

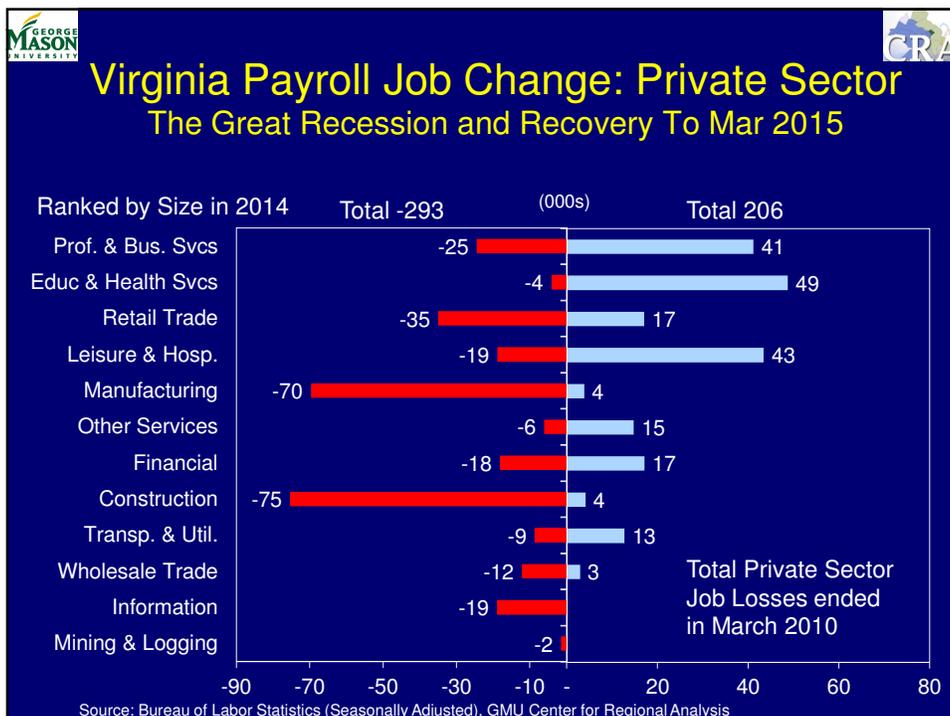



Virginia Early Childhood Foundation Business Leaders Breakfast

Changing Workforce Development Requirements in Virginia's Emerging Economy

Stephen S. Fuller, Ph.D.
 Dwight Schar Faculty Chair and University Professor
 Director, Center for Regional Analysis
 George Mason University

April 29, 2015






The GSP* Effects of Private Sector Job Change in the Commonwealth of Virginia, March 2008-March 2015 (in 2014\$s)

