

Community Profiles: Manufacturing

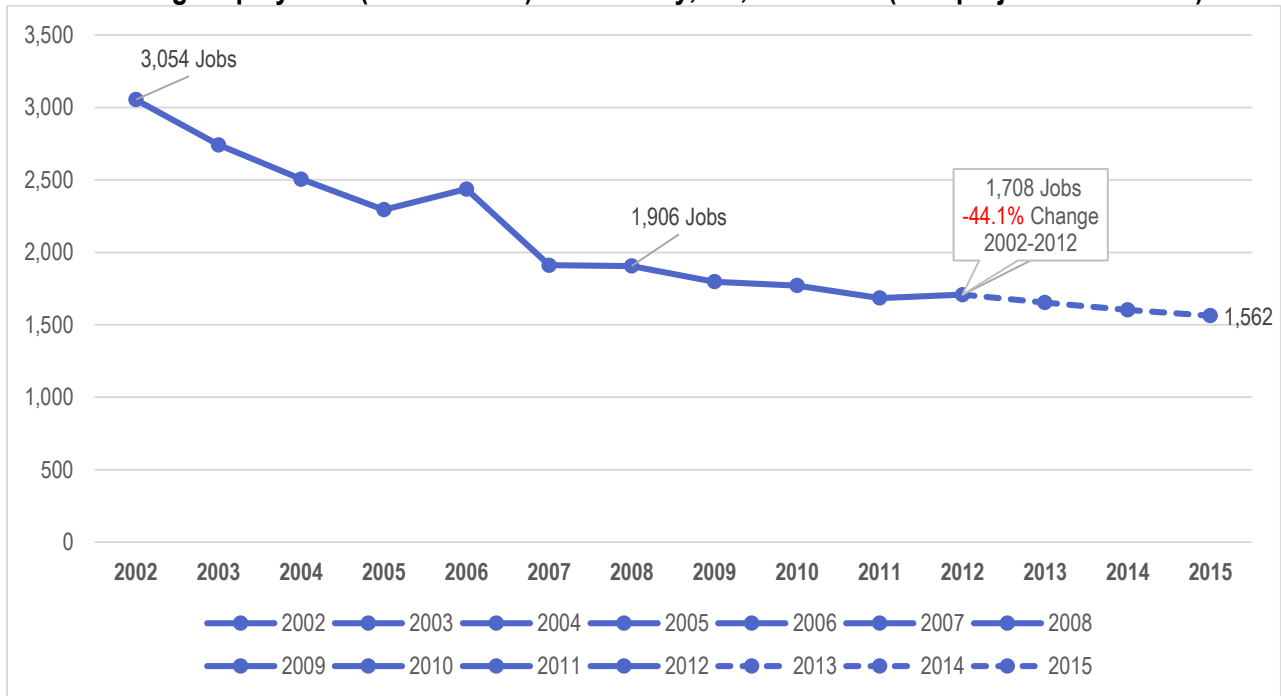


Bristol, Virginia

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

*Prepared by:
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Development*

Manufacturing Employment (NAICS 31-33): Bristol City, VA, 2002-2012 (with projections to 2015)ⁱ



Manufacturing Employment (NAICS 31-33): Bristol City vs. Neighboring Jurisdictions/Regionsⁱⁱ

	2002 Jobs	2008 Jobs	2012 Jobs	Change 2002-2012 (#)	Change 2002-2012 (%)
Bristol City	3,054	1,906	1,708	(1,346)	(44.1%)
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%)

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Manufacturing Employment: Bristol City, VA, by NAICS 3-Digit Industryⁱⁱⁱ

