

REGIONAL INSTITUTE URBAN DESIGN PROJECT

Filling the Skills Gap: Pathways to Manufacturing Careers Case Study Forum

Current Local Manufacturing Challenges and Opportunities

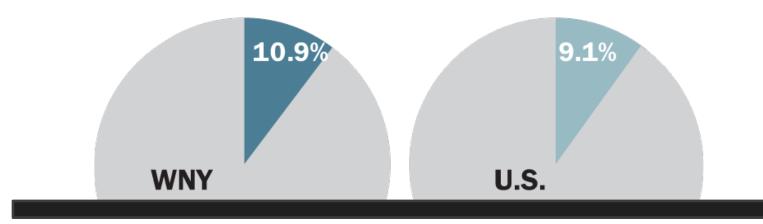
Robert G. Shibley, Dean of the University at Buffalo's School of Architecture and Planning



REGIONAL INSTITUTE URBAN DESIGN PROJECT

Manufacturing continues to play a key role in WNY, accounting for one out of every nine jobs in the region.

Manufacturing employment as a share of total economy in...

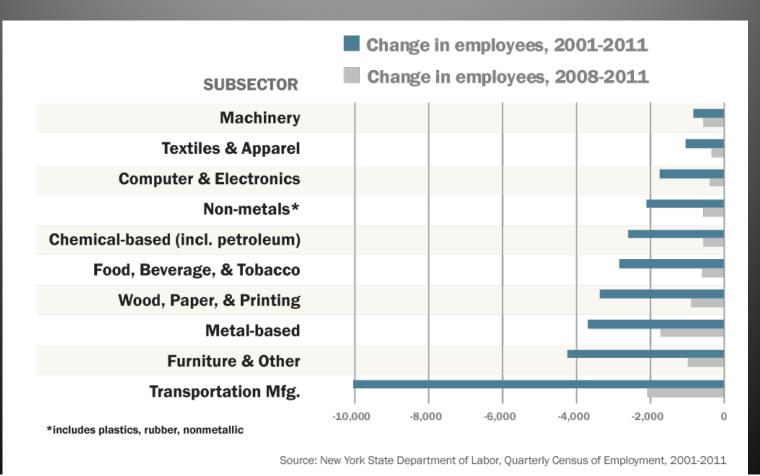


Source: New York State Department of Labor, Quarterly Census of Employment, 2011, U.S. Bureau of Labor Statistics, 2011, Employment by Industry.



REGIONAL INSTITUTE URBAN DESIGN PROJECT

Regional manufacturers have continued to significantly cut back





REGIONAL INSTITUTE URBAN DESIGN PROJECT

Mid to higher level skills required by manufacturing employers

	# Common Manufacturing Jobs Requiring Mid to Higher Level of Skill				
Critical Thinking	12,650				
Reading Comprehension	12,650				
Active Listening	10,580				
Speaking	9,720				
Monitoring	9,000				
Operation Monitoring	8,540				
Operation and Control	7,000				
Writing	6,950				
Quality Control Analysis	6,470				
Complex Problem Solving	6,180				

Source: Skills by occupation from the 0*NET Database were used to assess what higher level skills are needed by jobs that account for 1% of more of manufacturing employment.

REGIONAL INSTITUTE URBAN DESIGN PROJECT

Fewer than
2,000 graduates
a year earn a
certificate or
degree in a
manufacturingrelated field

	ates	te's	or's	ູທ	ıl/ ional	
	Certificates	Associate	Bachelor's	Master'	Doctoral/ Profession	TOTAL '10-'11
Engineering and Related Technologies	24	299	688	353	62	1,426
Mechanic and Repair Technologies	17	207	0	0	17	224
Construction Trades and Production	56	160	25	0	56	241

Source: These degrees include those issued by the four area community colleges (Erie Community College, Niagara Community College, Genesee Community College and Jamestown Community College) and the five colleges in the region that offer degrees in these fields. These include Buffalo State, University at Buffalo, Alfred State, Alfred University and ITT Technical Institute.