Indicators of Demand
LMI, Technology skills and Credentials in O*NET and CareerOneStop

OWI
DNPTTA
Workforce Information and Electronic Tools
O*NET Bright Outlook
(based on BLS national projections)
Summary Report for:
15-1292.00 - Software Developers

Research, design, and develop computer and network software or specialized utility programs. Analyze user needs and develop software solutions, applying principles and techniques of computer science, engineering, and mathematical analysis. Update software or enhance existing software capabilities. May work with computer hardware engineers to integrate hardware and software systems, and develop specifications and performance requirements. May maintain databases within an application area, working individually or coordinating database development as part of a team.

Sample of reported job titles: Application Developer, Application Integration Engineer, Developer, Infrastructure Engineer, Network Engineer, Software Architect, Software Developer, Software Development Engineer, Software Engineer, Systems Engineer

This title represents an occupation for which data collection is currently underway.

Click on the 'fire icon

Technology Skills

- Database management system software — Amazon DynamoDB, Elasticsearch, MongoDB, NoSQL
- Data base user interface and query software — Artable, Apache Hive, Backboard software, MySQL
- Development environment software — Advanced business application programming ABAF, Apache Ant, Common business oriented language COBOL, Go
- Object or component oriented development software — Apache Spark, Query, Objective C, Scala
- Web platform development software — Backbone.js, Google AngularJS, Microsoft ASP.NET Core MVC, React
Occupations that use a specific *hot* technology

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[Image of O*NET Online page with circled text: Hot Technology - Apache Hive]
Hot Technology
Red Hat WildFly

Hot technologies are requirements frequently included in employer job postings. Listed below are occupations where this technology is most often mentioned.

Red Hat WildFly

In the category “Application server software”

1. Computer Systems Engineers/Architects
2. Network and Computer Systems Administrators
3. Computer Systems Analysts
4. Web Developers
5. Computer Programmers
6. Computer User Support Specialists
7. Information Security Analysts
8. Information Technology Project Managers
9. Management Analysts
10. Database Administrators
11. Software Quality Assurance Analysts and Testers
12. Validation Engineers
13. Web Administrators
14. Computer Network Architects
15. Database Architects
16. Business Intelligence Analysts
17. Computer and Information Systems Managers
18. Food Science Technicians
19. Software Developers
About the O*NET-SOC 2019 Taxonomy

The O*NET-SOC 2019 taxonomy structure has been revised based on the transition to the 2018 SOC. The new O*NET-SOC taxonomy includes 1,016 occupational titles, 923 of which represent O*NET data-level occupations.

Based on the 2018 SOC System

- 23 Major Groups
- 98 Minor Groups
- 459 Broad Occupations
- 867 Detailed SOC Occupations
- 1,016 O*NET-SOC 2019 Occupations (including 867 SOCs)

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<table>
<thead>
<tr>
<th>Data-Level</th>
<th>Non Data-Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>722 SOC Level without detailed O*NET-SOCs</td>
<td>19 SOC Military Specific and Military &quot;All Other&quot;</td>
</tr>
<tr>
<td>52 SOC Level with detailed O*NET-SOCs</td>
<td>24 SOC &quot;All Other&quot; with detailed O*NET-SOCs</td>
</tr>
<tr>
<td>149 Detailed O*NET-SOCs</td>
<td>50 SOC &quot;All Other&quot; without detailed O*NET-SOCs</td>
</tr>
</tbody>
</table>

923 Titles and Data
93 Titles Only

[https://www.onetcenter.org/taxonomy.html#latest](https://www.onetcenter.org/taxonomy.html#latest)
O*NET Transition to 2018 Standard Occupational Classification

Transition to the O*NET-SOC 2019

The O*NET 25.1 Database release incorporated the O*NET-SOC 2019 Taxonomy structure. The release of this database occurred November 17, 2020. In addition, at that time, the O*NET websites and O*NET Web Services transitioned to the new structure. This release schedule tool into account the implementation schedules for the 2018 SOC of related stat on occupations from the Bureau of Labor Statistics and the Census Bureau.

To help O*NET Web Services users with the taxonomy transition, Taxonomy Services are available to enable developers to connect occupational data between existing systems based on the legacy O*NET-SOC 2010 taxonomy, and the Current O*NET SOC 2019 taxonomy-based O*NET Web Services.

