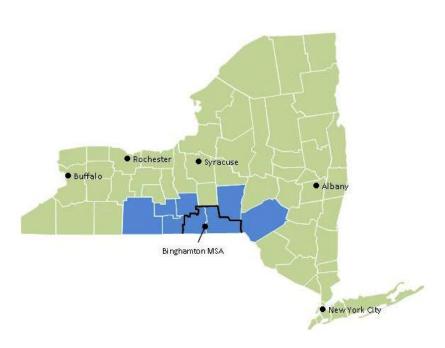


Introduction

Broome County contracted with E.M. Pemrick and Company to prepare the Economic Analysis Component of the County's Comprehensive Plan. The analysis is intended to update portions of a countywide economic development strategy, adopted in 2002, known as the *BCPlan*. Elements of the scope of work for the Economic Analysis include an economic profile of Broome County, a shovel-ready sites assessment, a profile of the local workforce, a target industry analysis, and an incentive evaluation. This document is the second of five deliverables.

This chapter refers to a number of different geographies for analysis, depending on the availability of data. They are described below:

Broome County – With 200,600 residents in 2010, Broome County is the most populous county in New York's Southern Tier region. It is bordered by Tioga County to the west, Delaware County to the east, and Cortland and Chenango Counties to the north; the Northern Tier of Pennsylvania adjoins Broome County to the south.



 Southern Tier Region – With a 2010 population of 657,909, the Southern Tier region as defined by Empire State Development encompasses the counties of Broome, Chemung, Chenango, Delaware, Schuyler, Steuben, Tioga and Tompkins. Major cities in the region, in addition to

Binghamton, include Elmira, Corning, and Ithaca.

Unless otherwise noted, the analysis draws upon quantitative data from the U.S. Bureau of Labor Statistics, the U.S. Census Bureau, and the NYS Department of Labor,



including Occupational Employment Statistics and Local Employment Dynamics.



Population Change

Data from the U.S. Census Bureau indicate that the Broome County population grew relatively slowly during the last half of the twentieth century. Between 1950 and 2000, the County added approximately 16,000 residents, an increase of 8.6%. This was less than half the rate of population growth in the Southern Tier region (19.5%) and considerably less than the statewide growth rate (28.0%).

The decennial census shows that Broome County had 200,600 residents in 2010, with little change from 2000. The Southern Tier experienced stagnant or declining population levels, while the number of people in New York State overall increased by 2.1%.

Table 1: Population Chang	e				
	2000	2010	% Change, 2000-2010	2020 (projected)	% Change, 2010-2020 (projected)
Broome County	200,536	200,600	0.03%	199,743	-0.4%
Chenango County	51,401	50,477	-1.8%	48,154	-4.6%
Cortland County	48,599	49,336	1.5%	49.008	-0.6%
Delaware County	48,055	47,980	-0.2%	46,717	-2.6%
Tioga County	51,784	51,125	-1.3%	48,337	-5.5%
Susquehanna County (PA)	42,238	43,356	2.6%	61,630	42.1%
Southern Tier Region	657,297	657,909	0.1%	643,719	-2.2%
New York State	18,976,457	19,378,102	2.1%	19,697,021	1.6%
United States	281,421,906	308,745,538	6.2%	333,896,000	8.1%

Sources: 2000 and 2010 data from U.S. Census Bureau, Decennial Census, Summary File 2. Population projections for the U.S. from the U.S. Census Bureau, 2012 National Projections; for New York counties from Cornell University's Program on Applied Demographics; and for Susquehanna County, PA from the Pennsylvania State Data Center.

Between 2010 and 2020, Broome County is projected to decline by approximately 850 residents, or -0.4%. Most surrounding counties are also expected to decrease in population. The sole exception appears to be Susquehanna County in Pennsylvania, which is projected to have a dramatic increase. The Pennsylvania State Data Center formulated its projections in 2008, however, and County planners do not believe that this unusually high rate of growth will hold up.¹

Individuals born outside the United States comprise less than 6% of the Broome County population overall, but they represent approximately 15% of the student enrollment at Binghamton University, one of the top U.S. universities for international students. Between 2000 and 2010, the number of foreign-born residents in the county increased by 7.8%, to 11,361. Of these, 45.8% were born in Asia, 31.9% in Europe, and 15.4% in Latin America. More than 60% are naturalized U.S. citizens.

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¹ "Census reveals ups, downs and questions," Susquehanna Independent Weekender, March 30, 2011. Workforce Profile



Age/Age Cohorts

The generational mix in Broome County and the Southern Tier region is consistent with state and national trends and reflects an aging population. In 2010, Broome County had a median age of 40.2. In neighboring counties, the median age ranged from 35.8 in Cortland County to 45.4 in Delaware County, compared to 38.0 for New York State.

Table 2: Median Age and Age Cohorts Median Under Age Age 65 and								
	Age	20	20-24	25-54	55-64	Over		
Broome County	40.2	24.3%	8.9%	37.9%	12.6%	16.3%		
Chenango County	42.9	25.2%	5.0%	39.1%	14.0%	16.6%		
Cortland County	35.8	26.8%	11.7%	36.3%	12.1%	13.1%		
Delaware County	45.4	23.6%	5.9%	35.6%	15.4%	19.4%		
Tioga County	42.5	25.8%	4.9%	40.4%	13.2%	15.7%		
Susquehanna County (PA)	45.1	23.6%	4.7%	38.7 %	14.9%	18.1%		
New York State	38.0	25.3%	7.3%	42.0%	11.9%	13.5%		
United States average	37.2	27.0%	7.0%	41.2%	11.8%	13.0%		

Source: U.S. Census Bureau, 2010 Census, Summary File 2.

Although employed individuals age 16 years and over are counted as part of the labor force, the prime working age population is considered to be the 25-54 age cohort. This is when the likelihood of labor force participation is highest.

As shown in **Table 2**, of the 200,600 people living in Broome County, 75,931 (37.9%) were between the ages of 25 and 54 in 2010, while 25,201 (12.6%) were ages 55 to 64. Compared to the state, Broome County has a higher proportion of residents age 65 and over. Generally speaking, these individuals are more likely to be retired and not available to participate in the labor force.

Over the next ten years, the aging of the population will continue to have a dramatic impact on the size and composition of the workforce. With limited growth expected in Broome County, the working-age population will begin to comprise a smaller share of the population, as people now in the 55-64 age cohort start to retire.

Educational Attainment

As shown in **Table 3**, educational attainment levels in Broome County are somewhat typical of upstate New York, showing a higher rate of high school completion than state and national averages. According to the Census Bureau, an estimated 119,000 Broome County residents age 25 and older (or 89%) had at least a high school diploma or its equivalent compared with 84.8% in New York State, while 34,000 (25.5%) had a bachelor's degree or higher. Compared to its neighbors, Broome County had a larger percentage of adults with a graduate or professional degree (11.6%).



