

# County Profiles: Manufacturing

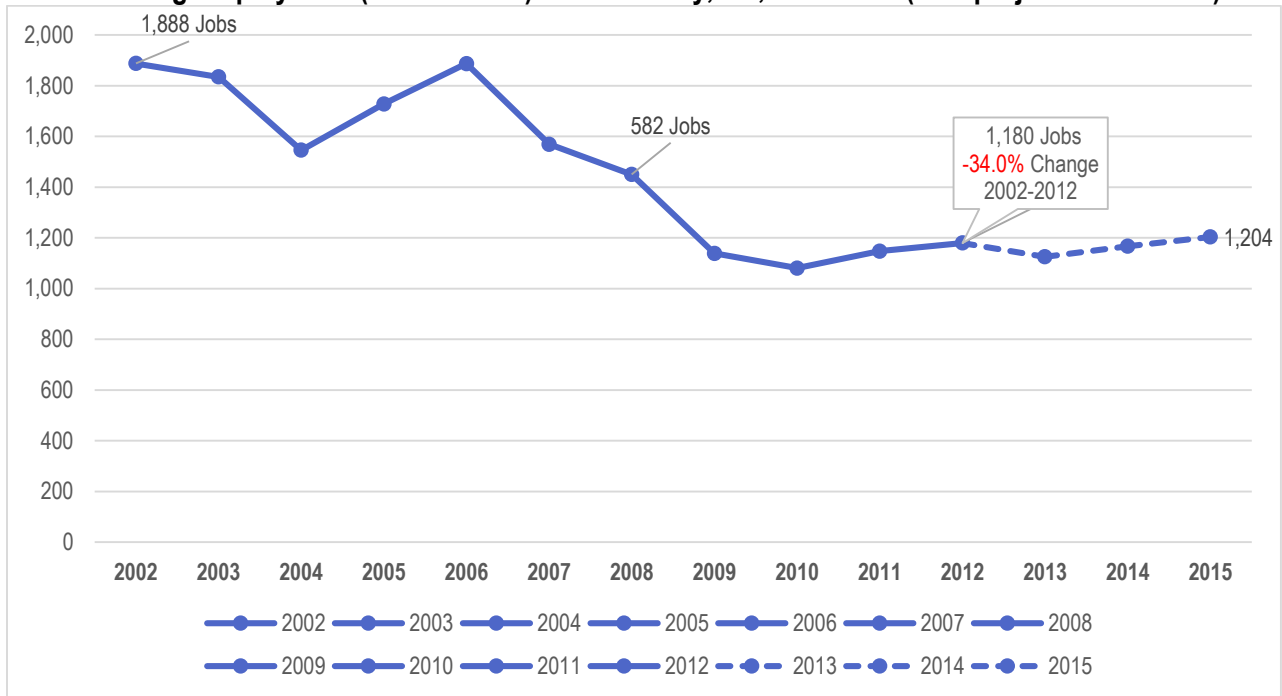


Radford City, Virginia

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

*Prepared by:  
Virginia Tech Office of Economic  
Development*

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



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

	2002 Jobs	2008 Jobs	2012 Jobs	Change 2002-2012 (#)	Change 2002-2012 (%)
<b>Radford City</b>	<b>1,888</b>	<b>1,450</b>	<b>1,180</b>	<b>(708)</b>	<b>(38%)</b>
Pulaski County	5,350	4,061	3,851	(1,499)	(28%)
New River/Mount Rogers WIA 2	34,178	28,241	25,440	(8,738)	(26%)
Bluefield WV-VA, MSA	3,232	3,130	2,785	(447)	(14%)
Roanoke, VA MSA	19,196	16,719	14,758	(4,438)	(23%)
Virginia	321,016	264,948	231,033	-89,983	(28%)
United States	15,209,748	13,382,696	11,905,319	-3,304,429	(22%)