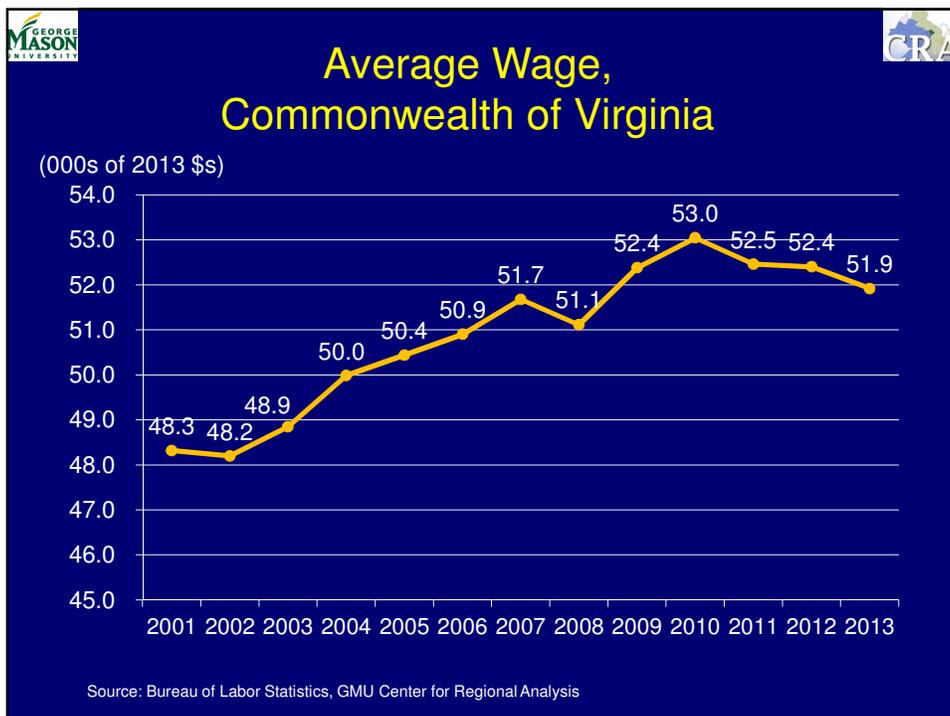
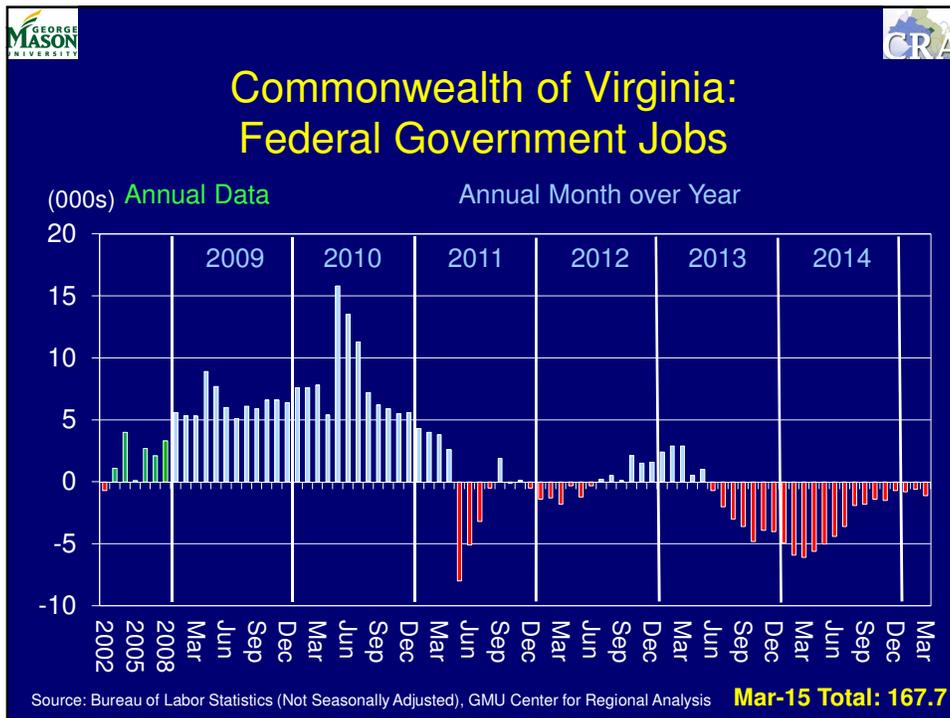
<u>Job Change</u>	<u>Average GSP Value</u>	<u>Total GSP Value</u>
-293,400	\$147,465	- \$43,266,201,000
+ <u>205,500</u>	\$102,802	<u>21,125,716,000</u>
- 87,900		- \$21,082,450,000

