

# CA Workforce Investment Board Advanced Manufacturing and Workforce Development Council



**Orange County**

**Workforce Investment Board**

*Linking Business & People*



# A Shared Strategy



# OC Regional Workforce & Economic Development Network “The Network”

- Consistent with the strategic framework of The State Working Group
- It serves as the vehicle for bringing businesses, labor, education, economic development and others to identify and address the regional workforce challenges, especially as they relate to the key industry clusters of the County
- The Network is a hub for dialog, information sharing, planning, and development of resource strategies

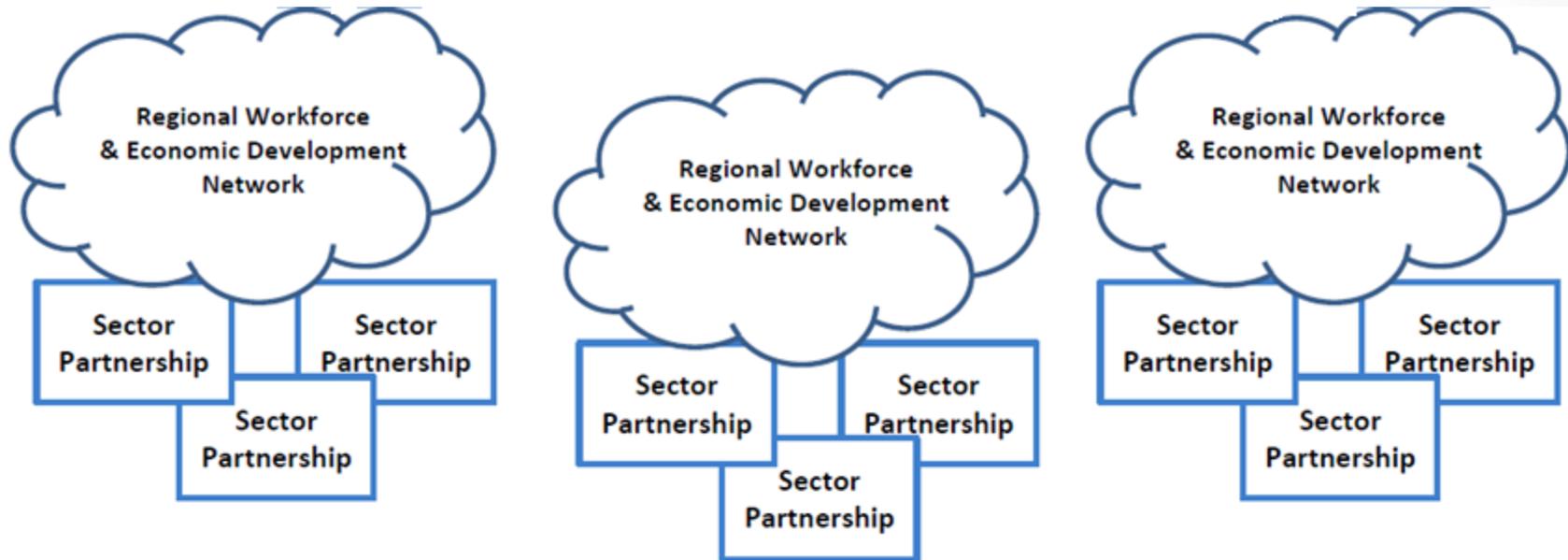


# Network Focus Areas

- Identifying key competitive and emerging industries
- Aligning, coordinating, and integrating Orange County's resources to support the development of industry-specific partnerships in those targeted industries
- Working to minimize or eliminate policy and administrative barriers to the alignment of multiple public programs and funding streams
- Identifying and accessing additional federal, state, private and philanthropic resources to sustain the network, invest in specific programs, and support sector initiatives
- Collaborating with Sector Partnerships



# Networks Informed by Sector Partnerships



# Roles of Sector Partnerships

- Identify current and anticipated skill needs within industries
- Map out and establish career pathways in the targeted industry sectors
- Integrate programs and braiding funding streams along career pathways, and providing supportive services for underprepared students and workers
- Develop training curriculum and/or adjust existing curriculum
- Develop common systems to track participant success
- Provide students and workers with industry valued skills certifications, credentials, and degrees at multiple points along career pathways
- Develop other strategies to support industry workforce needs and worker career advancement



# Orange County Cluster Job Growth

Industry Sector	2009	2010	2011	2012
Energy/Environment & Green Technology	22,352	21,689	21,304	21,661
Information Technology	26,957	24,520	23,456	23,989
Biotechnology	33,732	33,951	36,104	40,126
Construction	72,175	68,209	69,204	69,347
Logistics & Transportation	89,806	88,651	89,258	89,092
Advanced Manufacturing	96,943	97,361	98,096	102,508
Finance	104,714	103,809	104,803	106,923
Professional Services	106,061	105,998	109,640	112,699
Healthcare	126,624	131,620	134,204	137,552
Hotel and Restaurants	135,363	131,667	137,581	134,588
Management and Administration	125,376	134,579	132,413	141,433
Manufacturing	151,163	151,116	152,753	158,112
Tourism and Leisure	172,325	173,268	173,941	181,315