**Manufacturing Employment: Radford City, 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	700	636	772	602	621	94	20.67
325	Chemical Manufacturing	283	156	115	421	403	361	0.88
331	Primary Metal Manufacturing	247	221	97	51	51	(595)	24.72
336	Transportation Equipment Manufacturing	0	0	0	20	35	35	0.00
326	Plastics and Rubber Products Manufacturing	136	61	39	16	22	(346)	8.44
333	Machinery Manufacturing	32	35	31	13	21	--	--
332	Fabricated Metal Product Manufacturing	35	26	21	20	17	(54)	0.89
314	Textile Product Mills	<10	<10	<10	<10	<10	--	--
337	Furniture and Related Product Manufacturing	<10	<10	<10	<10	<10	--	--
311	Food Manufacturing	0	0	0	0	<10	--	0.00
339	Miscellaneous Manufacturing	0	0	0	0	<10	--	0.00
315	Apparel Manufacturing	<10	0	0	0	0	0	0.00
327	Nonmetallic Mineral Product Manufacturing	0	0	0	0	0	0	0.00
323	Printing and Related Support Activities	0	0	0	0	0	--	--
322	Paper Manufacturing	0	0	0	0	0	(232)	8.28
334	Computer and Electronic Product Manufacturing	12	<10	0	0	0	--	--
321	Wood Product Manufacturing	0	0	0	0	0	--	--
313	Textile Mills	0	0	0	0	0	0	0.00
316	Leather and Allied Product Manufacturing	0	0	0	0	0	0	0.00
312	Beverage and Tobacco Product Manufacturing	<10	<10	<10	<10	0	--	--
324	Petroleum and Coal Products Manufacturing	0	0	0	0	0	0	0.00
<b>Total</b>		1,450	1,139	1,081	1,148	1,180	(708)	

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

NAICS Code	Description	2013 Average Earnings Per Job (Radford)	2013 Average Earnings Per Job (Pulaski)	2013 Average Earnings Per Job (New River/Mount Rogers WIA)	2013 Average Earnings Per Job (Roanoke, MSA)	2013 Average Earnings Per Job (Virginia)	2013 Average Earnings Per Job (United States)
335	Electrical Equipment, Appliance, and Component Manufacturing	\$86,106	\$76,235	\$74,867	\$88,496	\$78,739	\$85,017
325	Chemical Manufacturing	\$62,796	\$98,372	\$77,672	\$75,094	\$95,670	\$117,339
331	Primary Metal Manufacturing	\$83,716	\$0	\$59,173	\$72,861	\$75,257	\$79,745
336	Transportation Equipment Manufacturing	\$81,795	\$70,229	\$61,329	\$58,228	\$77,640	\$87,081
326	Plastics and Rubber Products Manufacturing	\$79,488	\$41,577	\$55,090	\$70,090	\$71,492	\$60,497
333	Machinery Manufacturing	\$90,752	\$44,092	\$56,073	\$59,718	\$72,122	\$79,734
332	Fabricated Metal Product Manufacturing	\$32,408	\$56,825	\$53,921	\$58,658	\$66,359	\$63,732
314	Textile Product Mills	--	\$0	\$42,150	\$44,482	\$39,788	\$46,010
337	Furniture and Related Product Manufacturing	--	\$37,140	\$37,127	\$42,863	\$43,443	\$49,025
311	Food Manufacturing	--	\$0	\$49,448	\$47,088	\$47,473	\$52,522
339	Miscellaneous Manufacturing	--	\$48,242	\$46,827	\$69,883	\$71,120	\$82,536
315	Apparel Manufacturing	\$0	--	\$26,538	\$37,600	\$33,649	\$45,352
327	Nonmetallic Mineral Product Manufacturing	\$0	\$39,849	\$49,709	\$46,969	\$55,363	\$64,593
323	Printing and Related Support Activities	\$0	\$32,506	\$48,506	\$40,133	\$51,949	\$55,221
322	Paper Manufacturing	\$0	\$0	\$44,875	\$60,894	\$76,814	\$77,583
334	Computer and Electronic Product Manufacturing	\$0	\$48,836	\$67,258	\$73,586	\$105,679	\$119,790
321	Wood Product Manufacturing	\$0	\$45,075	\$36,199	\$49,320	\$45,046	\$48,510
313	Textile Mills	\$0	\$38,382	\$32,244	\$48,492	\$40,799	\$48,944
316	Leather and Allied Product Manufacturing	\$0	\$0	\$39,391	--	\$30,902	\$50,477
312	Beverage and Tobacco Product Manufacturing	\$0	\$0	\$62,515	\$71,206	\$88,801	\$77,328
324	Petroleum and Coal Products Manufacturing	\$0	\$0	\$129,266	\$0	\$123,300	\$200,942
<b>Total</b>		<b>\$76,666</b>	<b>\$63,087</b>	<b>\$57,919</b>	<b>\$62,198</b>	<b>\$68,357</b>	<b>\$77,540</b>