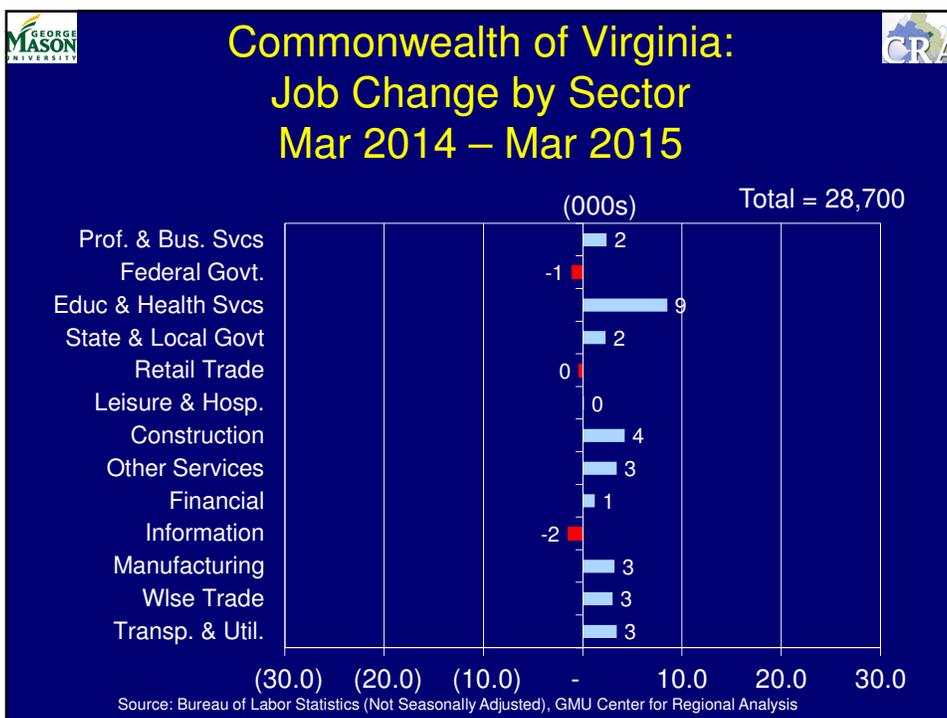
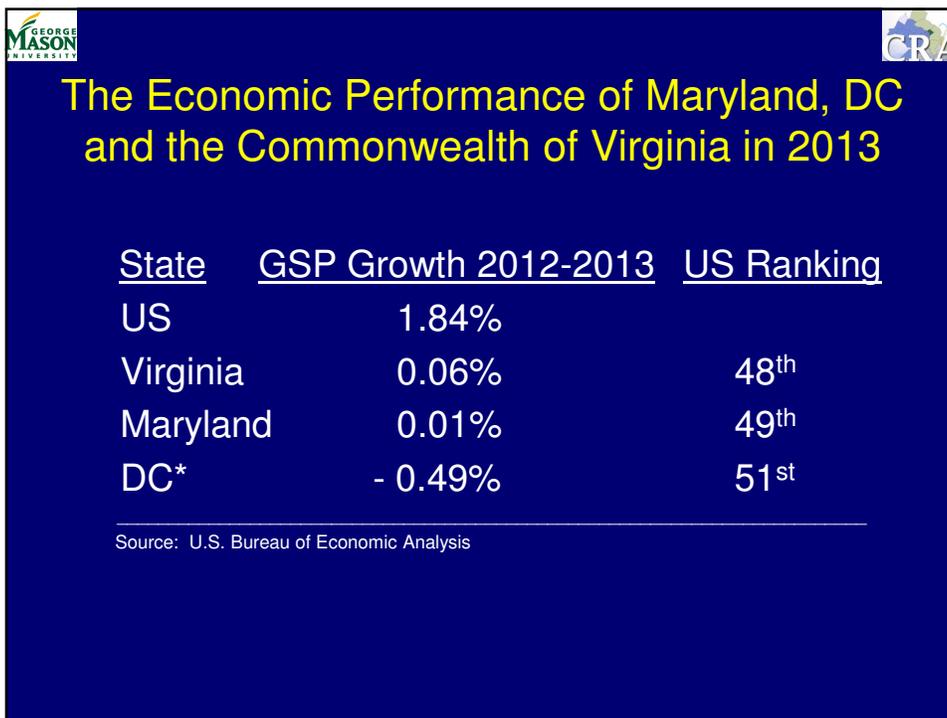
Source: GMU Center for Regional Analysis
*Gross State Product