For customers whose program schedule has not yet enabled them to migrate to the O*NET-SOC 2019 Taxonomy, O*NET OnLine Archives is available. This limited snapshot version of O*NET OnLine provides access to archived occupation reports that will remain permanently based on the O*NET-SOC 2010 Taxonomy. In addition, the O*NET 25.0 database (last O*NET-SOC 2010 based version) will remain available at O*NET Database Releases Archive.
Receive O*NET Updates

At bottom right of any O*NET website
Look for the envelope icon following Follow-us:
CareerOneStop – What’s Hot

- Fastest Growing Careers
- Careers with the Most Openings
- Careers with the Largest Employment
- Careers with Declining Employment

https://www.careeronestop.org/ExploreCareers/Learn/whats-hot.aspx
Fastest-Growing Careers
Find training, financial aid and professional development resources.

**Local Training Finder**
Locate local schools and training programs by occupation or location to find the best fit for you.

**Certification Finder**
Learn about occupational certifications and how to acquire them.

**Scholarship Finder**
Search more than 7,000 scholarships, fellowships, loans, and other financial aid opportunities.

**License Finder**
License requirements vary by state. Learn whether a career of interest requires a license in any of the 50 states, and find contact information for the agency in your state that oversees licensing.

**Professional Association Finder**
Locate national professional associations by occupation, industry, or the association name. Tool provides a link to the association’s website and indicates whether the association has a career center or offers certifications.
What do the icons next to the certifications mean?

- **This certification is considered in demand.** CareerOneStop’s analysis indicates the certification is frequently mentioned in online job postings.

- **This certification is accredited by ANSI.** The American National Standards Institute (ANSI)

- **This certification is related to Career and Technical Education Career Clusters.** Certifications marked with [C] are related to the knowledge and skills specified in one or more of the sixteen Career and Technical Education Programs of Study.

- **This certification is industry-endorsed.** Certifications marked as third-party endorsed are endorsed by a major industry association that is not itself the developer of the certification.

- **This certification is related to the Job Corps training program.** Certifications marked with [J] are ones that have been selected by the industry groups that advise the Job Corps program on their training program offerings.

- **This certification is related to Military Occupational Specialties.** These certifications were identified in Credentialing Opportunities On-Line (COOL) sites

- **This certification is accredited by NCCA.** The National Commission for Certifying Agencies
Icons with the Certifications

<table>
<thead>
<tr>
<th>Certification Name</th>
<th>Certifying Organization</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certified Logistics Technician</td>
<td>Manufacturing Skill Standards Council</td>
<td>Core</td>
</tr>
<tr>
<td>Certified Logistic Professional</td>
<td>International Warehouse Logistics Association</td>
<td>Core</td>
</tr>
<tr>
<td>Global Logistics Associate</td>
<td>American Production and Inventory Control Society</td>
<td>Core</td>
</tr>
<tr>
<td>SAP Certified Application Professional - Logistics Execution &amp; Warehouse Mgmt. with SAP EWM 6.0 IPs</td>
<td>SAP America, Inc.</td>
<td>Advanced</td>
</tr>
<tr>
<td>Certified in Transportation and Logistics and Distribution</td>
<td>American Production and Inventory Control Society</td>
<td>Advanced</td>
</tr>
<tr>
<td>Certified International Trade Logistics Specialist</td>
<td>IIEI Certification</td>
<td>Specialty</td>
</tr>
<tr>
<td>Certification</td>
<td>Issuing Organization</td>
<td>Level</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>---------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Certified Master Logisticist</td>
<td>International Society of Logistics</td>
<td>Advanced</td>
</tr>
<tr>
<td>Certified International Trade Professional</td>
<td>IIEI Certification</td>
<td>Advanced</td>
</tr>
<tr>
<td>Certified Supply Chain Professional</td>
<td>American Society of Transportation and Logistics</td>
<td>Advanced</td>
</tr>
<tr>
<td>Certified Technology Specialist-Installation</td>
<td>InfoComm International</td>
<td>Core</td>
</tr>
<tr>
<td>Certified Correctional Trainer</td>
<td>American Jail Association</td>
<td>Advanced</td>
</tr>
<tr>
<td>SAP Certified Application Professional - EWMS with SAP S/4 HANA 7.5</td>
<td>SAP America, Inc.</td>
<td>Advanced</td>
</tr>
<tr>
<td>SAP Certified Application Professional - EWMS with SAP S/4 HANA 7.5</td>
<td>SAP America, Inc.</td>
<td>Advanced</td>
</tr>
<tr>
<td>SAP Certified Application Associate - SAP Business One 9.0</td>
<td>SAP America, Inc.</td>
<td>Product/Equipment</td>
</tr>
<tr>
<td>Microsoft Dynamics AX 2012 Lean Manufacturing</td>
<td>Microsoft Corporation</td>
<td>Product/Equipment</td>
</tr>
<tr>
<td>Certified Emergency Operation Centre (EOC) Manager</td>
<td>Center for Security and Emergency Management</td>
<td>Advanced</td>
</tr>
<tr>
<td>Certified Materials &amp; Resource Professional</td>
<td>Association for Healthcare Resource &amp; Materials Management</td>
<td>Core</td>
</tr>
<tr>
<td>Certified Maintenance &amp; Reliability Professional</td>
<td>Society for Maintenance &amp; Reliability Professionals</td>
<td>Advanced</td>
</tr>
</tbody>
</table>
CareerOneStop Occupational License Finder

