



New River/Mount Rogers Skills Gap Analysis: County Data Profiles

Montgomery County, Virginia

Prepared by: Virginia Tech Office of Economic Development

Part A: Economic and Demographic Data

Table I: Population, Employment, and Educational Attainment Trendsⁱ

Population Data		
Population	93,739	
Population between the Ages of 25 and 64	39,552	
Population Change (2002-2012)	9,460	
Employment and Income Data		
Population Participating in the Labor Force	48,161 (51.4%)	
Unemployment Rate	6.4%	
Per Capita Income	\$28,668	
Education Attainment (Population Est.)		
Less than 9 th Grade	1,876	
9 th -12 th Grade, No Diploma	3,348	
High School Graduate	11,538	
Some College, no degree	8,523	
Associate's Degree	3,491	
Bachelor's Degree	9,784	
Graduate or Professional Degree	9,970	
Employment by Educational Attainment (25-64 Years Old)		
	<i>Estimated Number in Labor Force</i>	<i>Percentage Employed</i>
Less than High School Graduate	1,565	89.9%
High School Graduate	7,198	94.5%
Some College or Associate's Degree	8,820	97.1%
Bachelor's Degree or Higher	14,746	97.7%

Part B: Industry Data

Figure I: Industry Employment Trends (NAICS 2-Digit)ⁱⁱ

LQ: >1= Above National Average Concentration of Employment

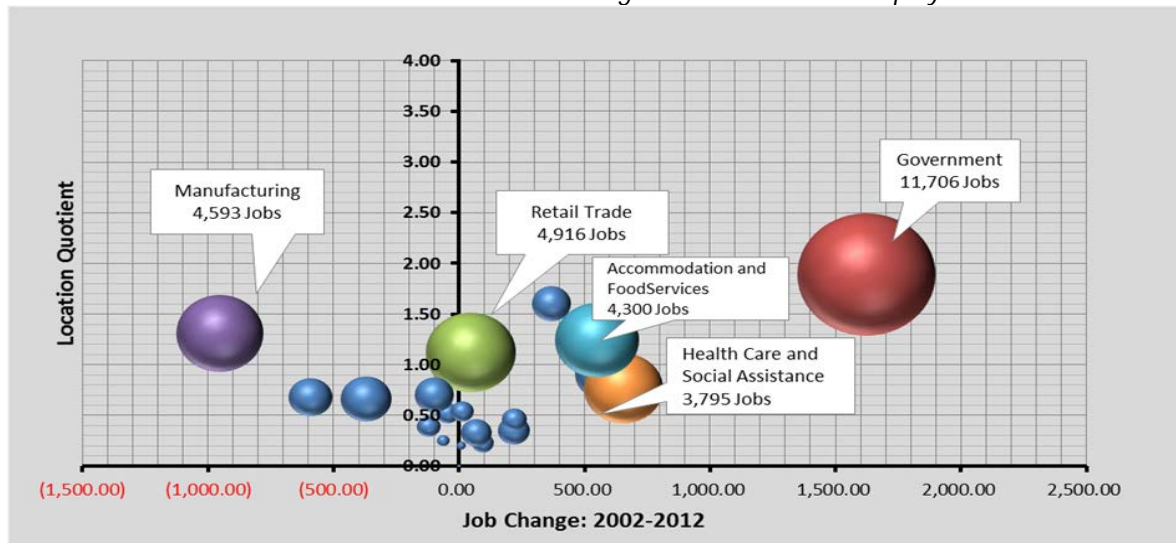


Table II: Top Ten Industries for Employment, by NAICS 3-Digitⁱⁱⁱ

	2002 Jobs	2012 Jobs	Change Jobs (2002-2012)	% of Change (2002-2012)	Average Wages, Salaries, & Proprietor Earnings
State Government	6,127	7,288	1,161	19%	\$39,324
Local Government	3,711	4,192	481	13%	\$32,154
Food Services and Drinking Places	3,361	3,862	501	15%	\$13,266
Professional, Scientific, and Technical Services	1,538	2,120	582	38%	\$62,711
Administrative and Support Services	1,764	1,449	(-315)	(-18%)	\$26,665
Hospitals (Private)	1,315	1,355	40	3%	\$44,747
Ambulatory Health Care Services	911	1,243	332	36%	\$56,362
Electrical Equipment, Appliance, and Component Mfg.	1,512	1,153	(-359)	(-24%)	\$56,784
General Merchandise Stores	961	1,019	58	6%	\$17,909
Furniture and Related Product Mfg.	1,077	889	(-188)	(-17%)	\$29,338