Summary of Federal Spending Trends in the Commonwealth of Virginia, 2010-2014

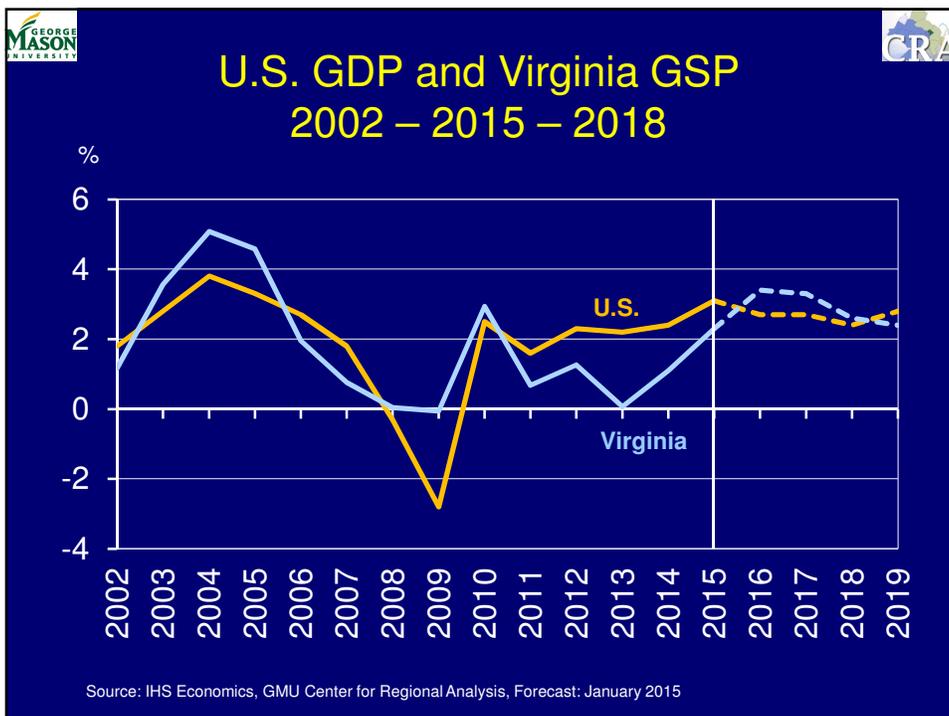
- Federal Procurement Outlays declined \$6.8 billion or 11.6% between FY 2010 and FY 2014.
- Federal employment—civilian and military—has lost 16,760 since peaking 2010 through November 2014, a decline of 5.1%.
- Federal payroll declined by \$1.0 billion between FY 2010 and FY 2014 and will continue to decline as the workforce shrinks and older workers retire and are replaced by younger workers.





GEORGE MASON UNIVERSITY 

Economic Outlook for the Commonwealth of Virginia: 2014-2019






Commonwealth of Virginia Change in Jobs, Summary 2014 – 2019

Year	Total Jobs	Net New (% Change)	Replacement (% Change)	Openings (% Change)
2014	3,658,465			
2014-2019	3,822,424	163,959	450,949	614,908
		4.5%	12.3%	16.8%

Sources: JobsEQ® as of 2014Q4 and GMU Center for Regional Analysis




Commonwealth of Virginia Change in All Jobs by Occupation, 2014 – 2019

<u>Occupation 2-Digit SOC</u>	<u>Net New</u>	<u>%Total</u>	<u>%Change</u>
Healthcare (All)	27,239	16.6	9.8
Construction & Extraction	15,192	9.3	10.0
Computer & Mathematical	12,724	7.8	7.9
Food Prep & Serving Related	12,541	7.6	3.9
Education, Training, & Library	12,049	7.3	4.9
Office & Administrative Support	11,533	7.0	2.0
Personal Care & Service	11,449	7.0	10.0
Sales & Related	11,059	6.7	3.0
Business & Financial Operations	10,163	6.2	4.8
Management	8,404	5.1	4.4
All Others	30,164	18.4	2.9
Totals, All	163,959	100.0	4.5

Sources: JobsEQ® as of 2014Q4 and GMU Center for Regional Analysis

2-Digit to 6-Digit SOC	Net New	%Total	%Change
Healthcare (All)	27,239	16.6	9.8
Registered Nurses	4,275	15.8	7.3
Home Health Aides	4,017	14.9	20.0
Nursing Assistants	2,589	9.6	8.3
Medical Assistants	1,764	6.5	12.2
Licensed Nurses	1,614	6.0	1.0
Construction & Extraction	15,192	9.3	10.0
Construction Laborers	3,275	21.7	12.7
Carpenters	2,297	15.2	12.6
Supervisors of workers	1,577	10.4	11.4
Electricians	1,390	9.2	8.2
Plumbers, Pipe & Steamfitters	987	6.5	8.4
Total, All	163,959	100.0	4.5

