STEM Summit V:
Implementing the Plan
Preparing Massachusetts students for careers in
science, technology, engineering and mathematics

SETDA STEM Report

With the following observations, the State Educational Technology Directors' Association makes the recommendation below.

• Workforce projections for 2014 by the U.S. Department of Labor show that 15 of the 20 fastest growing occupations require significant science or mathematics training to successfully compete for a job.

• According to the U.S. Bureau of Labor Statistics, professional information technology (IT) jobs will increase 24% between 2006 and 2016.

• Enrollment in undergraduate degree programs in computer sciences is more than 50 percent lower than it was five years ago.

• In 2001, only 8% of all degrees awarded in the U.S. were in engineering, mathematics or the physical sciences.

• The U.S. ranks 20th internationally based on our share of graduate degrees awarded in engineering, computer science, and mathematics.

• By 2010, if current trends continue, more than 90 percent of all scientists and engineers will be living in Asia.

• And current Societal and cultural beliefs that mathematics, science, engineering, and technology are not for everyone.

Key Recommendations
1. Obtain Societal Support for STEM Education
2. Expose Students to STEM Careers
3. Provide On-Going and Sustainable STEM Professional Development
4. Encourage STEM Pre-Service Teacher Training
5. Recruit and Retain STEM Teachers

For the full report go to http://www.setda.org/ and News and Announcements