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Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Alabama, the number of jobs created by the software industry has increased 3.7 percent since 2018.

Total
61,953 jobs
(includes indirect and induced impacts)

Direct
30,446 jobs

Direct Value-Added GDP
$4.6 billion

R&D Investment by Software Companies
$270 million

21% of All Domestic Business R&D in Alabama

Alabama’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.
software.org

Software: Supporting US Through COVID

ALASKA

EMPLOYMENT

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Alaska, the number of jobs created by the software industry has increased 11.9 percent since 2018.

Total

3,213 jobs

(includes indirect and induced impacts)

Direct

1,583 jobs

ECONOMIC IMPACT

Direct Value-Added GDP

$291 million

R&D

R&D Investment by Software Companies

$6 million

30% of All Domestic Business R&D in Alaska

Alaska’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

METHODOLOGY

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**R&D Investment by Software Companies**

$409 million

8.8% of All Domestic Business R&D in Arizona

Arizona’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

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**Software: Supporting US Through COVID**

**ARIZONA**

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Arizona, the number of jobs created by the software industry has increased 7.2 percent since 2018.

**Total**

136,493 jobs

(includes indirect and induced impacts)

**Direct**

57,355 jobs

**ECONOMIC IMPACT**

**Direct Value-Added GDP**

$10.4 billion

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Arizona, the number of jobs created by the software industry has increased 7.2 percent since 2018.

**Total**

136,493 jobs

(includes indirect and induced impacts)

**Direct**

57,355 jobs

**ECONOMIC IMPACT**

**Direct Value-Added GDP**

$10.4 billion

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Arizona, the number of jobs created by the software industry has increased 7.2 percent since 2018.

**Total**

136,493 jobs

(includes indirect and induced impacts)

**Direct**

57,355 jobs

**ECONOMIC IMPACT**

**Direct Value-Added GDP**

$10.4 billion

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Arizona, the number of jobs created by the software industry has increased 7.2 percent since 2018.

**Total**

136,493 jobs

(includes indirect and induced impacts)

**Direct**

57,355 jobs

**ECONOMIC IMPACT**

**Direct Value-Added GDP**

$10.4 billion
In 2020 the Bureau of Economic Analysis, the official source of US economic data, made minor revisions to its 2015–2019 estimates for GDP. These updates are primarily due to improvements in underlying source data provided by various government agencies such as the US Census and Bureau of Labor Statistics (BLS). The BLS updates included similar revisions to employment and wage data for the same period.

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Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Arkansas, the number of jobs created by the software industry has increased 8.9 percent since 2018.

**Total**

17,304 jobs

(includes indirect and induced impacts)

**Direct**

12,680 jobs

Direct Value-Added GDP

$2 billion

Arkansas’ economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

R&D Investment by Software Companies

$105 million

24.8% of All Domestic Business R&D in Arkansas

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Software: Supporting US Through COVID

CALIFORNIA

EMPLOYMENT

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In California, the number of jobs created by the software industry has increased 10.5 percent since 2018.

Total
2,187,298 jobs
(includes indirect and induced impacts)

Direct
618,968 jobs

R&D

R&D Investment by Software Companies
$53.7 billion

41.4% of All Domestic Business R&D in California

California’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

ECONOMIC IMPACT

Direct Value-Added GDP
$269.5 billion

METHODOLOGY

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Software: Supporting US Through COVID

COLORADO

EMPLOYMENT

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Colorado, the number of jobs created by the software industry has increased 10.2 percent since 2018.

Total
203,711 jobs
(includes indirect and induced impacts)

Direct
100,101 jobs

R&D

R&D Investment by Software Companies
$1.1 billion
26.4% of All Domestic Business R&D in Colorado

Colorado's economy and workforce benefit from software's broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry's commitment to R&D ensures continued strong future growth.

