The Washington Region’s Economy in 2017 and Its Outlook for 2018 and Beyond

Stephen S. Fuller, Ph.D.
Professor and Director
Stephen S. Fuller Institute
Schar School of Policy and Government
George Mason University

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U.S. GDP and Washington MSA GRP
2007 – 2016 – 2022
(Annual % Change)

Sources: U.S. Bureau of Economic Analysis, IHS Markit, The Stephen S. Fuller Institute at the Schar School, GMU
Forecast as of January 2018
Washington Region Coincident Index
(100 = 1996)

Washington Region Leading Index
Month-Over-The-Year Percent Change

Source: The Stephen S. Fuller Institute at the Schar School, GMU
Job Growth and Change in the Washington Region

Washington MSA Job Change 2007 – 2017*

Sources: U.S. Bureau of Labor Statistics (Not Seasonally Adjusted), The Stephen S. Fuller Institute at the Schar School, GMU
*Jan-Nov 2016 to Jan-Nov 2017 Change
Washington MSA Job Change, 2013-2017
Month-Over-the-Year Change

Sources: U.S. Bureau of Labor Statistics (Not Seasonally Adjusted), The Stephen S. Fuller Institute at the Schar School, GMU

Washington MSA Job Change by Sector
2016 – 2017 (avg. through November of each year)

Ranked by Size in 2016
Prof. & Business Services 16.6
Edu. & Health Services 12.6
Federal Govt 0.1
State & Local Govt 6.0
Leisure & Hospitality 13.5
Retail Trade 4.1
Other Services 2.1
Financial Activities 0.4
Construction 2.3
Information -2.9
Transportation & Utilities -0.2
Wholesale Trade 2.0
Manufacturing -1.0

Total = 56,400

Sources: U.S. Bureau of Labor Statistics (Seasonally Adjusted), The Stephen S. Fuller Institute at the Schar School, GMU
## Job Growth in Washington Region
### By Largest Sector and Value Added, 2016-2017
*(jobs in thousands, value added in 2009 $s)*

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Professional &amp; Business Services</td>
<td>737.9</td>
<td>16.6</td>
<td>$142,618</td>
</tr>
<tr>
<td>Education &amp; Health Services</td>
<td>434.6</td>
<td>12.6</td>
<td>65,274</td>
</tr>
<tr>
<td>Federal Government</td>
<td>367.1</td>
<td>0.1</td>
<td>169,612</td>
</tr>
<tr>
<td>Leisure &amp; Hospitality Services</td>
<td>320.6</td>
<td>13.5</td>
<td>43,457</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>1,860.2</strong></td>
<td><strong>42.8</strong></td>
<td><strong>$112,785</strong></td>
</tr>
<tr>
<td><strong>As % of Total</strong></td>
<td><strong>57.6%</strong></td>
<td><strong>75.9%</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3,229.4</strong></td>
<td><strong>56.4</strong></td>
<td><strong>$136,595</strong></td>
</tr>
</tbody>
</table>

*Sources: U.S. Bureau of Labor Statistics (Seasonally Adjusted), IHS Markit, The Stephen S. Fuller Institute at the Schar School, GMU*

*Through November*

## Job Growth in Washington Region
### By Selected Sectors and Value Added, 2016-2017
*(jobs in thousands, value added in 2009 $s)*

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Construction</td>
<td>156.2</td>
<td>2.3</td>
<td>$102,669</td>
</tr>
<tr>
<td>Retail Trade</td>
<td>278.4</td>
<td>4.1</td>
<td>67,946</td>
</tr>
<tr>
<td>Financial Activities</td>
<td>157.0</td>
<td>0.4</td>
<td>586,136</td>
</tr>
<tr>
<td>Other Services</td>
<td>194.7</td>
<td>2.1</td>
<td>80,065</td>
</tr>
<tr>
<td>State &amp; Local Gov't</td>
<td>328.5</td>
<td>6.0</td>
<td>76,391</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>1,114.8</strong></td>
<td><strong>14.8</strong></td>
<td><strong>$150,394</strong></td>
</tr>
<tr>
<td><strong>As % of Total</strong></td>
<td><strong>34.5%</strong></td>
<td><strong>26.3%</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3,229.4</strong></td>
<td><strong>56.4</strong></td>
<td><strong>$136,595</strong></td>
</tr>
</tbody>
</table>