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	545	526	606	643	652	107	19.25
332	Fabricated Metal Product Manufacturing	347	344	320	298	298	(49)	2.34
311	Food Manufacturing	296	258	292	290	275	(21)	2.07
333	Machinery Manufacturing	267	250	207	156	162	(105)	1.62
315	Apparel Manufacturing	138	151	119	122	129	(9)	9.58
325	Chemical Manufacturing	85	96	103	59	67	(18)	0.94
322	Paper Manufacturing	44	53	41	33	37	(7)	1.07
327	Nonmetallic Mineral Product Manufacturing	33	20	21	35	34	1	1.02
339	Miscellaneous Manufacturing	20	46	31	27	31	11	0.60
321	Wood Product Manufacturing	27	30	18	12	12	(15)	0.40
323	Printing and Related Support Activities	19	23	13	10	10	(9)	0.24
336	Transportation Equipment Manufacturing	84	0	0	0	0	(84)	0.00
Total		1,906	1,798	1,771	1,685	1,708	(198)	-

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Manufacturing Earnings, by NAICS 3-Digit Industry: Bristol City, VA^{iv}

NAICS Code	Description	2013 Average Earnings Per Job (Bristol City)	2013 Average Earnings Per Job (Kingsport-Bristol-Bristol VA/TN (without LWIA 2))	2013 Average Earnings Per Job (New River/Mount Rogers WIA)	2013 Average Earnings Per Job (Bluefield VA-WV, MSA)	2013 Average Earnings Per Job (Virginia)	2013 Average Earnings Per Job (United States)
335	Electrical Equipment, Appliance, and Component Manufacturing	\$62,793	\$59,592	\$74,867	\$52,755	\$78,739	\$85,017
332	Fabricated Metal Product Manufacturing	\$73,238	\$43,704	\$67,258	\$35,733	\$105,679	\$119,790
311	Food Manufacturing	\$44,718	\$53,194	\$53,921	\$52,087	\$66,359	\$63,732
333	Machinery Manufacturing	\$42,873	\$62,254	\$46,827	\$47,408	\$71,120	\$82,536
315	Apparel Manufacturing	\$27,978	\$24,272	\$62,515	\$53,501	\$88,801	\$77,328
325	Chemical Manufacturing	\$14,010	\$131,423	\$59,173	\$54,064	\$75,257	\$79,745
322	Paper Manufacturing	\$31,007	\$92,212	\$49,709	\$57,542	\$55,363	\$64,593
327	Nonmetallic Mineral Product Manufacturing	\$45,766	\$70,101	\$44,875	--	\$76,814	\$77,583
339	Miscellaneous Manufacturing	\$46,051	\$53,255	\$39,391	\$0	\$30,902	\$50,477
321	Wood Product Manufacturing	\$49,134	\$34,874	\$36,199	\$39,217	\$45,046	\$48,510
323	Printing and Related Support Activities	--	\$51,624	\$26,538	\$0	\$33,649	\$45,352
336	Transportation Equipment Manufacturing	--	\$65,978	\$49,448	--	\$47,473	\$52,522
Total		\$53,434	\$92,916	\$57,919	\$54,859	\$68,357	\$77,540

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Manufacturing Age Demographics, by NAICS 3-Digit Industry: Bristol City, VA^v

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	25	80	128	200	144	27
332	Fabricated Metal Product Manufacturing	<10	<10	<10	26	82	97	69	<10
311	Food Manufacturing	0	<10	<10	49	79	73	50	10
333	Machinery Manufacturing	<10	<10	0	28	70	11	35	<10
315	Apparel Manufacturing	0	0	0	0	0	75	57	0
325	Chemical Manufacturing	<10	0	<10	<10	20	26	15	<10
322	Paper Manufacturing	0	0	<10	<10	11	<10	<10	<10
327	Nonmetallic Mineral Product Manufacturing	0	<10	0	<10	<10	12	<10	<10
339	Miscellaneous Manufacturing	0	0	<10	<10	<10	<10	<10	<10
321	Wood Product Manufacturing	0	0	0	<10	<10	<10	<10	<10
323	Printing and Related Support Activities	0	0	0	<10	0	<10	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
334	Computer and Electronic Product Manufacturing	0	0	0	0	0	0	0	0
336	Transportation Equipment Manufacturing	0	0	0	0	0	0	0	0
337	Furniture and Related Product Manufacturing	0	0	0	0	0	0	0	0
326	Plastics and Rubber Products Manufacturing	0	0	0	0	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0	0
331	Primary Metal 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
Total		<10	21	44	213	405	515	390	64

