

Community-Based Job Training Grants

Central Virginia Community College

Grantee: Central Virginia Community College (CVCC)

Industry Focus: Nuclear Technologies

Key Partners: AREVA, BWX Technologies; Region 2000 Tech Prep Consortium; Lynchburg City, Bedford City/County, and Amherst, Appomattox, and Campbell counties' school systems; The College of Engineering at Old Dominion University; and Region 2000 Partnership

Grant Amount: \$1,249,527

Leveraged Amount: \$19,369,338

Location of Grant Activities: Lynchburg and Bedford, VA, and four largely rural counties.

Challenge: A 2004 study released by the Health Physics Society revealed a shortage of qualified radiation protection professionals across a range of plant operations. With demand due to outstrip supply, the need for these professionals will more than double in 10 years.

Addressing the Challenge: CVCC will develop a project with eight carefully designed strategies, including: 1) expanding the existing partnership between CVCC and AREVA; 2) conducting outreach using an educational pipeline and a career ladder extending from middle school through industrial employment; 3) profiling using WorkKeys assessments and the COMPASS placement test; 4) professional development for industry and college staff to qualify additional faculty for the non-destructive examination program and faculty to develop and implement the radiation protection curriculum; 5) curriculum development for four new courses for the radiation protection curriculum; 6) implementation of two new laboratories at the community college and two public school systems radiation protection laboratories; 7) enrollment of participants in the Associate's of Applied Science (A.S.S.) degree in nuclear support technologies program; and 8) Dissemination of the *Nuclear Technologies Enhancement Project* outcomes in a solution-based model.

Projected Outcomes:

- At least 390 technicians for the Nuclear Support Industry will be trained
- Two new Nuclear Support Technologies laboratory/training sites will be equipped at the College; the College will enroll an additional 25 students in upgraded programs for a total of 87 students each year
- Two Radiation Protection laboratories at two regional high schools will be equipped to support dual-enrollment, college-credit classes for the College as well as high school programs
- Integration of the curricula/model will be complete for the Radiation Protection Technology and Non-Destructive Testing A.A.S. degree, the certificate programs and the curricula will be approved by the partnership and by the Virginia Community College System and will be available for dissemination
- At least two laboratory/training sites will be ready for the Radiation Protection Technology and Non-Destructive Testing programs for the College and its partners