Table 3: Educational Attainment, Adults Age 25 and Older							
Adults Age 25 and Older	% with High School Diploma or Higher	% Bachelor's Degree or Higher	% Graduate or Professional Degree				
Broome County	89.0	25.5	11.6				
Chenango County	87.0	17.7	7.5				
Cortland County	89.8	23.4	9.9				
Delaware County	86.3	19.5	8.2				
Tioga County	91.0	22.2	9.5				
Susquehanna County (PA)	89.0	17.4	6.3				
New York State	84.8	32.6	14.0				
United States average	85.6	28.2	10.5				

Source: U.S. Census Bureau, 2009-2011 American Community Survey 3-Year Estimates.

In terms of educational attainment by age (**Table 4**), the proportion of the population with a four-year, graduate, or professional degree is more than 30% among Broome County residents between the ages of 25 and 34, and 27.9% among those ages 35 to 44. This is higher than among the same age cohorts in neighboring counties.

Table 4: Educational Attainment by Age Group, Adults Age 25 and Older								
	Broome County	Chenango County	Cortland County	Delaware County	Tioga County	Susquehann a County (PA)		
Ages 25 to 34						` ,		
% Bachelor's Degree or Higher	30.1	17.6	26.4	18.0	26.7	21.5		
% Graduate or Professional Degree	13.2	7.4	7.1	4.1	11.0	4.5		
Ages 35 to 44								
% Bachelor's Degree or Higher	27.9	21.1	25.9	20.1	24.6	18.7		
% Graduate or Professional Degree	12.8	9.9	12.4	7.7	11.5	5.8		
Ages 45 to 64								
% Bachelor's Degree or Higher	27.1	19.4	23.9	20.3	23.6	18.1		
% Graduate or Professional Degree	12.3	8.0	9.7	8.7	10.5	7.3		
Age 65 and over								
% Bachelor's Degree or Higher	18.0	12.0	17.8	18.6	14.8	13.1		
% Graduate or Professional Degree	8.4	4.9	10.1	9.4	5.2	6.0		

Source: U.S. Census Bureau, 2009-2011 American Community Survey 3-Year Estimates.

Labor Force

The labor force includes people who are currently employed and those who are unemployed and seeking jobs. In contrast to employment by industry data, the estimates in the table below are by place of residence, rather than place of work.



Table 5: Resident Labor Force									
	1990	2000	2011	% Change, 1990-2000	% Change, 2000-2011				
Broome County	105,000	98,300	93,400	-6.4%	-5.0%				
Chenango County	25,200	24,500	24,600	-2.8%	0.4%				
Cortland County	24,600	24,200	24,200	-1.6%	0.0%				
Delaware County	21,700	22,200	21,600	2.3%	-2.7%				
Tioga County	26,300	26,600	25,000	1.1%	-6.0%				
Susquehanna County (PA)	18,300	20,400	23,100	11.5%	13.2%				
Southern Tier Region	326,700	322,800	316,300	-1.2%	-2.0%				
New York State	8,808,900	9,167,000	9,504,200	4.1%	3.7%				

Source: NYS Department of Labor and PA Department of Labor and Industry, Local Area Unemployment Statistics, and E.M. Pemrick and Company.

On average, there were 93,400 residents in the labor force in Broome County in 2011, with 8,000 seeking jobs, resulting in an unemployment rate of 8.5%. As of February 2013, there were 8,800 people in Broome County actively looking for work, with an unemployment rate of 9.5%.

The labor force participation rate is the labor force (employed and unemployed) divided by the population age 16 and over. It is one indication of whether more people might be drawn into the labor force if suitable jobs were available or wages were higher. According to the U.S. Census Bureau, Broome County has a labor force participation rate of 59.6%. The rate for New York State is 63.6%.

Table 6: Labor Force Participation Rates					
Broome County	59.6%				
Chenango County	60.3%				
Cortland County	60.1%				
Delaware County	58.9%				
Tioga County	66.6%				
Susquehanna County (PA)	60.9%				
New York State	63.6%				

Source: U.S. Census Bureau, 2009-2011 American Community Survey 3-Year Estimates.

The labor force participation rate can be influenced by the number of residents, particularly those between the ages of 16 and 24, who are still attending school. Tompkins County, which also has a sizable college student population, has a labor force participation rate of 60.4%.

Consistent with local population trends, the size of the labor force in Broome County is declining. Between 1990 and 2011, the resident labor force declined by more than 11,000. Of the surrounding counties, only Susquehanna County had a net increase in its labor force.



Employment by Occupation

Table 7 below presents employment in the Southern Tier region by occupational category.² While information on industry relates to the type of business conducted by a person's employer, occupation describes the kinds of work a person performs on the job.

Table 7: Occupational Employment Statistics, So	uthern Tier Region		
Occumentianal Cucum	Employm	Median Annual	
Occupational Group	Number	Percent	Wages
Office and Administrative Support	44,340	16.7%	\$29,220
Education, Training, and Library	28,010	10.6%	\$46,950
Sales Related	24,490	9.2%	\$22,370
Food Preparation and Serving Related	21,990	8.3%	\$18,960
Production Related	20,900	7.9%	\$32,240
Health Care Practitioners and Technicians	18,850	7.1%	\$58,370
Transportation and Material Moving	13,100	4.9%	\$27,560
Health Care Support	10,530	4.0%	\$27,460
Management	10,370	3.9%	\$85,380
Installation, Maintenance, and Repair	9,700	3.7%	\$37,560
Construction and Extraction	9,540	3.6%	\$40,050
Building and Grounds Cleaning and Maintenance	9,210	3.5%	\$22,500
Business and Financial	8,390	3.2%	\$56,410
Architecture and Engineering	7,480	2.8%	\$69,210
Personal Care and Service	6,940	2.6%	\$20,750
Community and Social Services	5,600	2.1%	\$39,940
Protective Service	5,130	1.9%	\$49,210
Computer and Mathematical	4,060	1.5%	\$59,900
Arts, Design, Entertainment, Sports, and Media	2,820	1.1%	\$37,160
Life, Physical, and Social Science	2,110	0.8%	\$55 , 670
Legal	1,060	0.4%	\$85,950
Farming, Fishing, and Forestry	430	0.2%	\$29,260
Total, All Occupations	265,070	100.0%	\$33,920

Source: New York State Department of Labor, Occupational Employment Statistics Survey, and E.M. Pemrick and Company.

Six major occupational groups account for 60% of the total employment in the Southern Tier region: office and administrative support, education and training, sales related, food preparation, production related, and health care practitioners and technicians.

Generally speaking, about 63% of the workforce in the region is in traditionally "white-collar" occupations and 20% is in traditionally "blue-collar" occupations; the remaining 16% are employed in

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² Based on the Standard Occupational Classification (SOC) system, which organizes the occupations held by workers into 22 major occupational categories. Data are provided for the Southern Tier region rather than the Binghamton MSA to facilitate comparison with the long-term projections (which are only available by region) in the next section.



service occupations. Compared to the U.S. as a whole, the Southern Tier has a higher concentration of its workforce (as indicated by location quotients exceeding 1.20) in education, training, and library occupations (1.61), architecture and engineering (1.57), community and social services (1.41), and health care practitioners and technicians (1.28). Many of these occupations are associated with key sectors of the economy, such as education and health care, although engineers are employed by a broad spectrum of industries.