ECONOMIC IMPACT

Direct Value-Added GDP
$23.1 billion

METHODOLOGY

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Software: Supporting US Through COVID

**GEORGIA**

Software supports jobs all across today's economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Georgia, the number of jobs created by the software industry has increased 7.9 percent since 2018.

**Total**

212,334 jobs

(includes indirect and induced impacts)

**Direct**

113,425 jobs

**ECONOMICIMPACT**

Direct Value-Added GDP

$23.3 billion

**R&D**

R&D Investment by Software Companies

$1.2 billion\(^1\)

28.3% of All Domestic Business R&D in Georgia\(^2\)

Georgia's economy and workforce benefit from software's broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry's commitment to R&D ensures continued strong future growth.

**METHODOLOGY**

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Software: Supporting US Through COVID

HAWAII

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers.

**Total**

16,499 jobs

(includes indirect and induced impacts)

**Direct**

5,071 jobs

R&D Investment by Software Companies

$24 million

27% of All Domestic Business R&D in Hawaii

Hawaii’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

**Total Value-Added GDP**

$1.2 billion

(includes indirect and induced impacts)

**Direct Value-Added GDP**

$989 million

**ECONOMIC IMPACT**

Hawaii’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

**R&D**

$24 million

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16,499 jobs

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**Direct**

5,071 jobs

**ECONOMIC IMPACT**

Total Value-Added GDP

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**Direct Value-Added GDP**

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**METHODOLOGY**

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**Software: Supporting US Through COVID**

**IDAHO**

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Idaho, the number of jobs created by the software industry has increased 17.1 percent since 2018.

<table>
<thead>
<tr>
<th><strong>EMployment</strong></th>
<th><strong>R&amp;D Investment by Software Companies</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td><strong>$36 million</strong></td>
</tr>
<tr>
<td><strong>24,623 jobs</strong></td>
<td><strong>1.5% of All Domestic Business R&amp;D in Idaho</strong></td>
</tr>
<tr>
<td><strong>Direct</strong></td>
<td><strong>8,183 jobs</strong></td>
</tr>
</tbody>
</table>

**Economic Impact**

<table>
<thead>
<tr>
<th><strong>Total Value-Added GDP</strong></th>
<th><strong>$1.9 billion</strong></th>
<th><strong>(includes indirect and induced impacts)</strong></th>
</tr>
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<tbody>
<tr>
<td><strong>Direct Value-Added GDP</strong></td>
<td><strong>$1.5 billion</strong></td>
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</table>

Idaho’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

**R&D Investment by Software Companies**

- **$36 million**
- **1.5% of All Domestic Business R&D in Idaho**

**ECONOMIC IMPACT**

**Total Value-Added GDP**

- **$1.9 billion**
- **(includes indirect and induced impacts)**

**Direct Value-Added GDP**

- **$1.5 billion**
- **(includes indirect and induced impacts)**

**METHODOLOGY**

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Data sources include The EIU, IMPLAN, National Science Foundation, US Bureau of Economic Analysis, BLS, US Census Bureau.

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Kentucky, the number of jobs created by the software industry has increased 5.6 percent since 2018.

Total

30,735 jobs

(includes indirect and induced impacts)

Direct

20,437 jobs

Direct Value-Added GDP

$2.9 billion

R&D Investment by Software Companies

$72 million

6.1% of All Domestic Business R&D in Kentucky

Kentucky’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.
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Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Louisiana, the number of jobs created by the software industry has increased 5.8 percent since 2018.

**Total**
29,345 jobs
(includes indirect and induced impacts)

**Direct**
14,599 jobs

**Direct Value-Added GDP**
$2.2 billion

**R&D Investment by Software Companies**
$45 million

12.5% of All Domestic Business R&D in Louisiana

Louisiana’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.
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Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Maine, the number of jobs created by the software industry has increased 6.7 percent since 2018.