Sources: JobsEQ® as of 2014Q4 and GMU Center for Regional Analysis

2-Digit to 6-Digit SOC	Net New	%Total	%Change
Computer & Mathematical	12,724	7.8	7.9
Software Developers, Apps	2,975	23.6	10.0
Computer Sys Analysts	2,514	19.9	11.0
Computer User Support	1,811	14.3	8.6
Software Developers, Sys	1,739	13.8	10.3
Network & Syst Admin	672	5.3	5.0
Food Prep & Serving Related	12,541	7.6	3.9
Combined, incl Fast Food	5,191	41.7	6.1
Cooks, Restaurant	1,885	15.1	6.5
First-Line Supervisors	1,336	10.7	5.8
Waiters & Waitresses	1,326	10.7	2.0
Cooks, Institution & Cafeteria	604	4.9	5.6
Total, All	163,959	100.0	4.5

Sources: JobsEQ® as of 2014Q4 and GMU Center for Regional Analysis

 Commonwealth of Virginia Change in 			
Jobs by Detailed Occupations 2014 – 2019			
<u>2-Digit to 6-Digit SOC</u>	<u>Net New</u>	<u>%Total</u>	<u>%Change</u>
<u>Educ, Train, & Library</u>	<u>12,049</u>	<u>7.3</u>	<u>4.9</u>
Element. School Teachers	2,475	20.6	6.1
Teacher Assistants	1,383	11.5	3.9
Middle School Teachers	1,147	9.6	6.1
Substitute Teachers	882	7.4	4.7
Second. School Teachers	808	6.7	2.8
<u>Office & Admin Support</u>	<u>11,533</u>	<u>7.0</u>	<u>2.0</u>
Secretaries & Assistants*	3,090	28.6	5.1
Customer Service Reps	2,791	25.8	4.3
Bookkeeping, Acct, Clerks	2,001	18.5	4.5
Medical Secretaries	1,957	18.1	15.4
First-Line Supervisors	1,701	15.7	4.7
Total, All	163,959	100.0	4.5

Sources: JobsEQ® as of 2014Q4 and GMU Center for Regional Analysis *Except Legal, Medical, and Executive

 Commonwealth of Virginia 			
Net New Jobs by Educational Requirements			
2014 - 2019			
<u>Educational Requirements</u>	<u>Net New</u>	<u>%Total</u>	<u>%Change</u>
Postgraduate degree	10,537	6.8	6.4
Bachelor's degree	37,662	23.0	5.7
Associate's degree	14,072	8.6	6.8
Post-secondary / College, no award	12,219	7.5	6.6
High School diploma or equivalent	58,840	35.9	4.0
Less than High School	30,629	18.2	4.8
All Levels	163,959	100.0	4.5

Sources: JobsEQ® as of 2014Q4 and GMU Center for Regional Analysis




Commonwealth of Virginia Replacement Jobs by Occupation, 2014 – 2019

<u>Occupation 2-Digit SOC</u>	<u>Replacement</u>	<u>%Total</u>	<u>%Change</u>
Office & Administrative Support	65,659	14.6	11.5
Sales & Related	60,285	13.4	16.1
Food Prep & Serving Related	58,913	13.1	18.4
Healthcare (All)	26,952	6.0	9.7
Transport & Material Moving	25,792	5.7	12.2
Education, Training, & Library	25,375	5.6	10.3
Management	22,895	5.1	12.0
Production Occupations	22,266	4.9	11.9
Business & Financial Operations	22,011	4.9	10.3
Install, Maintenance & Repair	16,491	3.7	11.9
All Others	104,349	23.1	11.3
Totals, All	450,949	100.0	12.3

Sources: JobsEQ® as of 2014Q4 and GMU Center for Regional Analysis




Thank You & Questions

cra.gmu.edu