Table III: Worker Age Demographics (Manufacturing and Health Care and Social Assistance)^{iv}

	Manufacturing		Health Care & Social Assistance	
	Jobs (2013)	% of Total	Jobs (2013)	% of Total
14-18 Years	12	.3%	31	.7%
19-21 Years	143	3.2%	187	4.6%
22-24 Years	183	4.0%	259	6.3%
25-34 Years	713	15.7%	918	22.5%
35-44 Years	1,079	23.8%	1,016	24.8%
45-54 Years	1,284	28.3%	901	22.0%
55-64 Years	950	21.0%	635	15.5%
65+ Years	166	3.7%	144	3.5%

Part C: Occupation Data

Table IV: Top Ten Occupations (SOC 5-Digit)^v

Occupation		Jobs (2012)	Job Change (2002-2012)	% of All Jobs in County	Median Hourly Earnings (Region)	Educational Attainment (National)
1.	Postsecondary Teachers	2,478	503	6.39%	\$33.10	Doctoral degree
2.	Retail Salespersons	1,441	75	3.72%	\$9.99	Short-term on-the-job training
3.	Combined Food Preparation and Serving Workers, Including Fast Food	1,440	242	3.71%	\$8.73	Short-term on-the-job training
4.	Teachers and Instructors, All Other	1,326	339	3.42%	\$32.20	Bachelor's degree
5.	Cashiers	1,185	(-3)	3.06%	\$8.63	Short-term on-the-job training
6.	Waiters and Waitresses	939	104	2.42%	\$9.16	Short-term on-the-job training
7.	Office Clerks, General	891	67	2.30%	\$11.61	Short-term on-the-job training
8.	Registered Nurses	624	92	1.61%	\$26.73	Associate's degree
9.	Bookkeeping, Accounting, and Auditing Clerks	604	45	1.56%	\$16.01	Moderate-term on-the-job training
10.	Stock Clerks and Order Fillers	578	15	1.49%	\$9.57	Short-term on-the-job training
	Total for Top 10 Jobs	11,506	1,479	29.67%	**	**
	Total for County (All Jobs)	38,778	2,168	**	\$18.83	**

Table V: Industry Staffing Patterns for County's Top Ten Occupations for Employment (2012)^{vi}

Occupation	Jobs (2012)	Top Regional Subsectors for Occupation Employment		
		Sector (NAICS 3-Digit)	% of Occupation Employed in this Industry Subsector	% of Jobs in Industry Sector
1. Postsecondary Teachers	2,478	State Government	97.6%	33.0%
		Educational Services (Private)	2.3%	16.3%
		Hospitals (Private)	0.0%	0.1%
2. Retail Salespersons	1,441	Clothing and Clothing Accessories Stores	21.2%	70.1%
		General Merchandise Stores	19.2%	26.2%
		Sporting Goods, Hobby, Book, and Music Stores	16.0%	51.5%
3. Combined Food Preparation and Serving Workers, including Fast Food	1,440	Food Services and Drinking Places	83.0%	31.0%
		Food and Beverage Stores	5.0%	8.5%
		Local Government	4.7%	1.7%
4. Teachers and Instructors, All Other	1,326	State Government	66.0%	11.6%
		Local Government	20.3%	6.5%
		Educational Services (Private)	7.2%	26.0%
5. Cashiers	1,185	Food and Beverage Stores	26.6%	37.8%
		General Merchandise Stores	20.1%	22.5%
		Gasoline Stations	16.0%	68.8%
6. Waiters and Waitresses	939	Food Services and Drinking Places	92.5%	22.4%
		Accommodation	2.6%	5.7%
		Amusement, Gambling, and Recreation Industries	2.0%	7.0%
7. Office Clerks, General	891	State Government	38.9%	4.8%
		Local Government	8.3%	1.8%
		Professional, Scientific, and Technical Services	6.5%	2.6%
8. Registered Nurses	624	Hospitals (Private)	61.3%	28.4%
		Ambulatory Health Care Services	15.1%	7.5%
		State Government	12.6%	1.1%
9. Bookkeeping, Accounting, and Auditing Clerks	604	State Government	14.0%	1.1%
		Professional, Scientific, and Technical Services	10.4%	2.8%
		Real Estate	7.3%	5.0%
10. Stock Clerks and Order Fillers	578	General Merchandise Stores	35.0%	19.2%
		Food and Beverage Stores	24.5%	17.1%
		Clothing and Clothing Accessories Stores	4.1%	5.5%

