

# County Profiles: Manufacturing

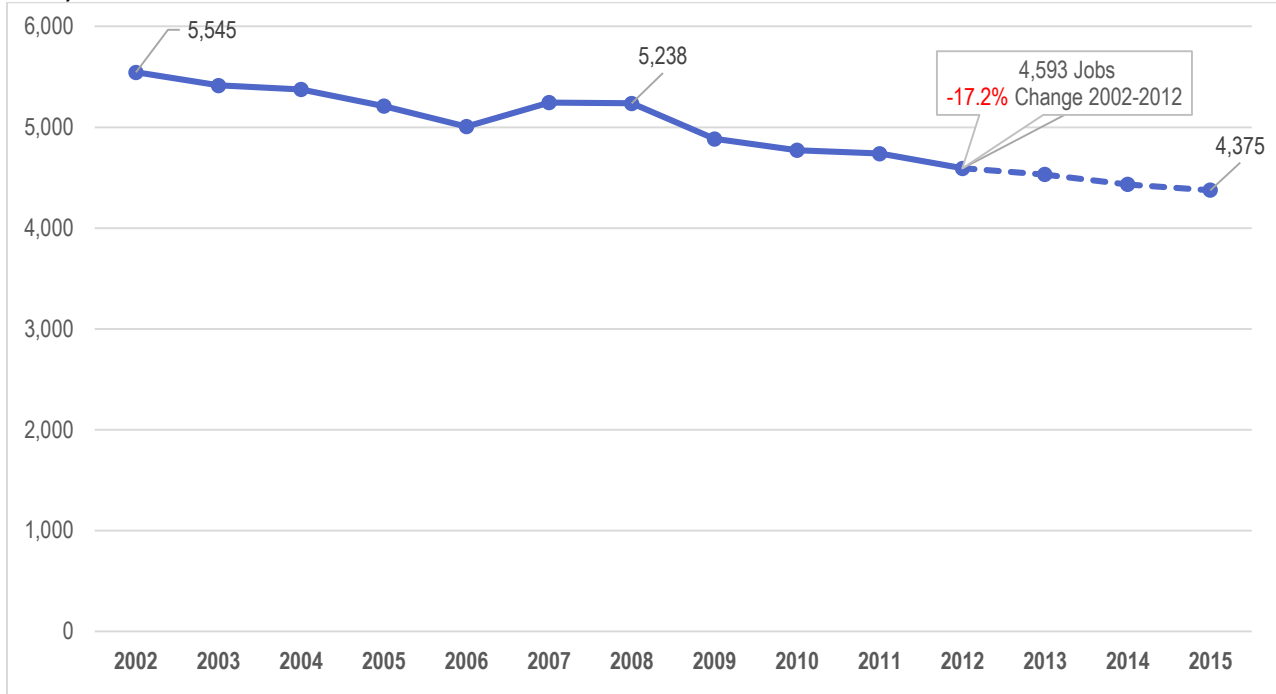


## Montgomery County, Virginia

Supplemental Reference Materials  
Supporting:  
**New River/ Mount Rogers Skills Gap  
Analysis**

*Prepared by:  
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Development*

**Manufacturing Employment (NAICS 31-33): Montgomery County, VA, 2002-2012 (with projections to 2015)<sup>i</sup>**



**Manufacturing Employment (NAICS 31-33): Montgomery County vs. Neighboring Jurisdictions/Regions<sup>ii</sup>**

	2002 Jobs	2008 Jobs	2012 Jobs	Change 2002-2012 (#)	Change 2002-2012 (%)
<b>Montgomery County</b>	<b>5,545</b>	<b>5,238</b>	<b>4,593</b>	<b>(952)</b>	<b>(17.2%)</b>
New River/Mount Rogers WIA 2	34,178	28,241	25,440	(8,738)	(25.6%)
Bluefield WV-VA, MSA	3,232	3,130	2,785	(447)	(13.8%)
Roanoke, VA MSA	19,196	16,719	14,758	(4,438)	(23.1%)
Kingsport-Bristol-Bristol, VA/TN (Minus WIA 2 Jurisdictions)	20,848	17,607	16,416	(4,432)	(21.3%)
Virginia	321,016	264,948	231,033	(89,983)	(28.0%)
United States	15,209,748	13,382,696	11,905,319	(3,304,429)	(21.7%)