*Sources: U.S. Bureau of Labor Statistics (Seasonally Adjusted), IHS Markit, The Stephen S. Fuller Institute at the Schar School, GMU*

*Through November*
District of Columbia
Annual Job Change, 2002-2017

District of Columbia Job Change by Sector
2016 – 2017 (avg. through November of each year)

Ranked by Size in 2016
- Federal Govt
- Prof. & Business Services
- Edu. & Health Services
- Leisure & Hospitality
- Other Services
- State & Local Govt
- Financial Activities
- Retail Trade
- Information
- Construction
- Wholesale Trade
- Transportation & Utilities
- Manufacturing

Sources: U.S. Bureau of Labor Statistics (Not Seasonally Adjusted), The Stephen S. Fuller Institute at the Schar School, GMU
District of Columbia Job Change
Education & Health Services
Annual Month Over-the-Year, 2016-2017

District of Columbia Job Change
Leisure & Hospitality
Annual Month Over-the-Year, 2016-2017

Sources: U.S. Bureau of Labor Statistics (Not Seasonally Adjusted), The Stephen S. Fuller Institute at the Schar School, GMU
Suburban Maryland
Annual Job Change, 2002-2017

Nov 17 = +17.9

Suburban Maryland Job Change by Sector
2016 – 2017 (avg. through November of each year)

Total = 23,200

Sources: U.S. Bureau of Labor Statistics (Not Seasonally Adjusted), The Stephen S. Fuller Institute at the Schar School, GMU
Northern Virginia
Annual Job Change, 2002-2017

Sources: U.S. Bureau of Labor Statistics (Not Seasonally Adjusted), The Stephen S. Fuller Institute at the Schar School, GMU

Northern Virginia Job Change by Sector
2016 – 2017 (avg. through November of each year)

Ranked by Size in 2016

- Prof. & Business Services: 11.3
- Edu. & Health Services: -0.9
- State & Local Govt: 0.0
- Leisure & Hospitality: 1.4
- Retail Trade: 0.2
- Federal Govt: 0.9
- Other Services: 2.2
- Financial Activities: 2.8
- Construction: -3.1
- Information: 0.1
- Transportation & Utilities: 0.7
- Wholesale Trade: 0.1
- Manufacturing: 0.1

Total = 21,610

Sources: U.S. Bureau of Labor Statistics (Not Seasonally Adjusted), The Stephen S. Fuller Institute at the Schar School, GMU
The Non-Federally Dependent Sectors of the Washington Region’s Economy?

Roadmap Update

The Washington Region’s Advanced Industrial Clusters
Growth Rates of the Washington Region’s Advanced Industrial Clusters
June 2014 to June 2017, Annualized Growth

Sources: U.S. Bureau of Labor Statistics (QCEW), The Stephen S. Fuller Institute at the Schar School, GMU
The Near-Term Performance of the Washington Region’s Economy

Employment Change by Sub-State Area (000s)

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<tbody>
<tr>
<td>D.C.</td>
<td>15.9</td>
<td>13.0</td>
<td>9.6</td>
<td>5.9</td>
<td>4.6</td>
<td>5.0</td>
<td>4.2</td>
<td>5.2</td>
</tr>
<tr>
<td>Sub. MD</td>
<td>12.5</td>
<td>14.4</td>
<td>23.2</td>
<td>15.7</td>
<td>11.0</td>
<td>9.1</td>
<td>7.1</td>
<td>9.3</td>
</tr>
<tr>
<td>No. VA</td>
<td>29.8</td>
<td>31.0</td>
<td>21.6</td>
<td>25.9</td>
<td>22.3</td>
<td>17.6</td>
<td>16.0</td>
<td>17.5</td>
</tr>
<tr>
<td>REGION</td>
<td>57.7</td>
<td>55.6</td>
<td>56.4</td>
<td>47.4</td>
<td>38.2</td>
<td>31.8</td>
<td>27.4</td>
<td>32.1</td>
</tr>
</tbody>
</table>

Average Annual Change 2000-2017 = 39,350

Source: BLS, IHS Economics, The Stephen S. Fuller Institute at the Schar School, GMU (forecast as of September 2017)