A recent report from the NYS Department of Labor examines science and engineering (S&E) jobs in the state based on National Science Foundation definitions. In 2010, there were 312,660 S&E jobs in New York State, accounting for 3.7% of all statewide employment. Within the state, the share of the workforce engaged in S&E occupations was highest in the Southern Tier region, at 5.2%. The Southern Tier workforce also had the highest proportion of engineers, physical scientists, and mathematical scientists than any other region. The article concludes: "While most S&E jobs require more years of college, the stronger employment outlook and higher wages they offer often seem worth the investment." Workers with skills in science and engineering are expected to be in great demand as the economy becomes more knowledge-intensive.³

Occupations in Demand

Workforce projections developed by the NYS Department of Labor indicate that the *fastest growing* occupational categories in the Southern Tier over the ten-year period from 2010 to 2020 will be personal care and service occupations, health care support occupations, health care practitioners and technical occupations, and computer and mathematical occupations (**Table 8**). However, the top occupational categories will have the largest number of openings, mostly to replace existing workers who change jobs or retire.

³ "Down to a Science: Science and Engineering Jobs in NYS," *Employment in New York State*, July 2011. Accessed at http://www.labor.ny.gov/stats/pdfs/enys0711.pdf.



Table 8: Long-Term Workforce Projections by Occupational Categories, Southern Tier						
Description	Projected Chang	(e, 2010-20	Annual Average Openings			
Description	Percent	Net	Replacement*	Total**		
Personal Care and Service	18.1%	2,070	270	480		
Health Care Support	12.9%	1,540	170	320		
Health Care Practitioners and Technicians	12.2%	2,660	440	710		
Computer and Mathematical	10.7%	510	100	150		
Transportation and Material Moving	9.6%	1,480	370	520		
Community and Social Services	9.6%	640	150	210		
Food Preparation and Serving Related	8.1%	1,880	860	1,050		
Construction and Extraction Occupations	8.1%	1,030	270	380		
Business and Financial	7.6%	780	210	290		
Legal	7.1%	130	30	40		
Arts, Design, Entertainment, Sports, and Media	7.0%	430	160	210		
Installation, Maintenance, and Repair	6.8%	740	240	320		
Building/Grounds Cleaning and Maintenance	5.6%	700	220	290		
Education, Training, and Library	5.6%	1,860	680	870		
Sales Related	5.5%	1,500	870	1,030		
Life, Physical, and Social Science	3.9%	100	80	100		
Protective Service	2.0%	110	140	160		
Office and Administrative Support	1.8%	890	1,030	1,230		
Production Related	0.4%	90	440	530		
Management	0.3%	40	280	310		
Architecture and Engineering	-0.4%	-30	180	200		
Total, All Occupations	6.2%	19,140	7,210	9,410		

Source: New York State Department of Labor, Occupational Employment Statistics Survey, and E.M. Pemrick and Company.

Other categories projected to grow at above-average rates in the eight-county region include transportation and material moving occupations, community and social services occupations, food preparation and serving related occupations, and construction occupations.

Workforce Commutation Patterns

Produced by the U.S. Census Bureau in conjunction with the Local Employment Dynamics program, OnTheMap is an online application that provides information on where workers are employed and where they live with companion reports on age, earnings, industry distribution, and other local workforce indicators. It can be used to determine where workers who are employed in a specific geographic location live, how many jobs are located within a certain distance of an educational

^{* -} Net replacement openings is an estimate of the need for new work force entrants to replace workers who leave an occupation and start working in another occupation, stop working altogether (i.e., retire) or leave the geographic area.

^{** -} Total job openings represent the sum of employment increases and net replacements. If employment change is negative, job openings due to growth are zero and total job openings equals net replacements.



facility, or what the workplace destinations are for residents living in a particular neighborhood. The data provide planners, economic development specialists, job seekers, employers, and other users with information needed to understand workforce commutation patterns.

The figures below indicate where individuals employed in Broome County live. The analysis is restricted to those working in primary jobs as of 2010, the most recent year for which data are available.4 (Primary jobs include both public- and private-sector jobs covered under the state unemployment insurance system. A primary job is the highest paying job for an individual worker for the year.)

In the map below, employment locations in the County are represented by the blue thermal density overlay showing jobs per square mile. Work locations are also aggregated into census blocks in the Points Overlay - each block represented by one blue dot. The map reflects the fact that employment is concentrated in the City of Binghamton and stretches west into Johnson City, Endicott, and eventually Owego (Tioga County) along Route 17. There are also clusters of employment at industrial parks in Conklin and Kirkwood.

Overall, 68.1% of those employed in Broome County reside within the Binghamton MSA; this includes approximately 51,393 Broome County residents and 5,855 commuting from neighboring Tioga County. workers travel from other metro areas in upstate New York, including Syracuse (3.3%), Albany-Schenectady-Troy (2.4%), Rochester (2.1%), and Buffalo-Niagara Falls Broome County also attracts in-

Table 9: Job Counts by Distance Traveled from Home, Broome County Laborshed					
	Count	Share			
Less than 10 miles	46,996	55.9%			
10 to 24 miles	13,829	16.5%			
25 to 50 miles	5,269	6.3%			
Greater than 50 miles	17,929	21.3%			

Source: U.S. Census Bureau, OnTheMap Application and LEHD Origin-Destination Employment Statistics. Note: Due to differences in methodology, the job counts shown are not comparable to those from other sources.

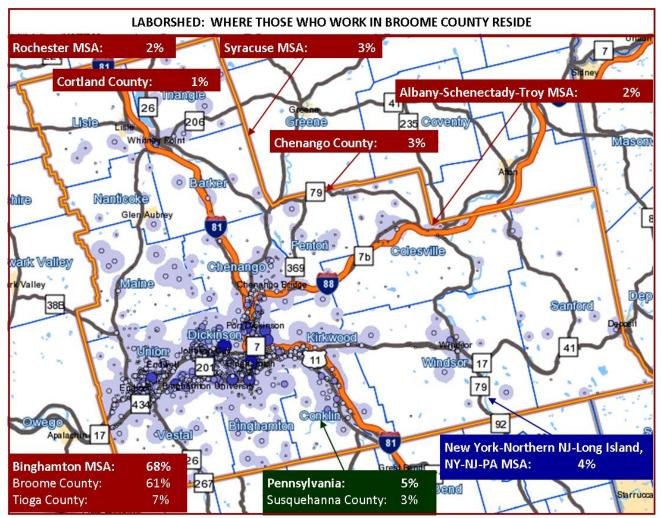
commuters from as far away as the New York-Northern New Jersey-Long Island metropolitan area. The proportion of workers from "downstate" is surprisingly high - 3.9% - but these employees do not appear to be concentrated at any one location.⁵

Broome County draws a sizable part of its workforce, about 5%, from over the border in Pennsylvania. The majority (2,726) commute from adjacent Susquehanna County, with several hundred coming from Bradford County.

