

## Publicly Available Data

<b>Data Tool</b>	<b>Agency</b>	<b>URL(S)</b>
Bureau of Economic Analysis	BEA	<a href="https://www.bea.gov/">https://www.bea.gov/</a>
U.S. Economic Accounts	BEA	<a href="https://www.bea.gov/itable/">https://www.bea.gov/itable/</a>
Bureau of Labor Statistics	BLS	<a href="https://www.bls.gov/data/">https://www.bls.gov/data/</a>
Current Population Survey "CPS"	BLS	<a href="https://www.bls.gov/cps/">https://www.bls.gov/cps/</a>
Local Area Unemployment Statistics "LAUS"	BLS	<a href="https://www.bls.gov/lau/">https://www.bls.gov/lau/</a>
	VEC	<a href="https://viriniaworks.com/">https://viriniaworks.com/</a>
Occupational Employment and Wage Statistics "OEWS"	BLS	<a href="https://www.bls.gov/oes/">https://www.bls.gov/oes/</a>
Quarterly Census of Employment and Wages "QCEW"	BLS	<a href="https://www.bls.gov/cew/">https://www.bls.gov/cew/</a>
American Community Survey "ACS"	Census	<a href="https://www.census.gov/programs-surveys/acs">https://www.census.gov/programs-surveys/acs</a>
		<a href="https://data.census.gov/advanced">https://data.census.gov/advanced</a>
Decennial Census	Census	<a href="https://www.census.gov/programs-surveys/decennial-census.html">https://www.census.gov/programs-surveys/decennial-census.html</a>
		<a href="https://data.census.gov/advanced">https://data.census.gov/advanced</a>
Economic Census	Census	<a href="https://www.census.gov/programs-surveys/economic-census.html">https://www.census.gov/programs-surveys/economic-census.html</a>
Local Employment Dynamics "LED"	Census	<a href="https://lehd.ces.census.gov/">https://lehd.ces.census.gov/</a>
		<a href="https://ledextract.ces.census.gov/">https://ledextract.ces.census.gov/</a>
On the Map	Census	<a href="https://onthemap.ces.census.gov/">https://onthemap.ces.census.gov/</a>
Occupational Information Network "O*NET"	DOLETA	<a href="https://www.onetonline.org/">https://www.onetonline.org/</a>
Integrated Postsecondary Education Data System "IPEDS"	NCES	<a href="https://nces.ed.gov/ipeds/">https://nces.ed.gov/ipeds/</a>
State Higher Education Department "SCHEV"	SCHEV	<a href="https://www.schev.edu/home">https://www.schev.edu/home</a>
		<a href="https://www.schev.edu/research-publications/reports-and-publications">https://www.schev.edu/research-publications/reports-and-publications</a>
State Education Department	VA DOE	<a href="https://www.doe.virginia.gov/data-policy-funding/data-reports">https://www.doe.virginia.gov/data-policy-funding/data-reports</a>
Virginia Employment Commission - State LMI Projections	VEC	<a href="https://viriniaworks.com/occupational-projections">https://viriniaworks.com/occupational-projections</a>
<b>Glossary</b>		
BEA: Bureau of Economic Analysis		SCHEV: State Council of Higher Education for Virginia
BLS: Bureau of Labor Statistics		USDOLETA: US Department of Labor/Employment and Training Administration
LMI: Labor Market Information		VA DOE: Virginia Dept of Education
NCES: National Center for Educational Statistics		VEC: Virginia Employment Commission

## Analyzing and Developing Workforce Studies

### Common Data Elements and Sources

Measure	Description	Source
<b>Labor – The Supply Side – Demographics &amp; Income</b>		
<b>Population</b>	Total population historical, current and projections.	American Community Survey (Census)
<b>Age</b>	Detailed age breakdown.	American Community Survey (Census)
<b>Diversity</b>	Population by race	American Community Survey (Census)
<b>Poverty</b>	Children and elderly living in poverty and trends.	American Community Survey (Census)
	Number in poverty historical and current.	American Community Survey (Census)
	Poverty rates historical and current.	American Community Survey (Census)
<b>Educational Attainment</b>	Educational attainment	American Community Survey (Census)
<b>Income</b>	Current median earnings by 2-digit Standard Occupational Classification (SOC) code.	Occupational Employment Survey (BLS)
	Median earnings full-time year-round workers.	U.S. Economic Accounts (BEA)
	Real per capita income historical and current.	U.S. Economic Accounts (BEA)
<b>Commuting Patterns</b>	Flow within the region.	Local Employment Dynamics (Census)
	Total job flow into, out of region	Local Employment Dynamics (Census)
<b>Labor – The Supply Side – Labor Force &amp; Unemployment</b>		
<b>Labor force</b>	Total labor force historical and current.	Current Population Survey (BLS)/American Community Survey (Census)
	Employment to population ratio historical and current.	Current Population Survey (BLS)/American Community Survey (Census)
	Labor force participation rate historical and current.	Current Population Survey (BLS)/American Community Survey (Census)
	Prime labor force participation rate historical and current.	Current Population Survey (BLS)/American Community Survey (Census)
<b>Unemployment</b>	Unemployment rate historical and current.	Local Area Unemployment Statistics (BLS)
<b>Labor – The Supply Side – Emerging Workforce – Student Profile</b>		
<b>Diversity</b>	K-12 enrollment by race and trends.	State Education Department
<b>Enrollment</b>	K-12 enrollment and trends.	State Education Department
<b>Poverty</b>	Free and Reduced Lunch Participation Rates and trends.	State Education Department