### Employment

**Total**

19,520 jobs

(includes indirect and induced impacts)

**Direct**

6,961 jobs

### Economic Impact

**Direct Value-Added GDP**

$1.4 billion

Maine’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

**R&D Investment by Software Companies**

$40 million¹

15% of All Domestic Business R&D in Maine²

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Software: Supporting US Through COVID

MASSACHUSETTS

EMployment

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Massachusetts, the number of jobs created by the software industry has increased 5.6 percent since 2018.

Total

477,131 jobs

(includes indirect and induced impacts)

Direct

140,006 jobs

Economic Impact

Total Value-Added GDP

$41.7 billion

(includes indirect and induced impacts)

Direct Value-Added GDP

$40.3 billion

R&D

R&D Investment by Software Companies

$3.5 billion

15.5% of All Domestic Business R&D in Massachusetts

Massachusetts’ economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

Methodology

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Software: Supporting US Through COVID

MICHIGAN

EMPLOYMENT

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers.

**Total**

165,215 jobs

(includes indirect and induced impacts)

**Direct**

62,933 jobs

R&D

R&D Investment by Software Companies

$608 million

3% of All Domestic Business R&D in Michigan

Michigan’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

ECONOMIC IMPACT

Total Value-Added GDP

$16.9 billion

(includes indirect and induced impacts)

Direct Value-Added GDP

$13.6 billion

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www.software.org

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Software: Supporting US Through COVID

MINNESOTA

EMPLOYMENT

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers.

Total
87,024 jobs
(includes indirect and induced impacts)

Direct
50,814 jobs

ECONOMIC IMPACT

Direct Value-Added GDP
$12.5 billion

R&D

R&D Investment by Software Companies
$840 million

12% of All Domestic Business R&D in Minnesota

Minnesota’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

METHODOLOGY

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**Mississippi**

Mississippi’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

**R&D Investment by Software Companies**

$15 million

6% of All Domestic Business R&D in Mississippi

Mississippi’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

**Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Mississippi, the number of jobs created by the software industry has increased 7.3 percent since 2018.**

**Total**

9,141 jobs

(includes indirect and induced impacts)

**Direct**

6,901 jobs

**Direct Value-Added GDP**

$1 billion

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Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers.

**Total**

10,176 jobs

(includes indirect and induced impacts)

**Direct**

5,510 jobs

**ECONOMIC IMPACT**

Direct Value-Added GDP

$889 million

Montana's economy and workforce benefit from software's broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry's commitment to R&D ensures continued strong future growth.

R&D Investment by Software Companies

$42 million

26.8% of All Domestic Business R&D in Montana

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Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In New Jersey, the number of jobs created by the software industry has increased 1 percent since 2018.

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New Jersey’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.
Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In New Mexico, the number of jobs supported by the software industry has increased 22.8 percent since 2018.

**Total**

15,445 jobs

(includes indirect and induced impacts)

**Direct**

7,169 jobs

**R&D Investment by Software Companies**

$75 million

20.1% of All Domestic Business R&D in New Mexico

New Mexico’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

**Direct Value-Added GDP**

$1.2 billion

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Software: Supporting US Through COVID

NORTH CAROLINA

Software supports jobs all across today's economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In North Carolina, the number of jobs created by the software industry has increased 1.3 percent since 2018.

Total
218,283 jobs
(includes indirect and induced impacts)

Direct
90,772 jobs

R&D Investment by Software Companies
$2.1 billion

26.5% of All Domestic Business R&D in North Carolina

North Carolina's economy and workforce benefit from software's broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry's commitment to R&D ensures continued strong future growth.

METHODOLOGY

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**Software: Supporting US Through COVID**

**NORTH DAKOTA**

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In North Dakota, the number of jobs created by the software industry has increased 4.9 percent since 2018.

**Total**

6,093 jobs

(includes indirect and induced impacts)

**Direct**

4,940 jobs

**ECONOMIC IMPACT**

Direct Value-Added GDP

$923 million

**R&D Investment by Software Companies**

$113 million^1

39.8% of All Domestic Business R&D in North Dakota^2

North Dakota’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

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Software: Supporting US Through COVID

OHIO

EMPLOYMENT

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Ohio, the number of jobs created by the software industry has increased 4.1 percent since 2018.