Data used to develop the Laborshed and Commutershed profiles was extracted from the U.S. Census Bureau, Local Employment Dynamics (LED) Origin-Destination Database which is utilized in LED's OnTheMap application.

⁵ Initially, it was speculated that the 3,298 workers from the NYC metro area might be employees of BAE and IBM, both of which have facilities downstate. It turns out, however, that these workers from downstate are employed in multiple communities, including the City of Binghamton (1,039) and the Towns of Union (846), Vestal (606), and Dickinson (503). The majority are employed in the service sector: e.g., education, health care, or professional services. 144





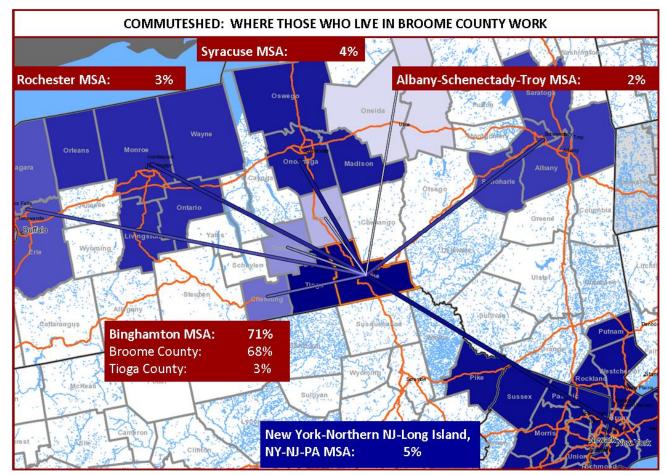
The commuteshed, the area in which Broome County residents are employed, is slightly more compact than the labor shed (because the County is a net importer of labor). Approximately 72% of County residents work in the Binghamton MSA, most in Broome County itself. Nearly 3,000 residents (3.9%) commute to work in the Syracuse metro area and 1,944 (2.6%) to the Rochester metro area. Relatively few

Table 10: Job Counts by Distance Traveled from Home, Broome County Commuteshed					
Discourse country commutes.	Count	Share			
Less than 10 miles	46 , 127	61.1%			
10 to 24 miles	9,221	12.2%			
25 to 50 miles	3,603	4.8%			
Greater than 50 miles	16,605	22.0%			

Source: U.S. Census Bureau, OnTheMap Application and LEHD Origin-Destination Employment Statistics. Note: Due to differences in methodology, the job counts shown are not comparable to those from other sources.

Broome County residents are employed in Pennsylvania. However, more than 5% of those who reside locally apparently commute to jobs (mostly in the service sector) based in the New York City metropolitan area.





Of the more than 30,000 people leaving the Binghamton metro area to work each day, 8,589 (28%) are young people age 29 and under. These young adults are more likely than workers of other ages to travel more than 50 miles for employment.

The data from OnTheMap clearly show that Broome County has a relatively large laborshed, drawing workers from other parts of upstate New York as well as Pennsylvania and the New York City metropolitan area. On the other hand, the majority of employed residents *living* in Broome County work in the Binghamton MSA. Broome County's geographic location and interstate access facilitate travel to and from other regions of the state. This is an asset not only for the local workforce, but also for the companies that locate in Broome County.

Employment Dynamics

This section assesses various employment dynamics in Broome County based on data from the U.S. Census Bureau's Longitudinal Employer-Household Dynamics (LEHD) program. The LEHD program provides Quarterly Workforce Indicators (QWIs) including employment, new hiring activity,



turnover rates, and earnings that can be analyzed by geography, age, gender, and educational attainment.⁶

Employment by Age

The majority of those employed by the private sector in Broome County are between the ages of 25 and 54 – prime working-age – with the largest share (24.8%) comprised of individuals ages 45 to 54.

The aging of the Baby Boom generation has led to an increase in the proportion of workers age 55 years and older, however. In 2000, 12.3% of workers in private industry in Broome County were age 55 and over, while 20.8% are in this age group today. At the same time, the percentage of workers in the 25-54 age group declined from 69.8% to 63.4%.

As shown in **Table 11**, 16.4% of workers in private industry in Broome County are 55-64 and 4.4% are age 65 and over. Industry sectors with higher than average percentages of older workers include manufacturing (27.3%), real estate and rental and leasing (27.0%), finance and insurance (26.2%), and transportation and warehousing (25.3%). More than one in four workers employed in the production of computers and electronics, machinery, and fabricated metals is age 55 and over. There is also a relatively high proportion of retirement-age workers among insurance carriers and social assistance providers in Broome County.

Industries with a high proportion of workers approaching retirement age may need to plan for increased recruiting efforts and training programs to address the loss of older workers. Possible options include bringing in experienced employees from outside the region, hiring individuals with similar skills from other industries, or encouraging workers to delay their retirement by offering flexible schedules or higher pay. It is likely that some job openings will remain vacant, with responsibilities shifted to other employees. Training and mentoring will be necessary to minimize the loss of institutional knowledge. Employers may look to technology to reduce their reliance on labor. Technological changes not yet identified could even make certain categories of employment obsolete.

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⁶ Due to differences in methodology, QWI employment counts are not comparable to those from other sources. Workforce Profile