NOTE: The regional totals include Jefferson, WV.
## Job Growth in Washington Region
### For Largest Sectors, 2017*-2022 (in 000s)

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Prof. &amp; Business Svcs.</td>
<td>16.6</td>
<td>23.7</td>
<td>25.7</td>
<td>21.4</td>
<td>17.3</td>
<td>20.8</td>
</tr>
<tr>
<td>Edu. &amp; Health Svcs.</td>
<td>12.6</td>
<td>11.2</td>
<td>3.4</td>
<td>2.3</td>
<td>2.7</td>
<td>3.1</td>
</tr>
<tr>
<td>Federal Government</td>
<td>0.1</td>
<td>(5.3)</td>
<td>(3.6)</td>
<td>(0.9)</td>
<td>(2.9)</td>
<td>(1.6)</td>
</tr>
<tr>
<td>Leisure &amp; Hospitality</td>
<td>13.5</td>
<td>3.3</td>
<td>2.1</td>
<td>2.2</td>
<td>2.8</td>
<td>2.1</td>
</tr>
<tr>
<td><strong>Sub-total</strong></td>
<td>42.8</td>
<td>33.0</td>
<td>27.6</td>
<td>24.9</td>
<td>19.9</td>
<td>24.3</td>
</tr>
<tr>
<td><strong>All Sectors</strong></td>
<td>56.4</td>
<td>47.4</td>
<td>38.2</td>
<td>31.8</td>
<td>27.4</td>
<td>32.1</td>
</tr>
<tr>
<td><strong>Big-Four as % of Total</strong></td>
<td>75.9%</td>
<td>69.5%</td>
<td>72.3%</td>
<td>78.3%</td>
<td>72.5%</td>
<td>75.8%</td>
</tr>
</tbody>
</table>

Sources: IHS Markit, The Stephen S. Fuller Institute at the Schar School, GMU *Through November

## Job Growth in Washington Region
### For Other Major Sectors, 2017*-2022 (in 000s)

<table>
<thead>
<tr>
<th>Sector</th>
<th>2017*</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>2.3</td>
<td>5.6</td>
<td>7.0</td>
<td>5.0</td>
<td>3.9</td>
<td>4.1</td>
</tr>
<tr>
<td>Retail Trade</td>
<td>4.1</td>
<td>0.1</td>
<td>(0.0)</td>
<td>(1.7)</td>
<td>(0.7)</td>
<td>(0.6)</td>
</tr>
<tr>
<td>Financial Activities</td>
<td>0.4</td>
<td>2.7</td>
<td>1.3</td>
<td>0.3</td>
<td>0.2</td>
<td>0.3</td>
</tr>
<tr>
<td>Other Services</td>
<td>2.1</td>
<td>(0.1)</td>
<td>(1.3)</td>
<td>(0.8)</td>
<td>(0.1)</td>
<td>(0.4)</td>
</tr>
<tr>
<td>State &amp; Local Government</td>
<td>6.0</td>
<td>4.9</td>
<td>2.1</td>
<td>1.9</td>
<td>2.7</td>
<td>3.2</td>
</tr>
<tr>
<td><strong>Sub-total</strong></td>
<td>14.8</td>
<td>13.2</td>
<td>9.0</td>
<td>4.8</td>
<td>5.9</td>
<td>6.6</td>
</tr>
<tr>
<td><strong>All Sectors</strong></td>
<td>56.4</td>
<td>47.4</td>
<td>38.2</td>
<td>31.8</td>
<td>27.4</td>
<td>32.1</td>
</tr>
<tr>
<td><strong>Other Major Sectors: % of Total</strong></td>
<td>26.3%</td>
<td>27.9%</td>
<td>23.6%</td>
<td>15.0%</td>
<td>21.6%</td>
<td>20.4%</td>
</tr>
</tbody>
</table>

Sources: IHS Markit, The Stephen S. Fuller Institute at the Schar School, GMU *Through November
Washington MSA and Sub-State Areas Economic Outlook (GRP), 2007-2022
(Annual % Change)

Sources: U.S. Bureau of Economic Analysis, IHS Market, The Stephen S. Fuller Institute at the Schar School, GMU
Forecast as of January 2018

Thank You & Questions

For monthly reports on the Washington region’s economic performance go to:

sfullerinstitute.gmu.edu