Part D: Education Data

Section I: Primary and Secondary School Data

Table VI: SOL Pass/Fail Rates for Elementary and Middle School – Montgomery County (AY: 2012-2013) (All)^{vii}

Grade	English: Reading		English: Writing		Mathematics		Science		History and Social Science	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
Grade 3	73	27	N/A	N/A	68	32	84	16	85	15
<i>Virginia Average</i>	72	28	N/A	N/A	65	35	84	16	87	13
Grade 5	78	22	79	21	79	21	77	23	<	<
<i>Virginia Average</i>	73	27	71	29	69	31	75	25	82	18
Grade 8	73	27	68	32	33	68	80	20	100	0
<i>Virginia Average</i>	71	29	70	30	61	39	76	24	81	19

Table VII: SOL Pass/Fail Rates, by High School (AY: 2012-2013)^{viii}

	Virginia		Montgomery County		Auburn High School		Blacksburg High School		Christiansburg High School		Eastern Montgomery High School	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
English Reading	89	11	88	12	82	18	91	9	87	13	91	9
English Writing	87	13	87	13	83	17	91	9	85	15	84	16
Algebra I	76	24	69	31	62	38	67	33	37	63	33	67
Geometry I	76	24	74	26	61	39	86	14	54	46	62	38
Algebra II	76	24	69	31	74	26	67	33	72	28	56	44
Biology	83	17	83	17	82	18	90	10	80	20	73	27
Chemistry	86	14	90	10	85	15	89	11	94	6	94	6
Earth Science	83	17	81	19	78	22	89	11	78	22	81	19

Table VIII: Four-Year Virginia On-Time Graduation Rate (AY: 2012-2013)^{ix}

	Cohort Size	Advanced Studies Diploma	Standard Diploma	Modified Standard Diploma	Special Diploma	General Achievement Diploma	Virginia On-Time Graduation Rate
All Students	748	362	282	<	20	0	89.4
<i>Economically Disadvantaged anytime</i>	292	66	143	<	14	0	77.7
<i>Homeless anytime</i>	29	<	<	0	<	0	55.2
Virginia On-Time Graduation Rate (All Students)							89.1%

Table IX: Trends for Program Completion (AY: 2010-2011 to AY: 2012-2013)^x

Count/ Percentage	2010-2011	2011-2012	2012-2013	Virginia (%) for 2011-2012*
	Advanced Diploma	366 / 54.46%	359 / 55.06%	363 / 50.77%
GED/ISAEP	<	<	<	2.02%
Modified Standard Diploma	<	12 / 1.84%	16 / 2.24%	2.01%
Special Diploma	20 / 2.98%	22 / 3.37%	11 / 1.54%	2.56%
Standard Diploma	<	11 / 1.69%	<	39.77%

Table X: Advanced Program Information (AY: 2010-2011 to AY: 2012-2013)^{xi}

Program type	2010-2011	2011-2012	2012-2013	Virginia (%) for 2011-2012
Advanced Placement Course Enrollment	519 / 18.26%	490 / 17.1%	586 / 19.76%	20.38%
Dual Enrollment Courses Taken	619 / 21.77%	651 / 22.71%	693 / 23.37%	6.73%