	Young	Prim	Prime Working-Age			Pre- and Post-	
	roung	Pilli	e working-	Age	Retireme	ent Age	Total,
	14-24	25-34	35-44	45-54	55-64	65-99	55+
All Industry Sectors (Public and Private)	13.5%	19.1%	18.8%	26.1%	17.8%	4.7%	22.5%
All Private Industry Sectors	15.8%	20.2%	18.4%	24.8%	16.4%	4.4%	20.8%
Manufacturing	5.0%	13.3%	18.2%	36. 1%	24.2%	3.1%	27.3%
Real Estate and Rental and Leasing	9.9%	19.3%	19.1%	24.7%	19.6%	7.4%	27.0%
Finance and Insurance	4.7%	19.2%	20.8%	29.0%	20.6%	5.6%	26.2%
Transportation and Warehousing	8.3%	14.7%	22.5%	29.0%	18.8%	6.5%	25.3%
Other Services	17.6%	18.9%	17.4%	21.2%	16.6%	8.2%	24.8%
Professional and Technical Services	7.2%	23.2%	19.2%	25.8%	18.2%	6.3%	24.5%
Health Care and Social Assistance	10.0%	20.7%	19.5%	25.5%	19.4%	4.7%	24.1%
Management of Companies	11.3%	19.5%	22.0%	25.1%	17.9%	4.2%	22.0%
Information	8.7%	25.6%	21.7%	24.2%	16.7%	3.0%	19.7%
Wholesale Trade	10.0%	20.3%	22.7%	27.8%	15.2%	4.0%	19.2%
Arts, Entertainment, and Recreation	29.0%	18.8%	15.2%	18.1%	13.2%	5.4%	18.6%
Retail Trade	29.3%	20.0%	14.9%	17.5%	12.9%	5.3%	18.2%
Administrative and Waste Services	17.5%	25.7%	18.4%	21.5%	12.8%	4.0%	16.8%
Construction	9.8%	23.3%	23.3%	29.7%	10.9%	2.9%	13.8%
Accommodation and Food Services	39.6%	25.0%	13.6%	13.0%	6.4%	2.3%	8.7%
Selected Industries (with NAICS Codes)					·		•
Computer and Electronic Product Mfg	0/	0,	0/	0/	0 0/	0,	0.0
(334)	2.3%	12.1%	15.7%	39.1%	28.3%	2.5%	30.7%
Insurance Carriers & Related Activities	0/	.6 -0/	0/	0/	0/	C - 0/	- 0 -0/
(524)	3.5%	16.4%	21.2%	30.2%	22.5%	6.2%	28.7%
Machinery Manufacturing (333)	3.1%	11.1%	16.0%	41.6%	26.6%	1.5%	28.1%
Fabricated Metal Product Mfg (332)	5.1%	12.7%	19.9%	34.3%	22.6%	5.1%	27.7%
Social Assistance (624)	11.1%	21.8%	18.5%	23.0%	18.8%	6.6%	25.4%
Ambulatory Health Care Services (621)	6.8%	18.4%	22.6%	27.3%	19.4%	5.6%	24.9%
Hospitals (622)	9.0%	21.4%	18.5%	26.4%	21.0%	3.6%	24.6%
Truck Transportation (484)	5.1%	14.3%	24.5%	32.7%	18.6%	4.8%	23.4%
Merchant Wholesalers Durable Goods	-						
(423)	8.2%	17.8%	22.1%	29.0%	17.4%	5.4%	22.7%
Nursing and Residential Care Facilities	46 -0/	3	40 -0/	25 50/	40/	0/	0/
(623)	16.1%	21.1%	18.9%	23.3%	15.7%	4.7%	20.4%
Credit Intermediation & Related (522)	8.4%	26.8%	21.2%	25.7%	14.6%	3.3%	17.9%
Food Manufacturing (311)	15 . 4%	15.4%	21.5%	30.7%	15 . 2%	1.4%	16.6%
Merchant Wholesalers Nondurables (424)	11.0%	22.2%	23.5%	27.0%	13.1%	3 . 1%	16.1%
Specialty Trade Contractors (238)	9.8%	23.5%	24.2%	29.2%	10.3%	3.0%	13.3%
Heavy/Civil Engineering Construction (237)	10.4%	25.4%	22.7%	28.6%	10.2%	2.7%	12.9%

Source: U.S. Census Bureau, Local Employment Dynamics Program. Quarterly Workforce Indicators (QWI) data; based on averages for last 4 quarters, ending Q1 2012. Unless otherwise noted, all industries listed are private sector only. Some sectors not shown.



Table 12: Broome County Workforce Dis	stribution	by Gender	and Educ	ational At	tainment	
, , , , , , , , , , , , , , , , , , , ,		,			nd Over Only	,
	Male	Female	Less than HS	HS Diploma	Some College or Associate	Bachelor's Degree or Higher
All Industry Sectors, Public and Private	49.2%	50.8%	8.9%	30.0%	33.4%	27.7%
All Private Industry	50.8%	49.2%	10.1%	31.8%	33.7%	24.4%
Professional and Technical Services	48.5%	51.5%	5.2%	21.7%	31.0%	42.1%
Finance and Insurance	37.3%	62.7%	4.8%	22.4%	32.9%	39.9%
Information	56.8%	43.2%	7.0%	25.1%	31.0%	36.9%
Health Care and Social Assistance	21.3%	78.7%	7.2%	27.0%	38.3%	27.4%
Management of Companies	41.8%	58.2%	7.5%	29.9%	35.2%	27.0%
Manufacturing	71.6%	28.4%	9.2%	33.3%	32.5%	25.0%
Arts, Entertainment, and Recreation	51.3%	48.7%	10.4%	31.6%	32.9%	25.0%
Other Services	41.5%	58.5%	11.2%	32.5%	33.9%	22.3%
Wholesale Trade	78.3%	21.7%	10.2%	34.8%	33.8%	21.3%
Real Estate and Rental and Leasing	65.9%	34.1%	12.6%	33.7%	33.5%	20.1%
Administrative and Waste Services	61.4%	38.6%	14.7%	34.6%	32.2%	18.5%
Transportation and Warehousing	80.5%	19.5%	12.0%	37.5%	33.0%	17.6%
Retail Trade	50.1%	49.9%	12.8%	38.1%	32.7%	16.4%
Accommodation and Food Services	46.1%	53.9%	17.7%	37.4%	30.0%	14.8%
Construction	88.7%	11.3%	13.8%	39.6%	31.7%	14.8%
Selected Industries (with NAICS Codes)						
Insurance Carriers & Related Activities (524)	39.2%	60.8%	4.4%	21.9%	33.2%	40.6%
Credit Intermediation & Related (522)	31.5%	68.5%	6.0%	24.7%	33.6%	35.7%
Computer and Electronic Product Mfg (334)	69.0%	31.0%	6.0%	26.5%	33.1%	34.4%
Ambulatory Health Care Services (621)	20.8%	79.2%	5.8%	24.7%	37.6%	31.9%
Hospitals (622)	21.1%	78.9%	6.1%	25.5%	39.6%	28.8%
Machinery Manufacturing (333)	79.7%	20.3%	7.8%	31.5%	34.2%	26.5%
Social Assistance (624)	22.8%	77.2%	9.9%	30.8%	36.8%	22.6%
Nursing and Residential Care Facilities (623)	21.2%	78.8%	9.8%	31.1%	37.3%	21.8%
Merchant Wholesalers Durable Goods (423)	78.0%	22.0%	9.9%	36.1%	33.2%	20.8%
Merchant Wholesalers Nondurables (424)	79.2%	20.8%	10.6%	35.1%	34.4%	19.9%
Food Manufacturing (311)	67.4%	32.6%	10.2%	40.5%	33.0%	16.3%
Truck Transportation (484)	87.2%	12.8%	11.7%	39.8%	32.6%	15.9%
Heavy/Civil Engineering Construction (237)	89.3%	10.7%	13.6%	41.0%	30.1%	15.3%
Specialty Trade Contractors (238)	89.2%	10.8%	14.0%	39.1%	32.5%	14.4%
Fabricated Metal Product Mfg (332)	83.4%	16.6%	12.8%	41.3%	32.0%	13.9%

Source: U.S. Census Bureau, Local Employment Dynamics Program. Quarterly Workforce Indicators (QWI) data; based on averages for last 4 quarters, ending Q1 2012. Unless otherwise noted, all industries listed are private sector only. Some sectors not shown.



Employment by Gender

As indicated by the data in **Table 12**, the workforce in Broome County is about evenly split between men and women. There are, however, several industry sectors in which either men or women predominate. Among the sectors in which men comprise 70% or more of the workforce are construction, transportation and warehousing, wholesale trade, and manufacturing. The only sector in which women account for a significantly greater share of the workforce is health care and social assistance.

