What We Do

Change the Equation (CTEq) is a nonprofit, nonpartisan, CEO-led initiative that is mobilizing the business community to improve the quality of science, technology, engineering and mathematics (STEM) learning in the United States.

Since its launch in September 2010, CTEq’s coalition of members strives to sustain a national movement to improve PreK-12 STEM learning by leveraging and expanding its work focusing on three goals:

• **Improving Philanthropy**—Increase the impact of corporate philanthropy by emphasizing high quality, scalable programs.

• **Inspiring Youth**—Capture the imagination of young people, giving them a solid foundation in STEM and insight into the unlimited postsecondary and career options.

• **Advocating for Change**—Promote proven state policies and research-based practices that enhance student mastery of and interest in STEM disciplines.
Who We Are

3M
A123 Systems
Accenture*
Advanced Micro Devices
The Aerospace Corporation
Agilent Technologies
Alcoa
Amgen
Archer Daniels Midland
AT&T
Autodesk
BAE Systems
Battelle
Bayer
Bechtel
Boeing
Booz Allen Hamilton
Boston Scientific
CA Technologies
Cardinal Health
Carolina Biological Supply
Causecast
Chevron
Cisco
Cognizant
Comcast
Comig
Dell
Deloitte
Discovery Communications
Dow Chemical
Dreamworks
DuPont *
Eaton
Eastman Kodak
Eli Lilly and Company
E-line Media
EMC2
Epic Games
ExxonMobil *
Facebook
Fluor
GE
GlaxoSmithKline
Google
Hitachi, Ltd
HP
Honeywell
IBM
Intel *
JP Morgan Chase
LMI Aerospace
Lockheed Martin
McKinstry
Merck
Microsoft
MITRE
Motorola Solutions
Nature Publishing Group
The Nielsen Company
Northrop Grumman
OptumRx
Oracle
PASCO Scientific
Procter & Gamble
Promethean
Qualcomm
RAND
Raytheon
Rockwell Collins
Rolls Royce
Sally Ride Science
Samba Energy
Samson Energy
Schlumberger Limited
Sempra Energy
Siemens
SMART Tech
Sony Pictures
Space Systems / Loral
State Farm Insurance
Stellar Solutions
Symantec
Synopsys
Teradata
Texas Instruments
Thermo Fisher Scientific
Time Warner Cable *
United Launch Alliance
Verizon
Vernier Software & Technology
Viacom
Virgin Galactic
Wireless Generation
Xerox *

* Board Member

2012 STEMworks
- **STEM is Everywhere:** Players will explore the variety of STEM careers that impact their everyday lives through a hidden object game. When objects are selected, the collection of STEM professions involved in its design and production will be explained.

- **STEM Career Matchmaker:** A variety of interactive tools will be used to identify which STEM professions best match a player’s interest, abilities and personality.

- **STEM Career Profiles:** Players can print out a handy career map that outlines the educational, extracurricular and professional pathways that lead to STEM careers.

- **STEM Career Quest:** Players get to make a lifetime of career, school and life choices as they explore versions of real-life professional career paths based on interviews with hundreds of STEM professionals.
• Live, 40-minute webcast at NASA’s Jet Propulsion Laboratory

• Featuring TV and recording artist Keke Palmer and NASA’s “Mohawk Guy” Bobak Ferdowsi, flight director on the Mars Curiosity Rover mission
  - Professionals from member companies GlaxoSmithKline, Rolls Royce, and Viacom
  - Students from John Muir High School in Pasadena, Calif.

• Learning Guide with lesson plan suggestions

• Extensive outreach to teachers and out-of-school youth leaders

2012 Vital Signs

• 51 state specific summaries of key data indicators about STEM learning, K-12

• Web-based data that goes beyond the summaries, to include a total of nearly 50 indicators per state
  - Comparisons between states on indicators can be generated

• The Next Frontier for STEM Data that describes critical data not yet available from states

• Vital Signs briefs
  - All Over the Map
  - STEM Help Wanted
  - Lost Opportunity
Vital Signs Summary—Maryland

8th Grade Passing Bar in Science
STEM Help Wanted

Jobseekers outnumbered online job postings by 3.6 people to 1 job

STEM jobs outnumbered unemployed people 1.9 jobs to 1 person

Lost Opportunity

19% of households have children enrolled in out-of-school STEM programs
Thought Leadership
• Leading the STEM conversation using data, research and social media
  - STEMtistic^SM spotlight STEM facts and figures
  - CTEq Now e-newsletter reaches more than 9,000 each month
  - STEM Salons bring together influential leaders each month
  - Twitter has more than 6,500 followers
  - Facebook has more than 11,500 likes
  - YouTube channel has nearly 48,000 views

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