Table XI: Career and Technical Education Trends (AY 2010-2011 to AY: 2012-2013)^{xii}

Count		2010-2011	2011-2012	2012-2013
NOCTI Assessments	Montgomery County	17	24	15
	State	4,664	4,250	4,577
State Licensures	Montgomery County	4	1	1
	State	880	707	673
Industry Certification	Montgomery County	20	29	14
	State	28,586	32,582	39,658
Workplace Readiness	Montgomery County	0	10	25
	State	2,589	13,653	21,312
Total Credentials Earned	Montgomery County	41	64	55
	State	36,719	51,192	66,220
Students Earning One or More Credentials	Montgomery County	38	59	50
	State	30,613	42,218	56,247
CTE Completers	Montgomery County	59	50	70
	State	41,329	41,677	40,761

Table XII: Trends for Teacher Education Attainment, by %^{xiii}

	2010-2011	2011-2012	2012-2013
Montgomery County			
Bachelor's Degree	53%	51%	55%
Master's Degree	46%	48%	44%
Doctoral Degree	1%	1%	1%
Virginia			
Bachelor's Degree	41%	42%	42%
Master's Degree	56%	55%	55%
Doctoral Degree	1%	1%	1%

Section II: Postsecondary Education Completion Data

Table XIII: Completions at Regional Community College Institutions During AY: 2012-2013, by Student County/City of Origin (Montgomery County)^{xiv}

Type of Credential	# of Completions for Students of City of Montgomery County Origin			
	New River Community College	Wytheville Community College	Virginia Highlands College	All Public 2-Year in Virginia
Less than 1 Year	47	8	0	<i>Data Update Forthcoming</i>
1-2 Years	25	0	0	
Associate's (Bachelor's Credit)	89	0	1	
Associate's (Technical Credit)	74	5	0	
# of County/City Students Transferring from Institution to a Public/Private Non-Profit Institution in Virginia	<i>Data Update Forthcoming</i>			

Table XIV: Completions at Regional 4-Year Public and Non-Profit Institutions During AY: 2012-2013, by Student County/City of Origin (Montgomery County)^{xv}

Type of Credential	Virginia Tech	Radford University	Emory and Henry College (2011-2012 Only)	Virginia Intermont College	All Virginia Public 4+ Year Institutions	All Virginia Private Non-Profit 4+ Year Institutions
Associate's Degree	4	N/A	N/A	N/A	<i>Data Update Forthcoming</i>	
Bachelor's 4-Year	332	134	1	0	505	40
Bachelor's 5-Year	6	N/A	N/A	N/A	6	N/A
Master's Degree	74	54	0	N/A	<i>Data Update Forthcoming</i>	
Doctoral Degree	26	N/A	N/A	N/A		

ⁱ Source: U.S. Census Bureau. American Community Survey. 5-Year Estimates (2007-2011).

ⁱⁱ Source: emsiAnalyst. 2013.4 Class of Worker Data. QCEW.

ⁱⁱⁱ Source: emsiAnalyst. 2013.4 Class of Worker Data. QCEW.

^{iv} Source: emsiAnalyst. 2013.4 Class of Worker Data. QCEW.

^v Source: emsiAnalyst. 2013.4 Class of Worker Data. QCEW.

^{vi} Source: emsiAnalyst. 2013.4 Class of Worker Data. QCEW.

^{vii} Source: Virginia Department of Education School Report Cards.

^{viii} Source: Virginia Department of Education School Report Cards.

^{ix} Source: Virginia Department of Education School Report Cards.

^x Source: Virginia Department of Education School Report Cards. Data not available for AY: 2012-2013.

^{xi} Source: Virginia Department of Education School Report Cards. Data not available for AY: 2012-2013.

^{xii} Source: Virginia Department of Education School Report Cards.

^{xiii} Source: Virginia Department of Education School Report Cards.

^{xiv} Source: State Council of Higher Education for Virginia. Virginia College Navigator. Data for Localities and College to University.

^{xv} Source: State Council of Higher Education for Virginia. Virginia College Navigator. Data for Localities and College to University.