Total

218,210 jobs

(includes indirect and induced impacts)

Direct

86,159 jobs

R&D

R&D Investment by Software Companies

$684 million

10% of All Domestic Business R&D in Ohio

Ohio’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

ECONOMIC IMPACT

Direct Value-Added GDP

$16.3 billion

METHODOLOGY

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Oregon’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

### R&D Investment by Software Companies

- **$1.1 billion**
- **12.7%** of All Domestic Business R&D in Oregon

### Oregon's Economy & Workforce

- **$9.8 billion** Direct Value-Added GDP
- **118,439 jobs** (includes indirect and induced impacts)
- **36,736 jobs** Direct

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Software: Supporting US Through COVID

PENNSYLVANIA

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Pennsylvania, the number of jobs created by the software industry has increased 5 percent since 2018.

Total

303,441 jobs

(includes indirect and induced impacts)

Direct

98,099 jobs

R&D Investment by Software Companies

$1.1 billion

10.8% of All Domestic Business R&D in Pennsylvania

Pennsylvania’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

Total Value-Added GDP

$23.9 billion

(includes indirect and induced impacts)

Direct Value-Added GDP

$21.3 billion

METHODOLOGY

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Software: Supporting US Through COVID

RHODE ISLAND

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers.

**Total**

18,427 jobs

(includes indirect and induced impacts)

**Direct**

8,805 jobs

**R&D Investment by Software Companies**

$19 million¹

2.9% of All Domestic Business R&D in Rhode Island²

Rhode Island’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

**ECONOMIC IMPACT**

Total Value-Added GDP

$1.7 billion

(includes indirect and induced impacts)

Direct Value-Added GDP

$1.5 billion

**METHODOLOGY**

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South Carolina’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

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R&D Investment by Software Companies

$196 million

13.4% of All Domestic Business R&D in South Carolina

South Carolina’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

<table>
<thead>
<tr>
<th>EMPLOYMENT</th>
<th>R&amp;D</th>
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<td><strong>Total</strong></td>
<td><strong>48,970 jobs</strong> (includes indirect and induced impacts)</td>
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<tr>
<td><strong>Direct</strong></td>
<td><strong>25,403 jobs</strong></td>
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**ECONOMIC IMPACT**

Direct Value-Added GDP

$4.4 billion

Applications and web designers to teachers, medical assistants, and construction workers. In South Carolina, the number of jobs created by the software industry has increased 9.5 percent since 2018.

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In South Carolina, the number of jobs created by the software industry has increased 9.5 percent since 2018.
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Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Tennessee, the number of jobs created by the software industry has increased 12.9 percent since 2018.

Total
78,640 jobs
(includes indirect and induced impacts)

Direct
34,544 jobs

Total Value-Added GDP
$10.5 billion
(includes indirect and induced impacts)

Direct Value-Added GDP
$7.1 billion

R&D Investment by Software Companies
$88 million
7.4% of All Domestic Business R&D in Tennessee

Tennessee’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.
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WASHINGTON

Software: Supporting US Through COVID

Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Washington, the number of jobs created by the software industry has increased 14.3 percent since 2018.

**Total**
610,149 jobs
(includes indirect and induced impacts)

**Direct**
175,796 jobs

**Direct Value-Added GDP**
$83.5 billion

R&D Investment by Software Companies
$16.8 billion

56.8% of All Domestic Business R&D in Washington

Washington’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

METHODOLOGY

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Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In West Virginia, the number of jobs created by the software industry has increased 3.4 percent since 2018.