NURSE, LICENSED PRACTICAL

License Description: An individual who assists in the care of the ill, injured, and disabled persons. Under the supervision of registered nurses, physicians, dentists, or podiatrists, the licensed practical nurse administers certain medications, monitors equipment, cleans dressings, takes temperatures and blood pressures, and assists patients with personal hygiene.

License Name: Licensed Practical Nurse

License Type: Stand-alone license

License Updated: 10/22/2014

License Requirements:
- Continuing education required
- No criminal record requirements
- Degree required
- Third-party exam required
- No experience
COS Available Workforce Toolkit

https://www.careeronestop.org/Toolkit/StateAndLocal/available-workforce.aspx
Available Workforce

The Available Workforce tool lets you build profiles of your state and local workforce. You can create and view customized reports including:

- Current and projected employment
- Average wages
- Unemployment rates
- Top industries
- Local education and training programs
- Local demographic information

To get started, enter an occupation and a city, state, or ZIP code below.

Search by Occupation
- Welders, Cutters, Solderers

Location
- Baltimore, MD

Search
See various options by clicking through the left panel.
Employment Concentration of Welders, Cutters, Solderers, and Brazers in Baltimore, MD

<table>
<thead>
<tr>
<th>Rank</th>
<th>Region</th>
<th>2019 Employment Concentration level</th>
<th>Location Quotient</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Maryland Balance of State</td>
<td>Average opportunities</td>
<td>1.29</td>
</tr>
<tr>
<td>2</td>
<td>Hagerstown-Martinsburg, MD-WV</td>
<td>Below average opportunities</td>
<td>0.66</td>
</tr>
<tr>
<td>3</td>
<td>Cumberland, MD-WV Metro Area</td>
<td>Below average opportunities</td>
<td>0.57</td>
</tr>
</tbody>
</table>
## Area Profile for Baltimore, Md

<table>
<thead>
<tr>
<th>Local Area Information</th>
<th>Baltimore city</th>
<th>Baltimore-Columbia-Towson, MD Metropolitan Statistical Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population</td>
<td>622,271</td>
<td>2,753,396</td>
</tr>
<tr>
<td>Civilian labor force</td>
<td>312,605</td>
<td>1,481,223</td>
</tr>
<tr>
<td>Number employed</td>
<td>269,678</td>
<td>1,360,481</td>
</tr>
<tr>
<td>Unemployment rate</td>
<td>8.0%</td>
<td>5.5%</td>
</tr>
<tr>
<td>Median household income</td>
<td>$41,819</td>
<td>$70,311</td>
</tr>
<tr>
<td>Per capita income</td>
<td>$25,062</td>
<td>$35,613</td>
</tr>
<tr>
<td>Poverty rate</td>
<td>24.2%</td>
<td>11%</td>
</tr>
<tr>
<td>High school graduates</td>
<td>80.9%</td>
<td>89.2%</td>
</tr>
<tr>
<td>Bachelor’s degree or higher</td>
<td>27.7%</td>
<td>36.6%</td>
</tr>
<tr>
<td>Median gross rent</td>
<td>$944</td>
<td>$1,141</td>
</tr>
<tr>
<td>Rent as a percentage of household income</td>
<td>32.9%</td>
<td>30.9%</td>
</tr>
<tr>
<td>Median housing value</td>
<td>$155,000</td>
<td>$277,600</td>
</tr>
</tbody>
</table>

### Location Reports

- [Unemployment Rates](#)
- [Area Institutions](#)
- [Top Industries](#)

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2021 WIOA Performance Accountability Convening
CareerOneStop newsletter

Scroll down to bottom of page and click on CareerOneStop News
On next page—you can sign up for newsletter and other communications
Questions?