**Manufacturing Age Demographics, by NAICS 3-Digit Industry: Radford City, VA<sup>v</sup>**

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	<10	<10	14	86	128	181	149	17
325	Chemical Manufacturing	0	<10	13	59	102	121	90	<10
331	Primary Metal Manufacturing	0	0	0	<10	14	19	14	0
336	Transportation Equipment Manufacturing	0	0	0	0	<10	21	0	0
326	Plastics and Rubber Products Manufacturing	0	0	0	0	<10	<10	<10	<10
333	Machinery Manufacturing	0	0	0	<10	13	<10	0	<10
332	Fabricated Metal Product Manufacturing	0	0	0	<10	<10	<10	<10	0
314	Textile Product Mills	0	0	0	<10	0	0	0	0
337	Furniture and Related Product Manufacturing	0	0	<10	<10	0	0	0	0
311	Food Manufacturing	0	0	0	0	<10	<10	0	0
339	Miscellaneous Manufacturing	0	0	0	0	<10	<10	0	0
315	Apparel Manufacturing	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Product Manufacturing	0	0	0	0	0	0	0	0
323	Printing and Related Support Activities	0	0	0	0	0	0	0	0
322	Paper Manufacturing	0	0	0	0	0	0	0	0
334	Computer and Electronic Product Manufacturing	0	0	0	0	0	0	0	0
321	Wood Product Manufacturing	0	0	0	0	0	0	0	0
313	Textile Mills	0	0	0	0	0	0	0	0
316	Leather and Allied Product Manufacturing	0	0	0	0	0	0	0	0
312	Beverage and Tobacco Product Manufacturing	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products Manufacturing	0	0	0	0	0	0	0	0
<b>Total</b>		<b>&lt;10</b>	<b>12</b>	<b>28</b>	<b>164</b>	<b>272</b>	<b>359</b>	<b>266</b>	<b>24</b>

**Staffing Patterns for Manufacturing Employers: Radford City, Virginia (SOC: 2-Digit)<sup>vi</sup>**

SOC	Occupation Group	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Radford City Manufacturing	Median Hourly Earnings
51-0000	Production Occupations	865	660	(205)	56.0%	\$18.08
17-0000	Architecture and Engineering Occupations	140	124	(16)	10.3%	\$30.51
43-0000	Office and Administrative Support Occupations	124	113	(11)	9.5%	\$15.68
53-0000	Transportation and Material Moving Occupations	68	64	(4)	5.4%	\$18.12
11-0000	Management Occupations	63	52	(11)	4.4%	\$37.46
49-0000	Installation, Maintenance, and Repair Occupations	62	46	(16)	3.9%	\$16.24
13-0000	Business and Financial Operations Occupations	44	40	(4)	3.3%	\$25.87
41-0000	Sales and Related Occupations	32	30	(2)	2.6%	\$13.04
19-0000	Life, Physical, and Social Science Occupations	14	20	6	1.7%	--
15-0000	Computer and Mathematical Occupations	15	13	(2)	1.1%	\$24.51
47-0000	Construction and Extraction Occupations	15	12	(3)	1.0%	\$16.79
37-0000	Building and Grounds Cleaning and Maintenance Occupations	<10	<10	--	0.3%	--
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	<10	<10	--	0.1%	--
<b>Total</b>		<b>1,442</b>	<b>1,174</b>	<b>(268)</b>	<b>--</b>	<b>--</b>

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

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Radford City Manufacturing	Median Hourly Earnings
1.	51-2022	Electrical and Electronic Equipment Assemblers	166	149	(17)	12.3%	\$15.86
2.	51-4041	Machinists	70	57	(13)	4.7%	\$19.23
3.	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	38	47	9	4.1%	\$19.89
4.	51-2092	Team Assemblers	55	39	(16)	3.4%	\$14.49
5.	51-1011	First-Line Supervisors of Production and Operating Workers	47	36	(11)	3.1%	\$26.78
6.	51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	46	35	(11)	3.0%	\$16.38
7.	17-2071	Electrical Engineers	40	36	(4)	3.0%	\$34.65
8.	51-2021	Coil Winders, Tapers, and Finishers	38	33	(5)	2.7%	\$16.32
9.	51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	44	28	(16)	2.5%	\$12.84
10.	51-9199	Production Workers, All Other	21	25	4	2.1%	\$13.29

