The persistent poor performance of American students in science, technology, engineering, and math (STEM) disciplines has serious implications for the long-term competitiveness of the U.S. economy. In 2015, attendees in the STEM Education Working Group will focus on cross-sector approaches to increase student engagement and broaden participation in STEM by strengthening STEM learning networks in urban and rural communities, supporting teacher preparation, expanding access to computer science education, and leveraging educational technology.

Subtopics include:

**Cultivating STEM Learning Ecosystems**
Integrating formal and informal STEM education programs into a community can greatly maximize that community’s impact. Attendees will develop strategies to strengthen collaboration between schools, community-based organizations, and families in urban, rural, and tribal settings.

**Broadening Participation in Computer Science**
Computational literacy is a critical skill for the future workforce. Attendees will explore ways to expand computer science learning opportunities, support teacher preparation, and increase student engagement, namely among underserved and underrepresented groups.

**Expanding the Maker Movement**
Hands-on learning through the act of making something stimulates confidence, creativity, and the problem-solving abilities of students and sparks their interest in STEM. Attendees will generate solutions to advance the maker movement in both formal and informal education.

**Leveraging Educational Technology**
Digital tools and curricula present great opportunities and challenges for teachers and students. Attendees will define how best to better integrate and leverage ed-tech in and out of the classroom.

The STEM Education Working Group promotes high-quality and inclusive STEM learning opportunities for all students in America.
NCWIT AspireIT – Early Computing Experiences for Girls

In 2014, National Center for Women & Information Technology (NCWIT) committed to scale up its AspireIT computing outreach program to serve 10,000 additional middle school girls by 2018. NCWIT and its partners will lead a national effort to recruit and support over 600 qualified high school and college women and 250 partner organizations that will co-create and deliver more than 400 computing outreach initiatives—including after-school programs, summer camps, and weekend conferences.

**Commitment by:** National Center for Women & Information Technology (NCWIT)

**Commitment Partners:** Intel Corporation; Google; Microsoft Corporation; Tata Consultancy Services Ltd.; University of California, Irvine; Northrop Grumman Foundation; Orbotix

Mobilizing STEM Professionals to Mentor Students

In 2013, US2020 and its partners committed to launch the US2020 City Competition, through which cities and counties will develop and submit plans to significantly increase the number of local STEM professionals mentoring students. US2020 selected and provided seven winning cities with additional resources to operationalize their plans and worked nationally to match STEM professionals with mentoring opportunities via an online matching platform.

**Commitment by:** US2020

**Commitment Partners:** Cisco; Cognizant Technology Solutions; Hewlett-Packard Company; NCTAF; Tata Consultancy Services Ltd.

Teachers at Dassault Systèmes

In 2012, Dassault Systèmes committed to launch the Teachers at Dassault Systèmes (TADS) program to strengthen STEM teaching in Los Angeles, Detroit, Providence, and Waltham. TADS provides selected high school STEM teachers an opportunity to work at Dassault Systèmes each summer and gain insight on the day-to-day experiences of STEM field practitioners, allowing them to better inform and encourage their students about STEM careers.

**Commitment by:** Dassault Systèmes