

Community-Based Job Training Grants

San Bernardino Community College District

Grantee: San Bernardino Community College District

Industry Focus: Nanotechnology

Key Partners: University of California at Riverside; NASA Ames Research, Center for Nanotechnology; California Community Colleges Chancellor's Office; Centers for Applied Competitive Technologies; San Bernardino Valley College; County of San Bernardino Superintendent of Schools; International Brotherhood of Electrical Workers and National Electrical Contractors Association, Inc; Community Action Partnership of the County of San Bernardino; Advatech Pacific; Pacific Nanotechnology, Inc; NPD Corp; San Bernardino Workforce Investment Board; Operation Grace; and Praise Christian Fellowship.

Grant Amount: \$2,000,000

Leveraged Amount: \$1,057,962

Location of Grant Activities: California

Challenge: In the San Bernardino Community College District, there is expected to be an addition of 17,674 jobs (a 14 percent increase) related to nanotechnology by 2012. While job growth in the region is significant, the impact on nanotechnology jobs across the globe is even greater, with a projected growth of two million jobs over the next 10 years. Nanotechnology is also used in a variety of other growing industries such as semiconductors, biotechnology, biology, etc. The following education and training challenges have been identified by the California Nanotechnology Collaborative: no short-term training programs to prepare workers for entry-level jobs; no programs to provide opportunities for students to pursue certificate, two-year, four-year, and/or graduate degrees in nanotechnology-related fields; no organization or entity that can provide technical resources in nanotechnology to state community colleges; and no career pathways that link K-12 education to institutions of higher learning.

Addressing the Challenge: The California Nanotechnology Collaborative (CNC) will prepare workers for entry-level jobs as technicians in nanotechnology-based industries. The program will provide participants the opportunity to pursue certificate, four-year, and graduate degrees in nanotechnology-related fields. CNC will establish a "NanoCenter" that will serve as a Technical Resource Center for California community colleges and manufacturing industries. The program will also promote nanotechnology career pathways and science, technology, engineering, and mathematics (STEM) to middle and high school students.

Projected Outcomes:

- 450 participants will be served.
- 400 participants will complete training and receive a degree or certificate.
- 360 participants that complete training will enter employment, 80 percent of whom will retain employment.
- An average yearly wage of \$38,000 for participants entering employment will be achieved.