New River/Mount Rogers Skills Gap Analysis
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Staffing Patterns for Manufacturing Employers: Bristol City, Virginia (SOC: 2-Digit)^{vi}

SOC	Occupation Group	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Bristol City Manufacturing	Median Hourly Earnings (All Industries)
51-0000	Production Occupations	1,041	918	(123)	53.5%	\$28.32
43-0000	Office and Administrative Support Occupations	214	197	(17)	11.5%	\$21.68
53-0000	Transportation and Material Moving Occupations	150	135	(15)	8.1%	\$14.10
49-0000	Installation, Maintenance, and Repair Occupations	123	108	(15)	6.4%	\$12.57
17-0000	Architecture and Engineering Occupations	79	69	(10)	4.0%	\$31.06
11-0000	Management Occupations	79	67	(12)	3.9%	\$50.15
13-0000	Business and Financial Operations Occupations	68	68	0	3.9%	\$23.38
41-0000	Sales and Related Occupations	61	54	(7)	3.2%	\$15.44
47-0000	Construction and Extraction Occupations	34	35	1	1.9%	\$17.65
15-0000	Computer and Mathematical Occupations	18	18	0	1.0%	\$34.01
37-0000	Building and Grounds Cleaning and Maintenance Occupations	13	13	0	0.8%	\$12.26
35-0000	Food Preparation and Serving Related Occupations	<10	<10	--	0.6%	--
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	<10	<10	--	0.5%	--
19-0000	Life, Physical, and Social Science Occupations	<10	<10	--	0.3%	--
Total		1,880	1,682	(198)	100.0%	--

Top Ten Production Occupations for Manufacturing: Bristol City, VA (SOC: 5-Digit)^{vii}

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Bristol City Manufacturing	Median Hourly Earnings (All Industries)
1.	51-2022	Electrical and Electronic Equipment Assemblers	95	102	7	5.6%	\$30.68
2.	51-2092	Team Assemblers	95	87	(8)	5.1%	\$26.56
3.	51-2023	Electromechanical Equipment Assemblers	70	82	12	4.6%	\$32.55
4.	51-1011	First-Line Supervisors of Production and Operating Workers	66	56	(10)	3.3%	\$55.44
5.	51-4041	Machinists	72	52	(20)	3.2%	\$33.09
6.	51-4121	Welders, Cutters, Solderers, and Brazers	62	54	(8)	3.1%	\$26.81
7.	51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	48	45	(7)	2.1%	\$20.62
8.	51-3092	Food Batchmakers	40	37	(2)	2.1%	\$28.32
9.	51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	43	36	(2)	2.1%	\$26.79
10.	51-2041	Structural Metal Fabricators and Fitters	38	36	10	1.9%	\$37.60
Other Titles (Each with >20 Employees): Food Batchmakers; Extruding and Drawing Machine Setters, Operators, and Tenders (Metal and Plastic); Computer Numerically Controlled Machine Tool Programmers (Metal and Plastic); Helpers- Production Workers; Production Workers (All Other)							

Top Ten Office and Administrative Support Occupations for Manufacturing: Bristol City, VA (SOC: 5-Digit)^{viii}