**Total**

11,638 jobs

(includes indirect and induced impacts)

**Direct**

5,567 jobs

**ECONOMIC IMPACT**

Direct Value-Added GDP

$980 million

To estimate the total contributions of the software industry to the US economy, The EIU analyzed the direct contributions and estimated indirect and induced impacts using various economic multipliers:

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West Virginia’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

**R&D Investment by Software Companies**

$29 million

13.9% of All Domestic Business R&D in West Virginia

1 National Science Foundation/National Center for Science and Engineering Statistics and US Census Bureau, Business R&D and Innovation Survey, 2018 industry breakdown. Where data is not available for 2018, the most recent year is used.

2 National Science Foundation/National Center for Science and Engineering Statistics.
In 2020 the Bureau of Economic Analysis, the official source of US economic data, made minor revisions to its 2015–2019 estimates for GDP. These updates are primarily due to improvements in underlying source data provided by various government agencies such as the US Census and Bureau of Labor Statistics (BLS). The BLS updates included similar revisions to employment and wage data for the same period.

To ensure comparability of results over time, The Economist Intelligence Unit (EIU) also has revised its previous 2018 data/estimates to reflect these official updates, resulting in minor adjustments to the results of the 2018 study.

To estimate the total contributions of the software industry to the US economy, The EIU analyzed the direct contributions and estimated indirect and induced impacts using various economic multipliers:

1. **Direct contributions:** the levels of output or employment of the industry in question;
2. **Indirect impacts:** the inter-industry economic activity resulting from the direct contributions (e.g., purchases of inputs); and
3. **Induced impacts:** the additional economic activity supported by spending on goods and services by households whose income was affected by the direct contributions and indirect impacts.

Data sources include The EIU, IMPLAN, National Science Foundation, US Bureau of Economic Analysis, BLS, US Census Bureau.

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Software supports jobs all across today’s economy and all across the country—from computer programmers and web designers to teachers, medical assistants, and construction workers. In Wyoming, the total number of jobs supported by the software industry has increased 1.9 percent since 2018.

**Total**

4,024 jobs

(includes indirect and induced impacts)

**Direct**

1,077 jobs

**ECONOMIC IMPACT**

Direct Value-Added GDP

$362 million

Wyoming’s economy and workforce benefit from software’s broad investment in new technologies. From deriving new value from data analytics in local industries to pushing next-generation innovations like quantum computing, the software industry’s commitment to R&D ensures continued strong future growth.

**R&D Investment by Software Companies**

$7 million¹

20.6% of All Domestic Business R&D in Wyoming²

1 National Science Foundation/National Center for Science and Engineering Statistics and US Census Bureau, Business R&D and Innovation Survey, 2018 industry breakdown. Where data is not available for 2018, the most recent year is used.

2 National Science Foundation/National Center for Science and Engineering Statistics.
In addition to providing the digital infrastructure that enabled our personal and professional lives during the pandemic, the software industry helped create jobs all across the economy and all across the country. In fact, the software industry supports 12.5 million jobs in industries outside software—jobs in every economic sector. The total number of jobs supported by the software industry has increased nearly 6 percent since 2018. This report, from Software.org: the BSA Foundation and conducted in 2021 by The Economist Intelligence Unit (EIU), captures the positive economic impact of the software industry in the United States at the state and national level.

Software played a crucial role in enabling our lives through the pandemic, allowing us to connect socially with friends and family. At the same time, software helped businesses of all sizes to continue their work, underpinning innovation and driving growth in nearly every economic sector. Overall, software’s contribution to total US value-added GDP has grown more than 17 percent since 2018.

**Total Employment**

- **Total:** 15.8 million jobs
- **Direct:** 3.3 million jobs

**GDP**

- **Total Value-Added GDP:** $1.9 trillion (includes indirect and induced impacts)
- **Direct Value-Added GDP:** $933 billion

**Wages**

- **Average Annual Wage for Software Developers:** $114,270

**R&D**

- **R&D Investment by Software Companies:** $103 billion
- **27.4% of All Domestic Business R&D in US**

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1 All data is from 2020 unless otherwise indicated.
2 For definitions of “indirect” and “induced,” see www.software.org/softwarejobs.
5 Ibid.