These characteristics are generally consistent with those for the state as a whole: in New York State, the workforce in the construction and transportation and warehousing sectors is disproportionately male, while workers employed in health care and social assistance are disproportionately female.

Employment by Educational Attainment

The LEHD program captures QWI data on the educational attainment of workers in four categories: 1) those with less than a high school diploma; 2) those with a high school diploma or its equivalent; 3) those who have attended some college or have an associate degree; and 4) those who have a bachelor's degree or higher. The data are restricted to workers age 25 years and over.

In **Table 12**, industry sectors are ranked by the percentage of workers with at least a bachelor's degree. Professional and technical services, finance and insurance, and information are the top three sectors; more than a third of the workforce in each of these sectors has a bachelor's degree or higher. Health care and social assistance and management also have above-average proportions of workers with at least a bachelor's degree.

Other industries on the list have lower levels of educational attainment. Construction and hospitality are tied for the lowest, with fewer than 15% of workers possessing a four-year degree.

Contrary to the perception that the manufacturing workforce is not well-educated, there are relatively high rates of educational attainment among workers in computer and electronics and machinery manufacturing in Broome County. Banking and insurance employees also have high levels of educational attainment.

Although each industry relies on a different mix of occupations and skills, understanding the educational attainment of the incumbent workforce in Broome County can help to identify the minimal educational requirements for employment.



New Hires

In the first quarter of 2012, there were more than 10,000 new hires across all industry sectors in Broome County (**Table 13**). Nearly two-thirds of the hiring activity occurred in five industry sectors: accommodation and food services, retail trade, administrative services and waste management, health care, and construction.

Table 13: Volume of New Hires by Industry and Age, Broome County						
	Total	14-24	25-44	45-54	55-64	65-99
All NAICS Sectors, Public and Private	10,515	4,109	4,140	1,415	674	177
All Private Industry	9,645	3,748	3,841	1,311	591	154
Accommodation and Food Services	1,880	1,068	615	133	47	17
Retail Trade	1,625	829	536	156	81	23
Administrative and Waste Services	1,437	476	664	197	80	20
Health Care and Social Assistance	1,154	349	507	189	89	20
Construction	831	160	404	193	64	10
Manufacturing	523	150	206	107	52	8
Other Services	456	182	172	56	32	14
Wholesale Trade	449	127	201	82	35	4
Professional and Technical Services	291	90	124	40	27	10
Government	267	117	75	37	30	8
Arts, Entertainment and Recreation	241	130	75	22	14	0
Real Estate and Rental and Leasing	164	46	74	26	14	4
Transportation and Warehousing	144	33	61	30	16	4
Information	141	48	61	22	10	0
Finance and Insurance	112	30	53	20	9	0

Source: U.S. Census Bureau, Local Employment Dynamics Program. Quarterly Workforce Indicators (QWI) data; based on averages for last 4 quarters, ending Q1 2012. Unless otherwise noted, all industries listed are private sector only. Some sectors not shown.

It is important to note that the number of new hires does not directly equate to an increase in total employment. The new hires count is simply an indication of hiring activity in an industry. Workers may be hired to fill newly created jobs, or to replace workers who have left (or both). Separations, both voluntary (retirement, leaving for a new job) and involuntary (layoffs, firings) account for the other half of the employment change equation.

Men accounted for 53% of the new hires. With respect to age, the number of new hires ranged from 177 among those age 65 and over to 4,140 among those between the ages of 25 and 44.



The average monthly earnings of new hires across all industries were about \$2,000. The highest earnings for new hires were in finance and insurance, followed by manufacturing, construction, and professional and technical services. Within these sectors, earnings average were especially high for new hires in machinery manufacturing (\$5,987),computer electronics manufacturing (\$5,888), and computer systems design and related services $($5,872).^7$

A high ratio between new hire earnings and the earnings of all workers in that industry suggests that employees are being hired for high-level positions, or that there is an

Table 14: New Hire Earnings by Industry, Broome County			
	Average Monthly		Ratio of New Hires
	Earnings All		vs. All
	New Hires	Workers	Workers
All NAICS Sectors, Public and Private	\$1,997	\$3,594	55.6%
All Private Industry	\$2,016	\$3,468	58.1%
Finance and Insurance	\$3,635	\$4,919	73.9%
Manufacturing	\$3,632	\$4,864	74.7%
Construction	\$3,394	\$ 4, 381	77.5%
Professional and Technical Services	\$3,286	\$4,570	71.9%
Wholesale Trade	\$2,977	\$4,067	73.2%
Management of Companies	\$2,735	\$4,259	64.2%
Information	\$2,425	\$3,561	68.1%
Health Care and Social Assistance	\$2,349	\$3,897	60.3%
Transportation and Warehousing	\$2,328	\$3,342	69.7%
Real estate and Rental and Leasing	\$1,987	\$2,772	71.7%
Administrative and Waste Services	\$1 , 757	\$2,407	73.0%
Arts, Entertainment and Recreation	\$1,433	\$1,424	100.6%
Other Services	\$1,244	\$1,845	67.4%
Retail Trade	\$1,233	\$2,116	58 . 3%
Accommodation and Food Services	\$919	\$1,293	71.1%

Source: U.S. Census Bureau, Local Employment Dynamics Program. Quarterly Workforce Indicators (QWI) data; based on averages for last 4 quarters, ending Q1 2012. Unless otherwise noted, all industries listed are private sector only. Some sectors not shown.

unusually strong demand for labor. This was the case with finance and insurance, construction, manufacturing, and arts, entertainment, and recreation, as well as with significant Broome County industries such as machinery manufacturing (112.1%), computer and electronics manufacturing (97.4%), insurance carriers (84.2%), and nondurable goods wholesalers (77.8%).

Employee Turnover

The employee turnover rate is a measure of workforce stability; it measures the movement of workers into and out of jobs, including retirements. In Broome County, the average quarterly turnover rate for all private sector workers (over the last four quarters, ending Q1 2012) was 8.9%. This is comparable to a turnover rate of 9.0% for New York State overall during the same period.

Turnover rates vary by industry and age: for example, teens and young adults tend to have relatively high turnover rates, and employee turnover is generally higher in low-wage industries such as retail and food services.

⁷ NAICS 333, 334, and 5413, respectively. Workforce Profile



Rates of turnover also indicate the extent to which employers will be able to find replacements for workers who are retiring or leaving for other jobs. Industries with relatively high turnover rates may find it easy to find replacements; those with low rates of turnover may face challenges in recruiting individuals with specific skill sets.

Local Employment Dynamics data indicate that in Broome County, the lowest turnover employee rates are manufacturing, followed by finance and insurance. The turnover rate is particularly low in some of the County's largest computer and electronics industries: manufacturing (2.6%), insurance carriers (3.6%), and hospitals (3.9%).

