

Advanced Technological Education Program

The National Science Foundation's Advanced Technological Education (ATE) program provides grants that support the development of innovative approaches for educating highly skilled technicians for the industries that drive the nation's economy. In tandem with creating products to improve students' learning, many ATE grantees offer professional development for faculty. The ATE program funds large, comprehensive Centers of Excellence, as well as smaller-scale, more focused projects. Each ATE Center generally involves a collaboration among several educational institutions, along with partners from business, industry, and government, all of which work together to improve education and build the workforce in a particular area of technology.



ATE CENTERS FOR CYBERSECURITY EDUCATION



Advanced Cyberforensics Education Consortium Daytona State College (Daytona Beach, FL)

cyberace.org

This consortium develops and disseminates cyberforensics curricula, provides professional development for faculty members, and creates interest in cybersecurity among high school students.



Center for Systems Security and Information Assurance Moraine Valley Community College (Palos Hills, IL)

cssia.org

This resource center provides faculty development and a cutting-edge virtual teaching and learning environment that has been adopted by several hundred educational institutions and is also used extensively for cybersecurity student competitions.



Cyber Security Education Consortium University of Tulsa (Tulsa, OK)

cseconline.net/2014

This regional center involves over 40 two-year academic institutions in eight states. Faculty members offer courses based on CSEC's core information assurance and forensics curriculum. Particular emphases are automation and control systems security and mobile-device security.



CyberWatch West Whatcom Community College (Bellingham, WA)

cyberwatchwest.org

This regional center focuses on cybersecurity education and workforce development in 14 Western states. Activities include providing model curricula, offering workshops for faculty, facilitating student participation in intercollegiate cyber defense competitions, and mentoring community colleges that aim to achieve designation as a National Center of Academic Excellence in Cyber Defense-2-Year Education (CAE-2Y).



National CyberWatch Center Prince George's Community College (Largo, MD)

nationalcyberwatch.org

This national center cultivates collaborations for initiatives that include developing and updating cybersecurity degree and certificate programs; mapping curricula to federal and industry knowledge-and-skill standards, job roles, and professional certifications; and creating model transfer pathways that allow students to move between two-year and four-year degree programs.