

CONTRIBUTING YOUR SUPPORT

More can be done.

Help us multiply success across our nation. We are off to a great start, but we need more allies for this crucial national mission. You can get involved by:

- + **Providing a donation.** Help from corporations, foundations and individuals is needed to move math and science education forward.
- + **Applying for a grant.** Encourage your state leaders or university leaders to apply for NMSI grants in the future.
- + **Supporting NMSI programs in your area.** Local donations, mentors and in-kind support will leverage the impact of NMSI grants close to home.
- + **Contacting government officials.** Call on your governors, state education commissioners and Members of Congress to support science, technology, engineering and math (STEM) as education priorities.

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National Math and Science Initiative

"Technology can and will change the world. For this younger generation to be the force for good they want to be, they need to understand that the new literacy of the 21st century includes math and science."

— Tom Luce
CEO, National Math and Science Initiative; Former Assistant Secretary, U.S. Department of Education



WE MULTIPLY SUCCESS



Time Is Running Out

"America faces many challenges... but the enemy I fear most is complacency. We are about to be hit by the full force of global competition. If we continue to ignore the obvious task at hand while others beat us at our own game, our children and grandchildren will pay the price. We must now establish a sense of urgency."

— Charles Vest, President of the National Academy of Engineering; President Emeritus at Massachusetts Institute of Technology

NMSI is expanding rapidly.



2009-2010 Locations

- UTeach Program University
- APTIP Statewide Program
- Other NMSI APTIP Implementations



PROVIDING SOLUTIONS

NMSI was launched in 2007 by top leaders in U.S. business, education and science as a non-profit organization to improve math and science achievement in American public schools.

NMSI is replicating two established programs commended by the National Academies' report *Rising Above the Gathering Storm*:

Advanced Placement* Training and Incentive Program greatly increases the number of students succeeding in more rigorous AP coursework and graduating from college.

UTeach encourages math and science majors to enter the teaching profession by offering compact degree plans, early teaching experiences, and financial assistance for undergraduates.

APTIP

Today NMSI has expanded the highly successful **AP Training and Incentive Program (APTIP)** from the first cohort of 65 schools to a total of 229 U.S. public schools in six states (Alabama, Arkansas, Connecticut, Kentucky, Massachusetts and Virginia). Looking ahead, we plan to reach 350 high schools by fall of 2012.

In order to reach rural schools that do not have the enrollment to support full AP

programs, NMSI also is providing AP instruction online in South Dakota through the **Learning Power** program, which has rapidly grown to reach half the school districts in the state. NMSI also is supporting an AP incentive program in New Orleans through **Advanced NOLA** with Tulane University and is working with **Advanced Programs Initiative (API)** to bring APTIP to New Mexico.

In fall 2010, NMSI also will launch the first phase of the new **Initiative for Military Families (IMF)**. NMSI is partnering with the Military Child Education Coalition to bring the rigorous APTIP to high schools serving children in military families, with special funding from Lockheed Martin Corporation. The inaugural sites will be in Kentucky (Fort Campbell) and Texas (Fort Hood), where there are high concentrations of children who have family members serving in the military.

GAME-CHANGING RESULTS

Results from NMSI program schools during the two years from 2008-2010 show dramatic increases in student achievement across the six states participating in the APTIP:

- + There was a **97.7 percent overall increase** in math, science and English AP exams passed in the 65 schools that have been in the program for two years – over **seven times** the national average.
- + APTIP is proving particularly effective in closing minority achievement gaps. The 65 schools that have had the program for two years had a remarkable **154.6 percent increase** in passing math, science, and English scores among **African-American and Hispanic students** which is almost **six times** the national average.

+ APTIP also is proving highly effective in closing the female achievement gaps in math and science. The 65 schools that have had the program for two years had a remarkable **116.4 percent increase** in passing math and science scores among **female students**, which is over **12 times** the national average.

UTEACH

Enrollment has tripled in the UTeach program in just three years. More than 3,800 students are now enrolled in the teacher training program in 22 universities.

Working in conjunction with the UTeach Institute, NMSI anticipates UTeach will be replicated in more than 50 universities in the next decade, providing a needed infusion of teachers with content knowledge.

RESULTS: Originated by The University of Texas at Austin in 1997, the UTeach program is now having a national impact: More than 82 percent of the graduates who become teachers are still in the classroom after five years, compared to a national average of 65 percent. By 2017, the 13 universities in the first cohort will graduate more than 1,000 math and science teachers a year. Those graduates alone have the potential to impact more than a million students during their careers.

YOUNG LEADERS

NMSI also administers the Young Leaders Program to address the "gender gap" in math and science fields. The Young Leaders program equips and inspires female students who are majoring in math and science to stay the course and pursue careers in science, technology,

engineering, and math (STEM) fields. Launched just two years ago by Exxon Mobil Corporation, *FORTUNE* magazine, and NMSI, the Young Leaders Program has already quadrupled in size. In 2010, 22 college students from around the country were matched with FORTUNE 500 executives who provided leadership mentoring for students during the five-month program.

LEADING FROM EXPERIENCE

NMSI's Chief Executive Officer is Tom Luce, former Assistant Secretary of Education and co-founder of the National Center for Educational Accountability. The Chief Program Officer is John Winn, former State Education Commissioner of Florida.

NMSI brings together private and public funding for proven programs, establishes benchmarks, monitors implementation, and provides ongoing support and expertise. Over the course of the grant, recipients are expected to seek other sources of funding, which becomes more feasible as programs demonstrate progress.

FUNDING SUPPORT

A non-profit organization, NMSI has received major funding support for its ground-breaking national initiatives from **Exxon Mobil Corporation**, the **Bill & Melinda Gates Foundation**, and the **Michael & Susan Dell Foundation**, with additional support from the **Carnegie Corporation of New York** and **Lockheed Martin Corporation**.

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