**Manufacturing Employment: Montgomery County, VA, by NAICS 3-Digit Industry<sup>iii</sup>**

*LQ>1 = Above National Average Concentration of Employment*

NAICS Code	Description	2008 Jobs	2009 Jobs	2010 Jobs	2011 Jobs	2012 Jobs	Change: 2008-2012	2012 National Location Quotient
335	Electrical Equipment, Appliance, and Component Manufacturing	1,306	1,339	1,302	1,231	1,153	(153)	10.50
337	Furniture and Related Product Manufacturing	1,267	1,094	1,053	925	889	(378)	8.56
336	Transportation Equipment Manufacturing	724	630	679	798	775	51	1.80
325	Chemical Manufacturing	391	394	403	456	506	115	2.19
327	Nonmetallic Mineral Product Manufacturing	403	402	367	386	338	(65)	3.13
311	Food Manufacturing	304	274	262	293	271	(33)	0.63
321	Wood Product Manufacturing	276	253	240	232	226	(50)	2.28
339	Miscellaneous Manufacturing	315	258	203	193	193	(122)	1.14
334	Computer and Electronic Product Manufacturing	74	72	72	61	73	(1)	0.23
322	Paper Manufacturing	25	35	37	58	60	35	0.54
333	Machinery Manufacturing	38	34	40	39	45	7	0.14
323	Printing and Related Support Activities	34	31	34	32	34	0	0.25
332	Fabricated Metal Product Manufacturing	29	29	28	27	26	(3)	0.06
331	Primary Metal Manufacturing	<10	<10	<10	<10	<10	<10	--
313	Textile Mills	48	39	54	0	<10	--	--
312	Beverage and Tobacco Product Manufacturing	0	0	0	0	<10	--	--
314	Textile Product Mills	<10	<10	0	0	0	--	--
<b>Total</b>		<b>5,238</b>	<b>4,886</b>	<b>4,772</b>	<b>4,739</b>	<b>4,593</b>	<b>(645)</b>	

**Manufacturing Earnings, by NAICS 3-Digit Industry: Montgomery County, VA<sup>iv</sup>**

NAICS Code	Description	2013 Average Earnings Per Job (Montgomery)	2013 Average Earnings Per Job (New River/Mount Rogers WIA)	2013 Average Earnings Per Job (Bluefield VA-WV, MSA)	2013 Average Earnings Per Job (Roanoke, VA MSA)	2013 Average Earnings Per Job (Virginia)	2013 Average Earnings Per Job (United States)
335	Electrical Equipment, Appliance, and Component Manufacturing	\$78,060	\$74,867	\$52,755	\$75,364	\$78,739	\$85,017
337	Furniture and Related Product Manufacturing	\$36,230	\$37,127	--	\$36,724	\$43,443	\$49,025
336	Transportation Equipment Manufacturing	\$78,509	\$61,329	\$63,682	\$71,668	\$77,640	\$87,081
325	Chemical Manufacturing	\$115,764	\$77,672	\$74,937	\$79,823	\$95,670	\$117,339
327	Nonmetallic Mineral Product Manufacturing	\$56,880	\$49,709	\$57,542	\$65,730	\$55,363	\$64,593
311	Food Manufacturing	\$59,355	\$49,448	--	\$49,094	\$47,473	\$52,522
321	Wood Product Manufacturing	\$42,756	\$36,199	\$39,217	\$50,020	\$45,046	\$48,510
339	Miscellaneous Manufacturing	\$52,001	\$46,827	\$47,408	\$36,352	\$71,120	\$82,536
334	Computer and Electronic Product Manufacturing	\$73,021	\$67,258	\$35,733	\$68,939	\$105,679	\$119,790
322	Paper Manufacturing	\$53,189	\$44,875	--	\$55,780	\$76,814	\$77,583
333	Machinery Manufacturing	\$66,305	\$56,073	\$65,276	\$54,713	\$72,122	\$79,734
323	Printing and Related Support Activities	\$26,252	\$48,506	\$30,430	\$33,494	\$51,949	\$55,221
332	Fabricated Metal Product Manufacturing	\$41,281	\$53,921	\$52,087	\$45,762	\$66,359	\$63,732
331	Primary Metal Manufacturing	--	\$59,173	\$54,064	--	\$75,257	\$79,745
313	Textile Mills	--	\$32,244	--	--	\$40,799	\$48,944
312	Beverage and Tobacco Product Manufacturing	--	\$62,515	\$53,501	\$48,584	\$88,801	\$77,328
314	Textile Product Mills	--	\$42,150	\$27,967	--	\$39,788	\$46,010
<b>Total</b>		<b>\$67,428</b>	<b>\$57,919</b>	<b>\$54,859</b>	<b>\$59,684</b>	<b>\$68,357</b>	<b>\$77,540</b>

