



David Gonzales

Director
Center for Applied Competitive Technologies

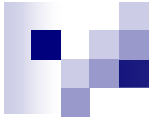
El Camino Community College
Torrance, CA



El Camino Community College

Mission of the California Community College System

To advance California's economic growth and global competitiveness through education, training, and services that contribute to continuous workforce improvement.



Industries' Demand for Qualified Workers & The Perception that Manufacturing Jobs are going Overseas

California Community Colleges – Our role in the solution

“Worker skills and education will be a dominant, if not decisive factor in America’s ability to compete in the global economy”

*Manufacturing in America
U.S. Department of Commerce*



What's the Disconnect?

- Industries' need for Qualified Workers
 - Aging workforce
 - Difficulty finding qualified people
 - Perception of entry level workers
 - Entry level training and on-going training
 - Economics pressures are forcing job relocations

- Manufacturing jobs are being relocated overseas
 - Manufacturing jobs are dull and dirty
 - Manufacturing in the U.S. is dying
 - There is no future in manufacturing
 - China is the new manufacturing superpower

“Manufacturing is the backbone of our economy and the muscle behind our national security”

*Donald L Evans
Secretary of Commerce*



■ What's the Reality?

- The U.S is still the world's leading producer of manufactured goods
- Standing alone, the U.S. manufacturing sector would represent the fifth-largest economy in the world – larger than China's economy as a whole
- Low skilled jobs and low margin product lines are being relocated to other countries
- High skilled, good paying jobs in the U.S. are in demand
- U.S. manufacturers have transitioned to new technologies
- California Community Colleges are working to keep pace with the changes in technology

Centers for Applied Competitive Technologies

- Our mission is to help California's manufacturing industry compete successfully in changing markets and the global economy through Applied Competitive Technologies and workforce education
- We accomplish this through technology education, manufacturing training, and services that contribute to continuous workforce development, technology deployment and business development

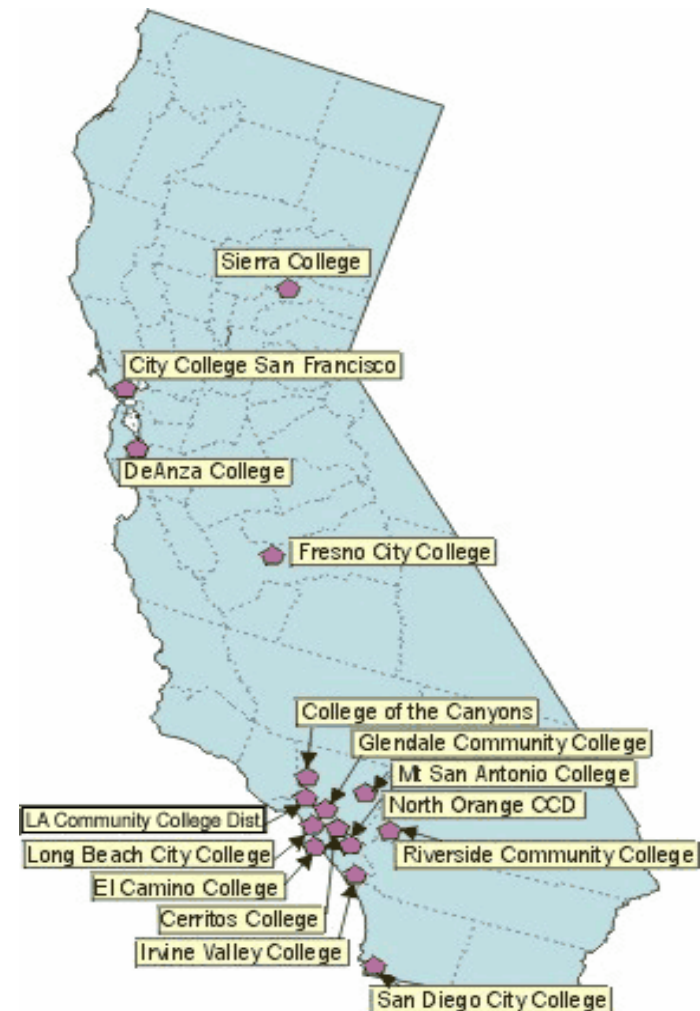
CACTs have 15 centers strategically located throughout California.

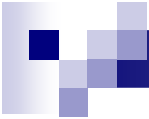
Companies and manufacturing professionals can call on the CACT Centers for customized technical training in over 100 areas of expertise

- Access to new manufacturing technologies
- Education and advanced technical seminars
- Customized employment training
- Resolution of specific manufacturing problems
- Expertise on facilitating technology transfer opportunities

Focused on increasing productivity, CACTs assist clients in

- Continuous quality improvements
- Process modernization
- E-Commerce
- Environmentally sound manufacturing
- Workforce assessment and training
- Lean manufacturing techniques
- Six Sigma Quality





El Camino College - Quick Start Project

Educating Engineers of the Future through Project Lead The Way

875 students are attending El Camino PLTW Pre-Engineering courses this semester

- 32 courses at ECC and partner high schools

- We are partnered with local schools
 - California Academy of Mathematics & Science (CAMS), located on Cal State Dominguez Hills campus, Long Beach Unified
 - Lennox Math & Science Academy, Lennox Unified School District
 - Redondo Beach High School, Redondo Beach Unified School District
 - Hawthorne High School, Hawthorne Unified School District
 - City Honors High School, Inglewood Unified School District
 - Palos Verdes High School
 - Southern California Regional Occupational Center (SCROC), Torrance, CA
 - Pierce College in Los Angeles

- High school students are learning valuable skills and earning college credit

- The Community College system is working to prepare people for careers in technology and manufacturing