On one hand, low employee turnover reflects a stable workforce. However, low rates of turnover combined with a large proportion of workers close to retirement age indicates the potential for labor shortages in certain industries. Indeed, as previously mentioned, there is a correlation between turnover and age.

The question is whether the aging of the workforce in Broome County can be

Table 15: Employee Turnover Rates in			
Selected Industry Sectors			
	Broome County	New York State	
All NAICS Sectors, Public and Private	7.9%	8.2%	
All Private Industry	8.9%	9.0%	
Construction	15.0%	12.6%	
Manufacturing	4.6%	5.4%	
Wholesale Trade	7.1%	6.5%	
Retail Trade	11.2%	10.4%	
Transportation and Warehousing	8.8%	8.0%	
Information	5.8%	8.3%	
Finance and Insurance	5.4%	6.2%	
Professional and Technical Services	7.4%	8.3%	
Health Care and Social Assistance	5.8%	7.4%	
Accommodation and Food Services	15.4%	14.2%	
Arts, Entertainment, and Recreation	20.3%	14.7%	
Real Estate and Rental and Leasing	9.0%	6.5%	
Management of Companies	5.6%	7.0%	

Source: U.S. Census Bureau, Local Employment Dynamics Program. Quarterly Workforce Indicators (QWI) data; based on averages for last 4 quarters, ending Q1 2012. Unless otherwise noted, all industries listed are private sector only.

addressed in the near future. As workers in certain industries begin to retire, will they be replaced with individuals with similar levels of educational attainment and skill? Are local colleges and universities and training providers preparing people for these jobs? Or will businesses in the County need to recruit people from other locations? These are questions that must be considered in the context of the comprehensive plan and economic development initiatives in Broome County, the Southern Tier, and New York State.

Education and Training Programs

Career and Technical Education

Broome-Tioga BOCES serves 15 school districts in the Binghamton MSA, including all 12 districts in Broome County. It offers Career and Technical Education (CTE), primarily on a half-day basis, to high school juniors and seniors from component districts. CTE courses provide students an opportunity to learn job skills through instruction and hands-on experience. Successful students



are prepared to enter the workforce, earn a technical degree, and/or advance to college with credits earned through articulation agreements. CTE content areas include:

- Automotive Technology
- Building Trades
- Business/Communications
- Health Science
- Manufacturing
- Personal Services (e.g., culinary arts, food industry, cosmetology)

According to Broome Tioga Workforce New York, the manufacturing program has been a "hard sell" to young adults, and BOCES no longer offers CNC/machining courses to high school students. Students in the building trades program attend classes in carpentry, masonry, and electricity. A plumbing/HVAC class is not currently offered due to the cost of equipment and the reorganization of class space on campus, but is expected to be reinstated in the future.

Other BOCES programs include New Visions, an academically rigorous program for college-bound high school seniors interested in careers in health, education, engineering, or law and government; alternative education for youth deemed to be at-risk; a GED program for students ages 16 to 21 who are unlikely to complete the requirements for a high school diploma; and adult CTE programs enabling participants to access employment or career advancement.

Colleges and Universities

An important aspect of the labor supply is college enrollment, and the number of annual graduates within specific programs. As of fall 2011, there were 20,946 students enrolled at Binghamton University and Broome Community College, the majority (86.2%) as undergraduates. If all post-secondary educational institutions in the Southern Tier plus neighboring Cortland County are counted, there are nearly 62,000 students attending colleges in and around Broome County.

Table 16: Colleges and Universities in the Region			
Name	Location	Enrollment: Total / Undergraduate	
Binghamton University (SUNY Binghamton)	Broome County	14,746 / 11,861	
Broome Community College	Broome County	6,200 / 6,200	
SUNY Cortland	Cortland County	7,331 / 6,371	
Tompkins Cortland Community College	Tompkins County	5,662 / 5,662	
Cornell University	Tompkins County	21,131 / 14,167	
Ithaca College	Tompkins County	6,760 / 6,276	

Source: U.S. Department of Education, National Center for Educational Statistics.



Within Binghamton University (BU) are seven schools and colleges: Harpur College of Arts and Sciences, Decker School of Nursing, the School of Management, Watson School of Engineering and Applied Science, the College of Community and Public Affairs, the School of Education, and the Graduate School. Harpur College comprises about 65% of undergraduate enrollment, followed by the Watson School, with 16%.

In the 2011-12 school year, Binghamton University (BU) awarded a total of 3,121 bachelor's degrees. The number of bachelor's degrees was highest in the social sciences (474); business, management, and marketing (452), including accounting and finance; psychology (297); engineering (290), including mechanical, industrial, and electrical engineering and bioengineering; biology and biomedical sciences (279); and English language and literature (243). BU also has a registered nursing program which had 169 graduates.

According to the BU website, 20% of undergraduates go on to receive a graduate degree from the university. In 2011-12, BU awarded 833 master's degrees, with the largest numbers in business (204) and engineering (137).

Broome Community College (BCC) awarded 1,046 associate's degrees in the 2011-12 school year. The number of two-year degrees was highest in liberal arts and sciences (435), health professions and related programs (185), and business (160). BCC has one of the largest health sciences programs of any community college in the state, drawing students from Pennsylvania as well as New York. It also has a strong engineering program; many graduates transition to engineering programs at BU.

Recognized as critical community assets, both Binghamton University and Broome Community College are continuing to pursue opportunities for growth: BU with the development of high-tech research centers to stimulate innovation and spin-off job creation; BCC with the creation of new facilities to house students from outside the County and accommodate an expanding hospitality program. Both institutions are involved with efforts to construct a high technology incubator in downtown Binghamton, and they maintain close relationships with many of the region's major employers, eager to contribute to Broome County's economic development.

Training

The Broome Tioga Workforce Investment Board (WIB) serves as the administrative entity for federal Workforce Investment Act (WIA) funds in Broome County. It operates the Broome Employment Center in Binghamton (and a similar facility in Owego, Tioga County), where visitors can receive information about demand occupations and training opportunities, access job listings, participate in computer workshops, or meet with an employment counselor for help finding a job.

According to the Broome Tioga Local Plan for FFY 2012, current and projected demand occupations in the local area include:



- Health care practitioners and technical occupations: Registered nurses, physical therapists, medical and clinical laboratory technicians, dental hygienists, emergency medical technicians and paramedics, licensed practical and licensed vocational nurses, medical records and health information technicians, physician assistants, nurse practitioners
- Health care support occupations: Home health aides, nursing aides, orderlies and attendants, occupational therapist assistants and aides, physical therapy assistants and aides, dental assistants, medical assistants, personal care aides
- Transportation occupations: Heavy and tractor-trailer truck drivers; laborers and freight, stock, and material movers; industrial truck and tractor operators, light truck or delivery service drivers
- Production occupations: Team assemblers, computer-controlled machine tool operators, multiple machine tool setters and operators, welders
- Construction and extraction occupations: Brick masons; carpenters; electricians; plumbers, pipe fitters, and steamfitters; construction workers; sheet metal workers

The plan adds: "Based on the number of job openings posted by regional employers, United Health Services and Lourdes Hospital, multiple extended care facilities and nursing homes, the Board has determined that all levels of Healthcare Support Occupations and Healthcare Practitioners are considered High Demand occupations in the Broome Tioga LWIA. Second to Healthcare occupations are occupations in the Transportation industry targeted primarily to tractor-trailer drivers and warehousing positions. Many of the driver openings are a result of the increased hauling of equipment and water related to the natural gas industry."

