19-4031</td>
<td>Chemical Technicians</td>
<td>335</td>
<td>360</td>
<td>8%</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>25-1021</td>
<td>Computer Science Teachers, Postsecondary</td>
<td>105</td>
<td>115</td>
<td>10%</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>25-1052</td>
<td>Chemistry Teachers, Postsecondary</td>
<td>125</td>
<td>140</td>
<td>12%</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>25-1054</td>
<td>Physics Teachers, Postsecondary</td>
<td>65</td>
<td>75</td>
<td>15%</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>41-4011</td>
<td>Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products</td>
<td>1,075</td>
<td>1,175</td>
<td>10%</td>
<td>10</td>
<td>22</td>
</tr>
</tbody>
</table>

*Indicates non-disclosure of data due to data quality or confidentiality. Employment is rounded to the nearest 25. Employment change values and percents are based on rounded data. Growth-openings are zero indicate declining occupations or those in which the base level is expected to change. Replacement openings reflect permanent separations such as death, retirement, disability, other, but do not reflect total job turnover. **Real time demand:** job advertisements for period 7/31/2014 - 8/31/2014, for counties: Kent, Ottawa, Macomb, Allegan, Montcalm, Newaygo **Wage range:** 2017 OES data for Grand Rapids-Wyoming Metropolitan Statistical Area (Kent, Montcalm, Ottawa, Barry counties)

Note: Figures based on Michigan data