# Re-thinking Manufacturing Occupations

*Over half of the openings in manufacturing required more than a high school diploma, and companies demanded educational attainment beyond high school for one out of every four production-related jobs.*

*Non-production jobs accounted for more than 91 percent of all manufacturing job openings during the first half of 2011.*

*One in four manufacturing job openings was in just three industries:*

- *Computer and peripheral equipment manufacturing*
- *Aerospace product and parts manufacturing*
- *Pharmaceutical and medicine manufacturing*



# Top Advanced Manufacturing Occupations

SOC Code	
17-3029.09	Manufacturing Production Technicians
17-2199.04	Manufacturing Engineers
17-3029.06	Manufacturing Engineering Technologists
17-3023.01	Electronics Engineering Technicians
17-3023.03	Electrical Engineering Technicians
17-3024.01	Robotics Technicians
17-3027.00	Mechanical Engineering Technicians
49-2091.00	Avionics Technicians



# 2011 Manufacturing Openings

All Manufacturing Openings		
MSA	Openings	% of Total Openings
New York-Northern New Jersey-Long Island, NY-NJ-PA	37,112	5.5%
Chicago-Naperville-Joliet, IL-IN-WI	27,614	4.1%
Los Angeles-Long Beach-Santa Ana, CA	25,187	3.8%
Houston-Sugar Land-Baytown, TX	21,353	3.2%
Dallas-Fort Worth-Arlington, TX	20,210	3.0%
Washington-Arlington-Alexandria, DC-VA-MD-WV	18,347	2.7%
San Jose-Sunnyvale-Santa Clara, CA	18,094	2.7%
Atlanta-Sandy Springs-Marietta, GA	16,825	2.5%
Minneapolis-St. Paul-Bloomington, MN-WI	15,263	2.3%
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	15,134	2.3%