Eligible Broome County residents can use federal WIA funds to pay for training programs that have been WIA-certified. Training programs consist of one or more courses that, upon successful completion, lead to credentials such as a diploma, industry-recognized certificate or licensure, associate degree, or bachelor's degree. The process provides standards that training providers must meet in order to receive WIA training dollars.

The NYS Department of Labor lists the following eligible training providers in Broome County:

- Broome County Urban League
- Broome Community College
- Broome-Tioga BOCES
- Family Enrichment Network, Inc.
- Link Environmental Services

- Local 325 IBEW Joint Apprenticeship Program
- Maines Driver Training Institute
- SAGE Truck Driving School CDL Training
- SUNY Empire State College
- Upstate Training



Three of the providers – Family Enrichment Network, Maines Driver Training Institute, and the Sage Truck Driving School – offer CDL truck driver training. Others, including the Local 325 IBEW, Link Environmental Services, and Broome-Tioga BOCES, provide training in the construction trades. The vast majority of the training is through Broome-Tioga BOCES and Broome Community College. They offer certificate and associate's degree programs in fields such as accounting, office administration, computer science, health care, engineering technology, criminal justice and homeland security, hotel and restaurant management, and early childhood education.

The Broome Tioga WIB is currently involved in a sector-based training initiative to train individuals for employment in the gas extraction industry. Known as ShaleNET, this initiative is being funded by a three-year, multi-state grant from the U.S. Department of Labor. The mission of the grant is to design a comprehensive recruitment, training, placement, and retention program for high-priority occupations in the natural gas drilling and production industry throughout the Marcellus Shale footprint.

Applicants have been screened and assessed prior to enrolling in the ShaleNET training or in an introduction to gas drilling funded by the state. It is anticipated that 40-45 individuals will be trained for jobs related to this industry sector. Although New York State has not yet approved Marcellus shale gas extraction, it is anticipated that trained workers will be able to fill job openings in border Pennsylvania counties.

On-the-job training (OJT) contracts have also been a means for local employers to hire and train new employees. The Broome-Tioga WIB can reimburse employers for up to 90% of an individual's wages while that individual is participating in OJT. Some OJT contracts are paid for out of WIA funds, others through a National Emergency Grant OJT program. Broome-Tioga has been one of the major users of this statewide grant as it has been very successful in returning unemployed adults and dislocated workers back to employment.

Broome County companies with OJT contracts in FFY 2012 have included Arctic Bear Plumbing, BlueStorm Technologies, Crowley Fabricating, Devonian Stone, Evolution Consulting, Foam It Insulation, Modern Marketing Concepts, R&M Small Engine Repair, STCR Business Systems, TeamWorld, and Triple Cities Metal Finishing. The types of positions for which workers are being trained range from customer service and sales representatives to HVAC and small engine technicians, from data entry specialists to machinists and sheet metal fabricators. Nearly \$400,000 has been committed to OJT contracts to date.

The Broome-Tioga WIB is also engaged in a Chamber of Commerce OJT program that was awarded through a legislative member item. Broome-Tioga conducts much of the matching and completes all of the jobseeker assessment and required data entry; the Greater Binghamton Chamber of Commerce writes the contract and issues the payments to the employer. The additional funding has helped to increase job placements in the area.



Within the context of the Southern Tier REDC's Strategic Economic Development Plan, the Workforce Investment Boards in the Southern Tier, including the Broome-Tioga WIB, have committed to targeting resources and identifying additional resources to train or upgrade the skills of the energy sector workforce. The Energy Workforce Development Initiative will "develop a highly qualified and vibrant workforce prepared to respond to the opportunities resulting from the emergence of the energy industry in the Southern Tier for projects such as wind farm construction and maintenance; weatherization of homes, businesses, and public buildings for maximum efficiency; retrofit of residential and commercial facilities for efficiency improvements and installation of biomass heating systems; expanded research and manufacturing of existing and new solar energy technology products; increasing energy efficiency use in buildings through improved weatherization and application of electricity-saving technologies; and natural gas extraction and operations." The intention of the initiative is to offer skills that are adaptable as the energy industry evolves. Other workforce development system tasks to implement regional strategies are shown in **Table 17**.

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⁸ Southern Tier Regional Economic Development Council, *Strategic Economic Development Plan: 2011–2016*, p. 118. Workforce Profile



Table 17: Southern Tier Workforce Development Priority Goals and Tasks, 2012 – 2013				
Goal	Action Item	Tasks		
Strategy 1. The Southern Tier New York's Leader in Energy Efficiency and Renewable Energy Technology Residential and Small Scale Commercial Retrofit Energy Development Alliance for New York EDANY	 Assist customers in identifying and attending local BOCES and community colleges in renewable energy and energy efficiency-related programs. Pursue grant opportunities that target energy efficiency and renewable energy occupations. 			
	 Identify existing energy sector career marketing materials; review and create regional materials for marketing. Promote energy sector careers distribution of energy sector related marketing materials to youth, adults and dislocated workers. 			
Strategy 2. Southern Tier Transportation Alliance: Building Next Generation Technology and Manufacturing	Southern Tier Transportation Industry Cluster	 Jointly promote advanced manufacturing sector related careers utilizing the Workforce NY Career Centers in the Southern Tier region as well as connections with school districts, youth program providers, etc. Assist customers in identifying and attending local BOCES and community colleges in advanced manufacturing related programs. This includes financial assistance, if funding is available. Seek out and fund on-the-job training opportunities with advanced manufacturing employers as funding is available. Identify and apply for additional advanced manufacturing training funding. Assist employers in posting their advanced manufacturing 		
Strategy 3. Health Care 2020 Integrating Health Care Providers, Higher Education and Cutting-Edge Technology Strategy 4.	All	 positions and searching the talent bank for qualified employees. Review existing health career marketing materials and career information, create new ones where necessary. Promote health careers through Workforce NY Career Centers in the Southern Tier, WIA youth programs, and existing relationships with other youth program providers and school districts. Assist employers in posting their health care positions and searching the talent bank for qualified employees. 		
Revitalize the Rural Farm- and Forest- Based Economy	All	Assist businesses with recruitment for agricultural occupations		
Strategy 5. Strengthen the Region's Economic Development Backbone	All	 Assist employers in posting construction/building trades-related positions and searching the talent bank for qualified employees 		

Source: Southern Tier Regional Economic Development Council, Strategic Economic Development Plan: 2011–2016 and Southern Tier REDC Workforce Development Work Group, Work Plan Template – Workforce Development Priority Goals and Strategies, 2012-2013.