**Manufacturing Age Demographics, by NAICS 3-Digit Industry: Montgomery County, VA<sup>v</sup> -- 2013**

NAICS Code	Description	Age 14-18	Age 19-21	Age 22-24	Age 25-34	Age 35-44	Age 45-54	Age 55-64	Age 65-99
335	Electrical Equipment, Appliance, and Component Manufacturing	0	<10	32	152	238	309	303	56
337	Furniture and Related Product Manufacturing	<10	38	54	194	184	255	156	30
336	Transportation Equipment Manufacturing	0	<10	17	100	232	239	188	13
325	Chemical Manufacturing	<10	57	42	47	129	129	79	11
327	Nonmetallic Mineral Product Manufacturing	0	<10	<10	51	60	84	60	11
311	Food Manufacturing	<10	<10	<10	51	72	67	44	<10
321	Wood Product Manufacturing	<10	<10	11	50	63	52	39	10
339	Miscellaneous Manufacturing	<10	<10	<10	17	44	66	49	<10
334	Computer and Electronic Product Manufacturing	0	0	0	20	29	26	<10	<10
322	Paper Manufacturing	0	0	<10	<10	19	21	<10	<10
333	Machinery Manufacturing	0	<10	0	15	<10	18	<10	<10
323	Printing and Related Support Activities	0	<10	<10	<10	<10	<10	<10	<10
332	Fabricated Metal Product Manufacturing	0	<10	<10	<10	<10	<10	<10	<10
331	Primary Metal Manufacturing	0	0	0	0	<10	<10	<10	0
313	Textile Mills	0	0	0	0	<10	<10	0	0
312	Beverage and Tobacco Product Manufacturing	0	0	0	<10	0	0	0	0
314	Textile Product Mills	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total</b>		<b>12</b>	<b>143</b>	<b>183</b>	<b>713</b>	<b>1,079</b>	<b>1,284</b>	<b>950</b>	<b>166</b>

New River/Mount Rogers Skills Gap Analysis  
 County Manufacturing Profiles: Montgomery

**Staffing Patterns for Manufacturing Employers: Montgomery County, Virginia (SOC: 2-Digit)<sup>vi</sup>**  
**With Employment <10 jobs – Categories Shaded Gray Are Further Analyzed in this Profile**

SOC	Occupation Group	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Montgomery County Manufacturing	Median Hourly Earnings
51-0000	Production Occupations	2,782	2,436	(346)	53.6%	\$17.74
43-0000	Office and Administrative Support Occupations	580	506	(74)	11.0%	\$14.31
53-0000	Transportation and Material Moving Occupations	551	475	(76)	9.9%	\$15.12
17-0000	Architecture and Engineering Occupations	322	293	(29)	6.4%	\$32.37
49-0000	Installation, Maintenance, and Repair Occupations	236	216	(20)	4.6%	\$15.93
11-0000	Management Occupations	225	190	(35)	4.2%	\$37.30
13-0000	Business and Financial Operations Occupations	157	142	(15)	3.1%	\$25.94
41-0000	Sales and Related Occupations	133	115	(18)	2.5%	\$12.07
47-0000	Construction and Extraction Occupations	91	78	(13)	1.6%	\$16.46
15-0000	Computer and Mathematical Occupations	61	51	(10)	1.2%	\$28.27
19-0000	Life, Physical, and Social Science Occupations	25	30	5	0.6%	\$34.88
37-0000	Building and Grounds Cleaning and Maintenance Occupations	22	18	(4)	0.4%	\$11.64
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	24	18	(6)	0.4%	\$22.79
45-0000	Farming, Fishing, and Forestry Occupations	15	11	(4)	0.2%	\$13.72
<b>Total</b>		<b>5,224</b>	<b>4,516</b>	<b>(645)</b>	<b>99.7%</b>	<b>--</b>