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Bristol City Manufacturing	Median Hourly Earnings (All Industries)
1.	43-9061	Office Clerks, General	40	37	(3)	2.3%	\$11.27
2.	43-4051	Customer Service Representatives	31	31	0	1.9%	\$25.10
3.	43-3031	Bookkeeping, Accounting, and Auditing Clerks	27	24	(3)	2.2%	\$28.02
4.	43-5071	Shipping, Receiving, and Traffic Clerks	27	21	(6)	1.8%	\$12.92
5.	43-1011	First-Line Supervisors of Office and Administrative Support Workers	15	15	0	1.4%	\$37.42
6.	43-5081	Stock Clerks and Order Fillers	16	15	(1)	1.2%	\$10.52
7.	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	14	12	(2)	0.9%	\$14.83
8.	43-5061	Production, Planning, and Expediting Clerks	10	<10	--	0.9%	--
Other Titles (Each with <10 Employees): Procurement Clerks, Order Clerks, Executive Secretaries and Executive Administrative Assistants, Receptionists and Information Clerks, Billing and Posting Clerks, Human Resources Assistants, Except Payroll and Timekeeping							

Top Transportation and Material Moving Occupations for Manufacturing: Bristol City, VA (SOC: 5-Digit)^x

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Bristol City Manufacturing	Median Hourly Earnings (All Industries)
1.	53-7051	Industrial Truck and Tractor Operators	29	29	(1)	1.7%	\$8.45
2.	53-3032	Heavy and Tractor-Trailer Truck Drivers	27	25	(2)	1.5%	\$10.99
3.	53-7062	Laborers and Freight, Stock, and Material Movers-Hand	27	20	(7)	1.2%	\$9.27
4.	53-7064	Packers and Packagers, Hand	16	13	(3)	0.8%	\$10.36
5.	53-7063	Machine Feeders and Offbearers	12	11	(1)	0.6%	\$8.44
Other Titles (Each with <10 Employees): First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators; Light Truck or Delivery Services Drivers; Driver/Sales Workers; First-Line Supervisors of Helpers, Laborers, and Material Movers-Hand; Tank Car, Truck, and Ship Loaders; Hoist and Winch Operators; Conveyor Operators and Tenders; Crane and Tower Operators							

Top Installation, Maintenance, and Repair Occupations for Manufacturing: Bristol City, VA (SOC: 5-Digit)^x

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Bristol City Manufacturing	Median Hourly Earnings (All Industries)
1.	49-9071	Maintenance and Repair Workers, General	48	45	(3)	2.6%	\$18.36
2.	49-9043	Maintenance Workers, Machinery	23	20	(3)	1.2%	\$9.53
3.	49-9041	Industrial Machinery Mechanics	25	19	(6)	1.2%	\$11.31
4.	49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	12	11	(1)	0.6%	\$16.60
5.	Other Titles (Each with <10 Employees): Bus and Truck Mechanics and Diesel Engine Specialists; Electrical and Electronics Repairers(Commercial and Industrial Equipment); Electric Motor, Power Tool, and Related Repairers; Heating, Air Conditioning, and Refrigeration Mechanics and Installers; Installation, Maintenance, and Repair Workers (All Other); Helpers-Installation, Maintenance, and Repair Workers; Mobile Heavy Equipment Mechanics; Computer Automated Teller and Office Machine Repairers						

Top Architecture and Engineering Occupations for Manufacturing: Bristol City, VA (SOC: 5-Digit)^{xi}

	SOC	Description	2008 Jobs	2012 Jobs	Change Jobs 2008-2012 (#)	% of Total Jobs in Bristol City Manufacturing	Median Hourly Earnings (All Industries)
1.	17-2141	Mechanical Engineers	22	17	(5)	1.0%	\$19.44
2.	17-2071	Electrical Engineers	<10	<10	--	0.5%	--
3.	17-2112	Industrial Engineers	<10	<10	--	0.4%	--
4.	17-3013	Mechanical Drafters	<10	<10	--	0.3%	--
5.	Other Titles (Each with <10 Employees): Engineering Technicians, Except Drafters, All Other; Engineers, All Other; Industrial Engineering Technicians; Electrical and Electronics Engineering Technicians; Mechanical Engineering Technicians; Electrical and Electronics Drafters						

References

- 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)
- vi Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- 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)
- x Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)
- xi Source: EmsiAnalyst. Version 2013.4 Class of Worker. QCEW Employment only. (QCEW: 2013 Q1)