Northern Illinois P-20 Network
Alignment of Standards for Advancing Student Opportunities

2014 Workforce Needs Report – College of DuPage

The data in this report is based on skills listed in job postings for the College of DuPage district area from January 1 to December 31 in 2010 and 2014. The NIU Center for Governmental Studies retrieved the data on a city by city basis for the geographic region that each community college serves, using Burning Glass Technologies. Four types of data were pulled. The first set is by employer. The second set is by occupation. The third set is by salary. The fourth set is by skills, as defined below. A map documenting the cities represented in this report is included at the end of this report. Cities that fall partially within a community college district have been included. Cities may lie in more than one district. Duplicated job postings are scrubbed from the data.

Skill types are defined by Burning Glass Technologies as follows.

- Specialized Skills: more occupation-specific. Accounting, python, phlebotomy, patient care, etc.
- Baseline Skills: these are general skills, such as communications, leadership, and writing, and are transferrable across occupations.
- Software and Programming skills: All computer-based skills. NOTE: these may *also* fall into either baseline or specialized skills lists. Baseline will include basic skills, e.g. Excel, Word, while specialized will include more advanced computer skills; e.g. C#, STATA, R, Python.

Burning Glass's Labor Insight tool is an advanced analytic application that allows users to analyze, trend, and compare real-time jobs data on a regional, statewide, or national basis, at a granular level of detail that highlights skills, knowledge, experience, and education in demand as well as industries and occupations. Using a branch of artificial intelligence called Statistical Natural Language Processing (SNLP), Burning Glass's patented approach allows this tool to mine the text of each job posting to extract and code a much larger data record, which includes: job function (O*NET), employer industry (NAICS), location (through geo-coordinates, MSA, and LMA), educational requirements (degree, level, and major), source, common and specialized skills (using a multi-level, hierarchical and fully customizable skills dictionary of over 15,000 skills), the duration and level of experience, required certifications or licenses, and much more.
A “0” in the 2010 numbers indicates that the occupation was not one of the top 25 occupations for 2010. It does not indicate that there were no job postings for those occupations.
### DuPage Mean Salary for Top 20 Occupations 2014

<table>
<thead>
<tr>
<th>SOC Code (ONET-6)</th>
<th>Occupation title</th>
<th>Real Time Job Postings</th>
<th>Advertised Mean Salary</th>
<th>% Real Time Job Postings Requiring High School</th>
<th>% Real Time Job Postings Requiring Post-Secondary or Associate's Degree</th>
<th>% Real Time Job Postings Requiring Bachelor's Degree</th>
<th>% Real Time Job Postings Requiring Graduate or Professional Degree</th>
<th>2013 Mean National Salary according to BLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>41-2031</td>
<td>Retail Salespersons</td>
<td>6,519</td>
<td>$53,605</td>
<td>81%</td>
<td>10%</td>
<td>14%</td>
<td>6%</td>
<td>$25,370</td>
</tr>
<tr>
<td>15-1132</td>
<td>Software Developers, Applications</td>
<td>5,204</td>
<td>$92,680</td>
<td>7%</td>
<td>3%</td>
<td>94%</td>
<td>20%</td>
<td>$96,260</td>
</tr>
<tr>
<td>41-4012</td>
<td>Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products</td>
<td>4,471</td>
<td>$57,645</td>
<td>39%</td>
<td>10%</td>
<td>65%</td>
<td>7%</td>
<td>$64,670</td>
</tr>
<tr>
<td>43-4051</td>
<td>Customer Service Representatives</td>
<td>4,141</td>
<td>$35,790</td>
<td>75%</td>
<td>19%</td>
<td>30%</td>
<td>4%</td>
<td>$33,370</td>
</tr>
<tr>
<td>39-9011</td>
<td>Childcare Workers and Nannies</td>
<td>3,727</td>
<td>$27,078</td>
<td>70%</td>
<td>12%</td>
<td>18%</td>
<td>13%</td>
<td>$21,490</td>
</tr>
<tr>
<td>29-1141</td>
<td>Registered Nurses</td>
<td>3,664</td>
<td>$67,714</td>
<td>2%</td>
<td>31%</td>
<td>56%</td>
<td>46%</td>
<td>$68,910</td>
</tr>
<tr>
<td>41-1011</td>
<td>First-Line Supervisors of Retail Sales Workers</td>
<td>3,133</td>
<td>$49,531</td>
<td>59%</td>
<td>22%</td>
<td>47%</td>
<td>10%</td>
<td>$41,450</td>
</tr>
<tr>
<td>35-3021</td>
<td>Combined Food Preparation and Serving Workers, Including Fast Food</td>
<td>2,773</td>
<td>$39,641</td>
<td>99%</td>
<td>1%</td>
<td>2%</td>
<td>0%</td>
<td>$18,880</td>
</tr>
<tr>
<td>53-7062</td>
<td>Laborers and Freight, Stock, and Material Movers, Hand</td>
<td>2,323</td>
<td>$29,436</td>
<td>96%</td>
<td>11%</td>
<td>3%</td>
<td>2%</td>
<td>$26,690</td>
</tr>
<tr>
<td>15-1121</td>
<td>Computer Systems Analysts</td>
<td>2,213</td>
<td>$75,011</td>
<td>6%</td>
<td>6%</td>
<td>91%</td>
<td>21%</td>
<td>$85,320</td>
</tr>
<tr>
<td>35-1012</td>
<td>First-Line Supervisors of Food Preparation and Serving Workers</td>
<td>2,104</td>
<td>$32,462</td>
<td>85%</td>
<td>10%</td>
<td>16%</td>
<td>2%</td>
<td>$31,980</td>
</tr>
<tr>
<td>11-9199</td>
<td>Managers, All Other</td>
<td>2,070</td>
<td>$76,673</td>
<td>5%</td>
<td>5%</td>
<td>88%</td>
<td>28%</td>
<td>$108,380</td>
</tr>
<tr>
<td>13-1071</td>
<td>Human Resources Specialists</td>
<td>1,915</td>
<td>$56,385</td>
<td>17%</td>
<td>10%</td>
<td>83%</td>
<td>10%</td>
<td>$61,560</td>
</tr>
<tr>
<td>11-2022</td>
<td>Sales Managers</td>
<td>1,858</td>
<td>$80,632</td>
<td>15%</td>
<td>6%</td>
<td>86%</td>
<td>17%</td>
<td>$123,150</td>
</tr>
<tr>
<td>13-2011</td>
<td>Accountants and Auditors</td>
<td>1,835</td>
<td>$60,515</td>
<td>1%</td>
<td>1%</td>
<td>97%</td>
<td>21%</td>
<td>$72,500</td>
</tr>
<tr>
<td>43-6014</td>
<td>Secretaries and Administrative Assistants, Except Legal, Medical, and Executive</td>
<td>1,795</td>
<td>$36,694</td>
<td>68%</td>
<td>29%</td>
<td>30%</td>
<td>4%</td>
<td>$34,000</td>
</tr>
<tr>
<td>15-1151</td>
<td>Computer User Support Specialists</td>
<td>1,784</td>
<td>$50,009</td>
<td>31%</td>
<td>27%</td>
<td>59%</td>
<td>8%</td>
<td>$50,450</td>
</tr>
<tr>
<td>15-1199</td>
<td>Computer Occupations, All Other - Businesses Intelligence Analyst</td>
<td>1,683</td>
<td>$85,803</td>
<td>9%</td>
<td>5%</td>
<td>86%</td>
<td>25%</td>
<td>$83,240</td>
</tr>
<tr>
<td>53-3032</td>
<td>Heavy and Tractor-Trailer Truck Drivers</td>
<td>6,610</td>
<td>$70,404</td>
<td>66%</td>
<td>9%</td>
<td>32%</td>
<td>4%</td>
<td>$40,940</td>
</tr>
</tbody>
</table>