**Top Ten Production Occupations for Manufacturing: Montgomery County, VA (SOC: 5-Digit)<sup>vii</sup>**

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Montgomery County Manufacturing (2013)	Median Hourly Earnings (All Industries)
1.	51-2022	Electrical and Electronic Equipment Assemblers	330	303	(27)	6.4%	\$15.00
2.	51-2092	Team Assemblers	287	213	(74)	4.9%	\$13.37
3.	51-4041	Machinists	191	208	17	4.6%	\$18.86
4.	51-1011	First-Line Supervisors of Production and Operating Workers	178	153	(25)	3.4%	\$25.11
5.	51-2099	Assemblers and Fabricators, All Other	132	122	(10)	2.7%	\$22.76
6.	51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	125	113	(12)	2.5%	\$16.39
7.	51-7042	Woodworking Machine Setters, Operators, and Tenders	141	111	(30)	2.5%	\$11.30
8.	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	84	91	7	1.9%	\$24.56
9.	51-7011	Cabinetmakers and Bench Carpenters	113	80	(33)	1.8%	\$25.58
10.	51-9198	Helpers- Production Workers	88	75	(13)	1.6%	\$10.87
Other Titles (Each with at least 25 Employees): Production Workers (All Other); Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders (Metal/Plastic); Coil Winders, Tapers, and Finishers; Coating, Painting, and Spraying Machine Setters, Operators, and Tenders; Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders; Extruding and Drawing Machine Setters, Operators, and Tenders (Metal and Plastic); Engine and Other Machine Assemblers; Tool and Die Makers; Computer-Controlled Machine Tool Operators (Metal and Plastic); Electromechanical Equipment Assemblers; Plating and Coating Machine Setters, Operators, and Tenders (Metal and Plastic); Furniture Finishers; Multiple Machine Tool Setters, Operators, and Tenders (Metal and Plastic); Sewing Machine Operators; Cutting, Punching, and Press Machine Setters, Operators, and Tenders (Metal and Plastic); Packaging and Filling Machine Operators and Tenders; Upholsterers							

**Top Office and Administrative Support Occupations for Manufacturing: Montgomery County, VA  
 (SOC: 5-Digit)<sup>viii</sup>**

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Montgomery County Manufacturing	Median Hourly Earnings (All Industries)
1.	43-5071	Shipping, Receiving, and Traffic Clerks	114	101	(13)	2.2%	\$15.01
2.	43-3031	Bookkeeping, Accounting, and Auditing Clerks	82	76	(6)	1.6%	\$16.01
3.	43-9061	Office Clerks, General	74	63	(11)	1.4%	\$11.61
4.	43-5061	Production, Planning, and Expediting Clerks	53	50	(3)	1.1%	\$16.73
5.	43-5081	Stock Clerks and Order Fillers	56	50	(6)	1.1%	\$9.57
6.	43-4051	Customer Service Representatives	39	29	(10)	0.7%	\$11.19
7.	43-1011	First-Line Supervisors of Office and Administrative Support Workers	28	25	(3)	0.5%	\$19.02
8.	43-6011	Executive Secretaries and Executive Administrative Assistants	23	21	(2)	0.5%	\$18.65
9.	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	24	18	(6)	0.4%	\$14.51
10.	43-4171	Receptionists and Information Clerks	15	13	(2)	0.3%	\$12.04
Other Titles (Each with at least 10 Employees): Dispatchers, Except Police, Fire, and Ambulance; Office and Administrative Support Workers (All Other)							



**Top Transportation and Material Moving Occupations for Manufacturing: Montgomery County, VA  
 (SOC: 5-Digit)<sup>x</sup>**

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Montgomery County Manufacturing	Median Hourly Earnings (All Industries)
1.	53-7051	Industrial Truck and Tractor Operators	147	136	(11)	2.9%	\$23.78
2.	53-3032	Heavy and Tractor-Trailer Truck Drivers	137	114	(23)	2.2%	\$14.10
3.	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	124	102	(22)	2.2%	\$10.05
4.	53-7064	Packers and Packagers, Hand	53	42	(11)	0.9%	\$9.23
5.	53-7063	Machine Feeders and Off-bearers	26	23	(3)	0.5%	\$11.12
6.	53-3033	Light Truck or Delivery Services Drivers	25	22	(3)	0.5%	\$13.30
7.	53-1031	First-Line Supervisors of Transportation and Material Moving Machine and Vehicle Operators	16	15	(1)	0.3%	\$20.56
Other Titles (Each with <10 Employees): Supervisors of Helpers, Laborers, and Material Movers(Hand); Cleaners of Vehicles and Equipment; Tank Car, Truck and Ship Loaders; Conveyor Operators and Tenders; Crane and Tower Operators; Driver/Sales Workers; Hoist and Winch Operators; Motor Vehicle Operators, All Other; Excavating and Loading Machine and Dragline Operators							