Source: Center for Regional Economic Competitiveness



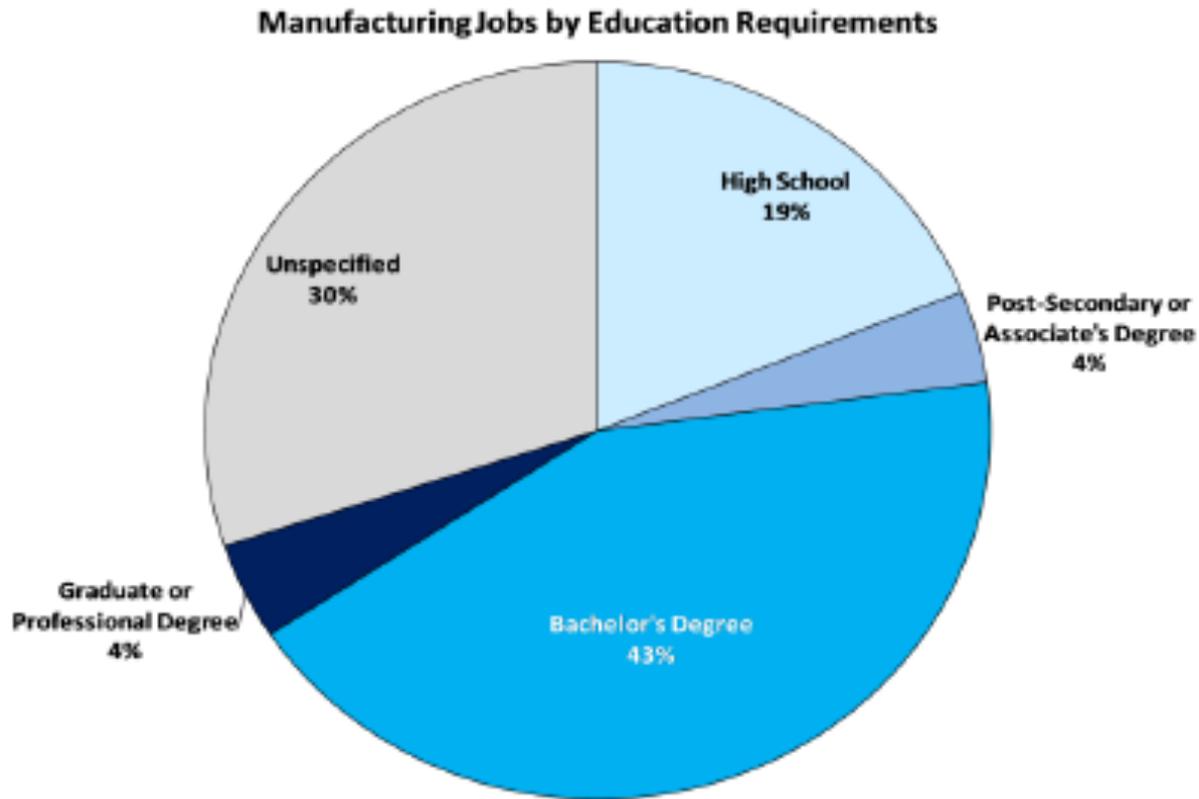
# 2011 Production Openings

Production Openings		
MSA	Openings	% of Total Openings
Los Angeles-Long Beach-Santa Ana, CA	2,294	4.2%
Chicago-Naperville-Joliet, IL-IN-WI	2,112	3.9%
New York-Northern New Jersey-Long Island, NY-NJ-PA	2,039	3.7%
Minneapolis-St. Paul-Bloomington, MN-WI	1,597	2.9%
Houston-Sugar Land-Baytown, TX	1,479	2.7%
Cleveland-Elyria-Mentor, OH	1,362	2.5%
Atlanta-Sandy Springs-Marietta, GA	1,209	2.2%
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	1,091	2.0%
Dallas-Fort Worth-Arlington, TX	1,083	2.0%
Phoenix-Mesa-Glendale, AZ	1,040	1.9%

Source: Center for Regional Economic Competitiveness

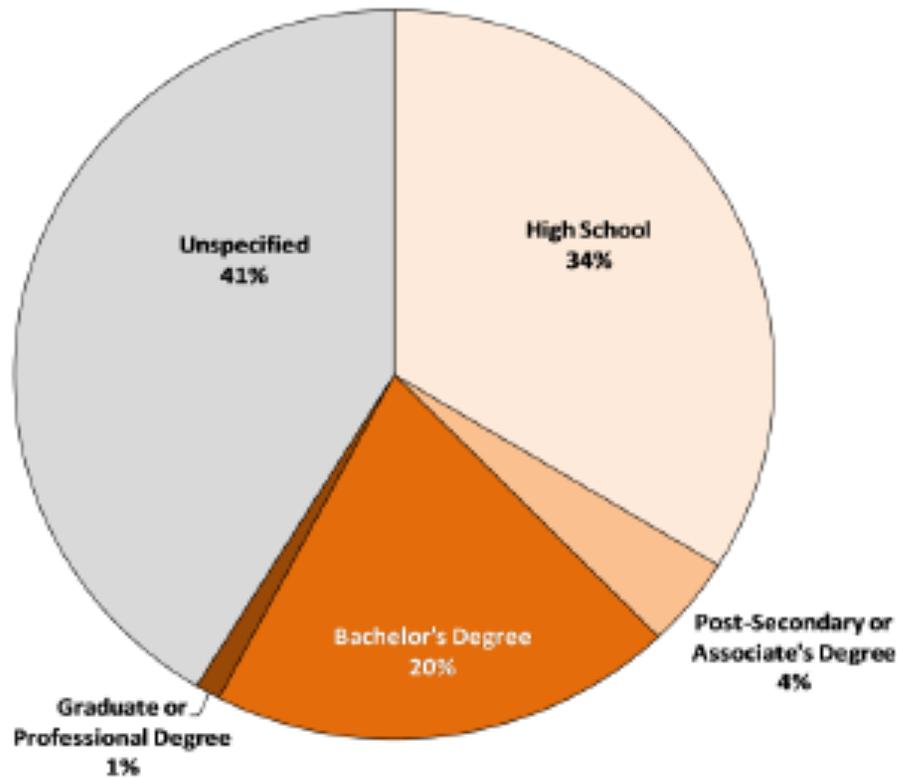


# Manufacturing Jobs and Education Requirements



# Production Jobs and Education Requirements

Production Jobs by Education Requirements



# Workforce Challenges in Advanced Manufacturing

Challenge 1: Increasing firm/facility competitiveness and employee employment security through incumbent workers' skills upgrading

Challenge 2: Responding to small and medium size firms' and/or facilities' (those with less than 500 employees) recruitment and training needs

Challenge 3: Meeting employer demand while minimizing the deleterious effects of layoffs

Challenge 4: Assuring a pipeline of specialty-skilled workers

Challenge 5: Integrating workers with limited English proficiency

Challenge 6: Maintaining the pipeline that channels young workers into manufacturing



# Advanced Manufacturing in Orange County

Cities	Total Employment
Irvine	48,456
Anaheim	29,032
Santa Ana	23,599
Huntington Beach	17,465
Orange	9,324
Garden Grove	9,234
Lake Forest	9,103
Buena Park	8,249
Fullerton	7,852
Costa Mesa	7,457

Cities	Employment Concentration
Buena Park	33.2%
Seal Beach	30.2%
Lake Forest	27.3%
Huntington Beach	26.6%
Irvine	24.5%
Anaheim	23.2%
Los Alamitos	23.2%
Garden Grove	22.3%
Santa Ana	21.2%
Brea	21.0%



# Looking Forward...

Leveraging the Network and Sector Partnerships to support Advanced Manufacturing workforce development.

Identifying strategic education and apprenticeship models to support workforce development in Advance Manufacturing.



# Thank you!



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