This report provides information on both the preferred and minimum/required education levels for job postings. For this reason, a job posting may be counted in more than one of the educational categories shown in the table above.
Top 25 Specialized Skills 2014-2010 Comparison

A "0" in the 2010 numbers indicates that the skill was not one of the top 25 skills for 2010. It does not indicate that there were no job postings for those skills.
**COD: Top 25 Software Skills Report 2010**

- Microsoft Excel: 8,945
- Microsoft Office: 5,782
- Microsoft PowerPoint: 3,492
- SQL: 3,459
- Microsoft Windows: 3,369
- Oracle: 3,352
- JAVA: 2,226
- Microsoft Word: 1,847
- SAP: 1,811
- UNIX: 1,802
- SQL Server: 1,473
- Extensible Markup Language (XML): 1,464
- .NET Programming: 1,368
- LINUX: 1,297
- JavaScript: 1,186
- Microsoft C#: 1,066
- C++: 1,039
- Object-Oriented Analysis and Design: 882
- Microsoft Project: 858
- Oracle PL/SQL: 838
- Enterprise Resource Planning (ERP): 822
- Microsoft Visio: 806
- Word Processing: 765
- Microsoft Sharepoint: 696
- Cisco: 673

**COD: Top 25 Software Skills Report 2014**

- Microsoft Excel: 17,963
- Microsoft Office: 13,719
- Microsoft PowerPoint: 7,402
- Microsoft Windows: 6,067
- SQL: 4,175
- Microsoft Word: 3,798
- Oracle: 3,669
- SAP: 3,489
- JAVA: 2,587
- Enterprise Resource Planning (ERP): 2,074
- JavaScript: 1,884
- .NET Programming: 1,794
- LINUX: 1,778
- Extensible Markup Language (XML): 1,734
- SQL Server: 1,607
- Microsoft C#: 1,544
- Microsoft Sharepoint: 1,481
- UNIX: 1,421
- Microsoft Visio: 1,333
- Word Processing: 1,324
- Cisco: 1,204
- C++: 1,107
- Computer Aided Drafting/Design (CAD): 1,084
- jQuery: 1,015
- Object-Oriented Analysis and Design: 955