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

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Radford City Manufacturing	Median Hourly Earnings
1.	43-5071	Shipping, Receiving, and Traffic Clerks	27	24	(3)	2.0%	\$17.00
2.	43-3031	Bookkeeping, Accounting, and Auditing Clerks	17	18	1	1.5%	\$17.08
3.	43-5061	Production, Planning, and Expediting Clerks	14	13	(1)	1.1%	\$17.97
4.	43-9061	Office Clerks, General	14	13	(1)	1.1%	\$12.23
Other Titles (Each with <10 Employees): Stock Clerks and Order Fillers; Customer Service Representatives; Executive Secretaries and Executive Administrative Assistants; First-Line Supervisors of Office and Administrative Support Workers; Secretaries and Administrative Assistants, Except Legal, Medical, and Executive; Procurement Clerks; Office and Administrative Support Workers, All Other; Receptionists and Information Clerks; Order Clerks; Human Resources Assistants, Except Payroll and Timekeeping; Payroll and Timekeeping Clerks; Billing and Posting Clerks; Weighers, Measurers, Checkers, and Samplers, Recordkeeping							

**Top Architecture and Engineering Occupations for Manufacturing: Radford City, VA (SOC: 5-Digit)<sup>ix</sup>**

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Radford City Manufacturing	Median Hourly Earnings
1.	17-2071	Electrical Engineers	40	36	(4)	3.0%	\$34.65
2.	17-3023	Electrical and Electronics Engineering Technicians	26	24	(2)	2.0%	\$21.27
3.	17-2112	Industrial Engineers	17	14	(3)	1.2%	\$32.10
4.	17-2141	Mechanical Engineers	13	<10	--	0.8%	--
Other Titles (Each with <10 Employees): Industrial Engineering Technicians; Electronics Engineers, Except Computer; Mechanical Engineering Technicians; Electrical and Electronics Drafters; Mechanical Drafters; Chemical Engineers Engineering Technicians, Except Drafters, All Other; Engineers, All Other; Computer Hardware Engineers; Health and Safety Engineers, Except Mining Safety Engineers and Inspectors; Materials Engineers							



**Top Management Occupations for Manufacturing: Radford City, VA (SOC: 5-Digit)\***

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Radford City Manufacturing	Median Hourly Earnings
1.	11-1021	General and Operations Managers	21	17	(4)	1.5%	\$45.33
2.	11-3051	Industrial Production Managers	13	<10	<10	0.8%	--
Other Titles (Each with <10 Employees): Financial Managers; Architectural and Engineering Managers; Chief Executives; Sales Managers; Purchasing Managers; Computer and Information Systems Managers; Marketing Managers; Human Resources Managers; Administrative Services Managers; Managers (All Other)							

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

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Radford City Manufacturing	Median Hourly Earnings
1.	49-9071	Maintenance and Repair Workers, General	24	19	(5)	1.6%	\$13.76
2.	49-9041	Industrial Machinery Mechanics	13	11	(2)	0.9%	\$18.98
3.	49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	<10	<10	--	0.5%	--
Other Titles (Each with <10 Employees): Maintenance Workers, Machinery Electrical and Electronics Repairers, Commercial and Industrial Equipment; Installation, Maintenance, and Repair Workers, All Other; Electric Motor, Power Tool, and Related Repairers Millwrights; Heating, Air Conditioning, and Refrigeration Mechanics and Installers; Outdoor Power Equipment and Other Small Engine Mechanics							

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- <sup>i</sup> Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- <sup>ii</sup> Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- <sup>iii</sup> Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- <sup>iv</sup> Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- <sup>v</sup> Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- <sup>vi</sup> Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- <sup>vii</sup> Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- <sup>viii</sup> Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- <sup>ix</sup> Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- <sup>x</sup> Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- <sup>xi</sup> Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)