

## Charter

### **Business and Industry STEM Education Coalition** *America 2020: Will You Be Ready?*

**Established March 12, 2010**

#### **Purpose**

Our business and industry associations have joined together to form the Business and Industry STEM Education Coalition. We will enhance and elevate the U.S. commitment to science, technology, engineering and mathematics, and facilitate STEM Education through private and public partnerships.

As a coalition of industries, our purpose is to align our efforts to improve STEM education to develop our future workforce in order to build our nation's economic competitiveness, sustain national security, and develop future jobs and employment specialties that engage a dynamic STEM workforce.

#### **Members**

We are industry and business associations that represent the employers of STEM professionals who have a vested interest in the nationwide advancement and alignment of STEM Education and creation of a vibrant STEM workforce.

#### **Advisory Members**

Government entities that employ STEM professionals.

#### **Principles**

We encourage a systemic change to STEM education/literacy whereby all children, youth and adults are encouraged to be scientifically literate and to have opportunities to pursue careers within the STEM fields.

We encourage volunteerism and community involvement as key elements to foster an increase in individuals pursuing STEM career paths.

Recognizing the necessity for strategic partnerships and utilizing unique organizational strengths, collaborative partners shall include: professional societies, philanthropic and education organizations and STEM thought leaders.

We support aligning our efforts around these priorities:

- Students: Bring proven project-based, hands-on STEM experiential student learning activities to a national scale and ensure that they are sustained and aligned with national goals for STEM education.
- Teachers: Recruit, train and retain effective teachers
- Employers: Identify early and nurture students with aptitudes for STEM and then attract students to and retain them in STEM career tracks, particularly students from groups that are underrepresented in the STEM workforce.

- Progress: Adopt metrics and assessments to evaluate the impact of STEM programs and methods to track progress across the pipeline.

### **Our Approach**

We are an action-oriented group that uses:

- A multimedia approach
- Common language
- Evidence-based decision-making
- Promotion of best practices

### **Our Goals**

- To increase the number of STEM graduates from high school through graduate school, such as increasing STEM bachelors' degrees to 400,000 annually by 2020.
- To leverage and align our activities and resources to achieve meaningful employer engagement in STEM in all 50 states.
- To improve the quality and impact of our business-led or supported STEM programs towards an increase in our nation's student achievement.
- To articulate and publicize our industries' scientific and technical achievements and contributions to society to attract our future workforce.

### **Practices**

Members of this coalition are volunteers. The coalition shall be administered by a core planning group who are self-selected and able to commit for one year. The core planning group shall hold meetings as necessary, with the requirement that the core group plan at least one annual meeting that is open to all coalition members and partners. At this annual meeting progress on the coalition's goals shall be assessed and publicized.

### **Requirements of Participation and How to Join**

Coalition membership is open to business and industry organizations that represent employers within STEM-related fields. Coalition partners and advisory members are professional associations, government entities and STEM stakeholders. Those interested in joining the coalition may do so by contacting a member of the core planning group.

**Current Membership**

Advanced Medical Technology Association  
Aerospace Industries Association  
Aerospace States Association  
Air Force Association  
American Association for the Advancement of Science  
American Association of Pharmaceutical Scientists  
American Chemical Society  
American Chemistry Council  
American Institute for Aeronautics & Astronautics  
Associated General Contractors of America  
Association for Enterprise Information  
Biotechnology Institute  
Business Roundtable  
Business-Higher Education Forum  
California Space Education Network  
Caucus for Producers, Writers and Directors  
Center for Energy Workforce Development  
Center for the Study of the Presidency & Congress  
Council on Competitiveness  
Entertainment Industries Council  
Information Technology Industry Council  
Institute for a Competitive Workforce  
Manufacturing Institute  
National Academies of Engineering

National Association of Broadcasters  
National Association of Manufacturers  
National Cable & Telecommunications Association  
National Defense Industrial Association  
National Governors Association  
National Training & Simulation Association  
Northern Virginia Technology Council  
Precision Strike Association  
SAE International  
Society for Manufacturing Engineers  
Software Engineering Institute  
Software Entertainment Association  
Teaching Institute for Excellence in STEM  
TechAmerica  
Triangle Coalition  
U.S. Chamber of Commerce  
Women in Aerospace  
Women in Defense

**Advisory Members:**

Corporation for National Community Service  
National Aeronautics & Space Administration  
National Science Foundation  
U.S. Department of Defense, DDR&E  
U.S. Department of Defense, NSSO  
U.S. Department of Education  
U.S. Department of Homeland Security  
U.S. Department of Labor