

Center Overview



The Center for Aviation and Automotive Technological Education Using Virtual E-Schools, or "CA²VES," provides research-centered resources and evidence-based leadership for community colleges and the broader ATE community by designing and developing state-of-the-art virtual reality-based modules.

4 Overarching Goals guide the objectives, activities outcomes and responsibilities of the center:



Goal 1: Facilitate and Accelerate Distribution and Implementation of the Digital Learning Tools Developed by CA2VES and its Partners



Goal 2: Design and Develop Digital Curricula, E-Schools, and Virtual Reality Teaching for Online and Hybrid Environments, housed on EducateWorkforce.com



Goal 3: Increase the Diversity and Quality of the Advanced Manufacturing Talent Pipeline Through Sustainable Pathways



Goal 4: Provide Rigorous Research in VR Development and Become a Sustainable Resource for ATE Centers/2-year Colleges



By the Numbers

2020

Design and Develop Digital Curricula, E-Schools, and Virtual Reality
Teaching and Learning

Virtual reality modules | 127

3D/CAD models | 300+

Courses | 36

e-Learning modules | 167

e-Learning sections | **735+**

eBooks 9

Lesson Plans 11

Facilitate and Accelerate
Distribution / Implementation of
Digital Learning Tools

14,859 | EducateWorkforce Curriculum Users

46 | States using EducateWorkforce

+1065 | Online Class Sections

Increase the Diversity and Quality of the Talent Pipeline through Sustainable Pathways

Total Collaborators | 201

ATE Partners 13 • 4-yr inst. 9 • 2-yr inst. 27 • K-12 57 Educational 6 • Industry 34 • Government 22 Regional Board 8 • Clemson University 25

Presentations & booths | 102

SC conferences **33**National conferences **37**Conference booths **32**

Provide Rigorous Evidence-based Research and Become a Sustainable Resource for Technological Education

24 Research Studies

31 | Publications

66 Grant, contract, and foundation proposals submitted

27 | Proposals funded

\$4,310,443+ | Total funding awarded to CUCWD/CA2VES since NVC 2017

\$2,300,000 | Total Funding from Industry Contracts