## Analyzing and Developing Workforce Studies Common Data Elements and Sources

Measure	Description	Source
<b>Labor – The Supply Side – Emerging Workforce – K-12 Academic Performance</b>		
Drop-out	Drop-out rates and trends.	State Education Department
Graduation	Cohort on-time completion rates and trends.	State Education Department
	Number of high school graduates and trends.	State Education Department
Standardized tests	Pass rates for 8th grade and trends.	State Education Department
<b>Labor – The Supply Side – Emerging Workforce – Investments In K-12 Education</b>		
Pupil expenditures	Real Expenditures per Student and trends.	State Education Department
Student-teacher ratios	Student/Teacher Ratio for 8th - 12th Grade and trends.	State Education Department
	Student/Teacher Ratio for Kindergarten - 7th Grade and trends.	State Education Department
Teacher credentials	Percentage of teachers by bachelors and graduate degrees.	State Education Department
Teacher salaries	Inflation-Adjusted Teacher Salaries and trends.	State Education Department
<b>Labor – The Supply Side – Emerging Workforce - Higher Education</b>		
Post-secondary education	Graduates from public universities and community colleges and trends.	Integrated Postsecondary Education Data System (NCES)/State Higher Education Department
	Higher education completions by 2-digit Classification of Instructional Programs (CIP) code.	Integrated Postsecondary Education Data System (NCES)/State Higher Education Department
	Higher education graduates by degree type, 2014-2015, regional public Institutions.	Integrated Postsecondary Education Data System (NCES)/State Higher Education Department
<b>Employment – The Demand Side</b>		
Employment trends	Employment percentage change from year ago and trends.	Quarterly Census of Employment and Wages (BLS)
Occupational Employment	Occupations ranked by 5 year growth #	Occupational Employment Survey (BLS)
	Occupations ranked by 5 year growth %	Occupational Employment Survey (BLS)
	Occupations ranked by annual openings #	Occupational Employment Survey (BLS)
	Occupations ranked by current number of employees.	Occupational Employment Survey (BLS)
Wage and salary trends	Inflation-adjusted average annual wages.	Occupational Employment Survey (BLS)
	Wage distribution by percent employed.	Occupational Employment Survey (BLS)
Industry Employment	Industry sector employment historical and current.	Quarterly Census of Employment and Wages (BLS)
	Largest employers	Regional Economic Development/State/D&B/Info USA, etc

## Analyzing and Developing Workforce Studies Common Data Elements and Sources

Measure	Description	Source
<b>Employment – The Demand Side – Cluster Analysis</b>		
<b>Industry Clusters</b>	Annual openings and field of study completions.	Occupational Employment Survey/Integrated Postsecondary Education
	Cluster employment by sector historical, current and projected.	Analysis of Quarterly Census of Employment and Wages and Occupational Employment Survey data
	Current workforce educational attainment compared against current educational attainment required for all current jobs and annual openings.	American Community Survey/Occupational Employment Survey
	Largest occupations by total employment.	Analysis of Occupational Employment Survey (BLS) data
	Supply Chain Analysis	Consultant or Internally Developed based on data from various sources – Bureau of Economic Analysis I-O Tables, Industry Interviews, etc.
	Surplus or gap in annual openings less regional completions by Standard Occupational Classification (SOC)	Analysis of Integrated Postsecondary Education Data System and Occupational Employment Survey
	Surplus or gap in annual openings less regional Industry Clusters	Analysis of Integrated Postsecondary Education Data System and Occupational Employment Survey
<b>Employment – The Demand Side – Workforce Gap Analysis</b>		
<b>Workforce Gaps</b>	Qualitative Information from industry members.	Interviews/Surveys/Focus Groups (Report Preparer)
	Current workforce educational attainment compare to educational attainment required for O*NET Career Clusters	Occupational Employment Survey (BLS)/O*NET
	Surplus or gap in annual openings less regional completions for each SOC.	State LMI Projections