**Top Architecture and Engineering Occupations for Manufacturing: Montgomery County, VA (SOC: 5-Digit)\***

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Montgomery County Manufacturing	Median Hourly Earnings (All Industries)
1.	17-2071	Electrical Engineers	74	66	(8)	1.4%	\$34.44
2.	17-2112	Industrial Engineers	53	48	(5)	1.1%	\$34.58
3.	17-3023	Electrical and Electronics Engineering Technicians	51	47	(4)	1.0%	\$21.15
4.	17-3026	Industrial Engineering Technicians	29	28	(1)	0.6%	\$22.46
5.	17-2141	Mechanical Engineers	32	28	(4)	0.6%	\$38.85
6.	17-3027	Mechanical Engineering Technicians	17	17	0	0.4%	\$23.80
7.	17-3013	Mechanical Drafters	15	13	(2)	0.3%	\$24.54
8.	17-2072	Electronics Engineers, Except Computer	14	12	(2)	0.3%	\$34.10
Other Titles (Each with <10 Employees): Electrical and Electronics Drafters; Engineering Technicians; Computer Hardware Engineers; Chemical Engineers; Engineers (All Other); Materials Engineers; Health and Safety Engineers; Drafters (All Other); Architectural and Civil Drafters; Civil Engineers; Environmental Engineers; Electro-Mechanical Technicians; Aerospace Engineers							

**Top Installation, Maintenance, and Repair Occupations for Manufacturing: Montgomery County, VA (SOC: 5-Digit)<sup>xi</sup>**

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Montgomery County Manufacturing	Median Hourly Earnings (All Industries)
1.	49-9071	Maintenance and Repair Workers, General	92	83	(9)	1.8%	\$13.70
2.	49-9041	Industrial Machinery Mechanics	42	42	0	0.9%	\$19.28
3.	49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	30	27	(3)	0.5%	\$20.01
4.	49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	23	22	(1)	0.5%	\$21.00
5.	49-9043	Maintenance Workers, Machinery	16	13	(3)	0.3%	\$21.49
6.	49-9099	Installation, Maintenance, and Repair Workers, All Other	13	11	(2)	0.2%	\$13.31
Other Titles (Each with <10 Employees): Electrical and Electronics Repairers (Commercial/Industrial); Helpers-Installation, Maintenance, and Repair Workers; Electric Motor, Power Tool, and Related Repairers; Automotive Service Technicians and Mechanics; Millwrights; Electrical and Electronics Installers and Repairers (Transportation Equipment); Mobile Heavy Equipment Mechanics (Except Engines); Heating, Air Conditioning, and Refrigeration Mechanics and Installers; Manufactured Building and Mobile Home Installers; Computer Automated Teller and Office Machine Repairers; Recreational Vehicle Service Technicians; Electronic Equipment Installers and Repairers (Motor Vehicles)							

**Top Computer and Mathematical Occupations for Manufacturing: Montgomery County, VA (SOC: 5-Digit)<sup>xii</sup>**

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Montgomery County Manufacturing	Median Hourly Earnings (All Industries)
1.	15-1132	Software Developers, Applications	14	12	(2)	.3%	\$29.18
2.	15-1133	Software Developers, Systems Software	13	11	(2)	.3%	\$37.65
Other Titles (Each with <10 Employees): Computer User Support Specialists; Network & Computer Systems Admin.; Computer Systems Analysts; Computer Programmers; Computer Network Support Specialists; Web Developers; Database Administrators; Computer Occupations-Other; Operations Research Analysts; Computer Network Architects							

**Top Life, Physical, and Social Science Occupations for Manufacturing: Montgomery County, VA  
 (SOC: 5-Digit)<sup>xiii</sup>**

	<b>SOC</b>	<b>Description</b>	<b>2008 Jobs</b>	<b>2012 Jobs</b>	<b>Change Jobs 2008-2012 (#)</b>	<b>% of Total Jobs in Montgomery County Manufacturing</b>	<b>Median Hourly Earnings (All Industries)</b>
1.	19-4031	Chemical Technicians	14	19	5	.4%	\$21.78
Other Titles (Each with <10 Employees): Chemists; Materials Scientists; Food Scientists and Technologists; Agricultural and Food Science Technicians; Life, Physical, and Social Science Technicians (All Other); Animal Scientists							

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## References

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- i Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- ii Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- iii Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- iv Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- v Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
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- vii Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- viii Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- ix Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
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- xi Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- xii Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- xiii Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)