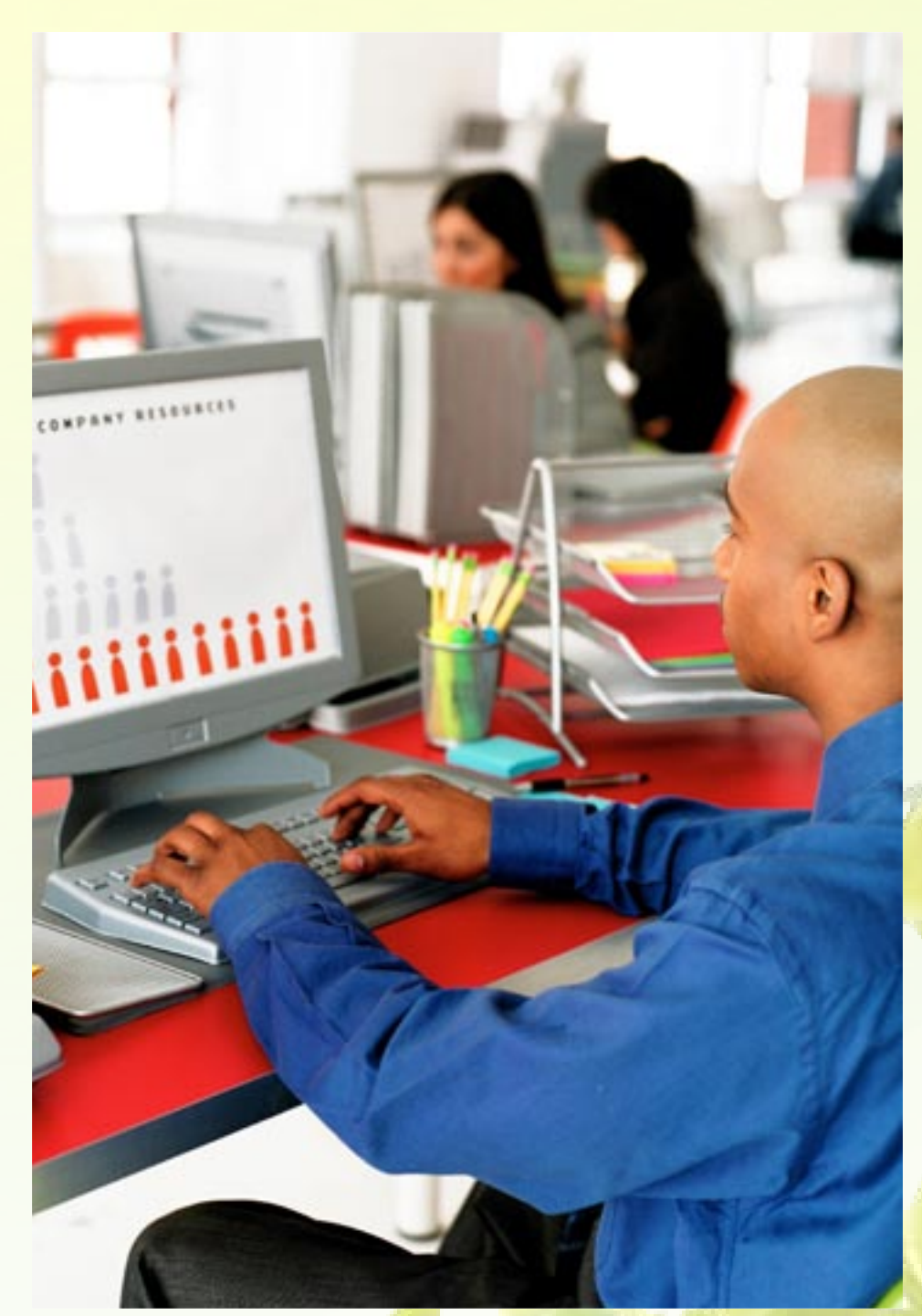


Grow Your Own Workforce

How We Cultivate a **STEM Workforce** in Central Virginia



GRADUATE PROGRAMS: REAP

Continually improve the workforce through local graduate engineering degree programs available and professional development, research, and tech transfer opportunities.

4-YEAR UNIVERSITY: CULTIVATE

Increase opportunities for students to obtain bachelor's degrees through articulation with universities and innovative programs such as the CVCC/UVA "Produced in Virginia" engineering program.



COMMUNITY COLLEGE: GROW

Bridge the gap between school and work by developing customized degree programs for S&T areas such as electronics and nuclear support technologies. Develop industry certifications and provide work-based learning opportunities through internships and work-study programs.



HIGH SCHOOL: FEED

Prepare students to enter the STEM workforce through industry involvement in STEM classes, increased dual enrollment opportunities for science and engineering programs at the community college, and work-based learning opportunities with local industry.



MIDDLE SCHOOL: PLANT

Engage students in STEM activities designed to increase interest in these disciplines. Activities include Lego League Robotics, summer technology career academies, industry engagement in science and math classes and professional development for science and math teachers.



PLANTING THE SEED

In technology-based economic development, knowledge is the seed that fuels all growth. In Virginia's Region 2000, public and private organizations have joined hands to ensure a bumper crop of homegrown talent—by offering innovative opportunities to our students at all stages of their growth.

ABOUT THE PLANTERS

Virginia's **Region 2000 Partnership** is made up of a network of organizations that provide regional planning services, economic development, and workforce training within a 2,000 square mile area in Central Virginia. The organizations bring local governments and industries to the table to engage them in workforce issues and deliver solutions.

The Center for Advanced Engineering and Research (CAER) is charged to create a science and engineering research hub in the region to foster knowledge creation, facilitate technology transfer and improve the region's scientific and engineering workforce.

Central Virginia Community College (CVCC), with the support of the National Science Foundation (NSF) and Region 2000 Technology Council, seeks to provide students in the region's middle schools and high schools with the relevant STEM skills needed to have successful careers in science and engineering, and provide teachers with the resources to successfully teach these STEM skills.

REAPING THE REWARDS

- 1,200 middle school students and teachers engaged in extracurricular STEM activities over a three year period.
- 500 high school students dual enroll in courses in CVCC's Nuclear Support Technologies degree programs annually.
- 107 employees enrolled in customized industry degree programs at CVCC.
- 500% increase in the number of undergraduate engineering students in the region over a three year period.
- \$7.6M grant obtained to construct a research and education facility that supports partner universities and organizations.

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