FOR PUBLIC UNIVERSITIES IN TEXAS, PRIVATE SUPPORT IS THE ENGINE OF QUALITY. Indeed, state support (general revenues) today provides just one-third of Texas A&M University's total budget. And Vision 2020 research shows the best U.S. universities are currently receiving twice as much state funding per student as Texas A&M.

COLLEGE OF SCIENCE
http://www.science.tamu.edu
3257 TAMU
College Station, Texas 77843-3257
PH: 979-845-7361
FX: 979-845-6077

Our Center for Mathematics and Science Education is dedicated to supporting the ever-changing needs of Texas public educators charged with the vital role of teaching K-16 science and mathematics. Since 2001 the CMSE has conducted more than $28 million in private, state, and federally funded research to benefit K-16 education.

AS ONE OF THE STATE’S MOST PROMINENT SCIENTIFIC EDUCATION RESOURCES, WE ARE ALSO ONE OF ITS LEADING PROPONENTS OF PUBLIC EDUCATION REFORM.

The Center for Mathematics and Science Education (CMSE) at Texas A&M University, established in 1985, is a collaborative effort between the College of Science and the College of Education and Human Development to provide and promote resources that enhance science and mathematics education in the State of Texas.

TEACHER RECRUITMENT, RETENTION, AND PREPARATION
Local, state and national trends indicate an increasingly high need for qualified math and science teachers. To address this shortage, we offer several pathways and incentives to recruit the next generation of teachers. Texas A&M proudly leads the state in university-trained math and science teacher production¹.

aggieTEACH
This undergraduate secondary math and science teacher preparation program produces highly qualified, highly effective STEM (science, technology, engineering, mathematics) teachers by targeting students interested in obtaining both a STEM degree and a secondary math or science teaching certification within the traditional four-year, 120-hour undergraduate bachelor’s degree. Students are mentored by some of the area’s best secondary STEM teachers and benefit from STEM teaching seminars, advising sessions, and scholarships, including the prestigious NSF Robert Noyce Teacher Scholarship Program (up to $10,000 per year).

Accelerate Online
http://tlac.tamu.edu/teacher-certification/accelerate-online-secondary-teacher-certification-program

Middle Grades 4-8 Math & Science
http://tlac.tamu.edu/degrees-and-programs/undergraduate-degree-programs/middle-grades-4-8-mathscience

Graduate Certification Program
http://tlac.tamu.edu/teacher-certification/graduate-certification-program

MENTORING AND INDUCTION PROGRAM
This program, funded through a Greater Texas Foundation grant, helps to ensure that aggieTEACH graduates remain in the profession by providing critical in-service mentoring and retention-related resources during one of their most critical career phases — the first five years. Each new teacher is assigned a regional coach who provides resources and support through phone calls, email, classroom visits and a private website, aggieTEACH Advice, designed to meet the needs of beginning teachers.

PROFESSIONAL DEVELOPMENT
The CMSE is committed to offering high quality, sustained professional development for math and science teachers.

ADVANCED PLACEMENT® INSTITUTES
A longstanding A&M tradition, our AP workshops are led by university math and science faculty and experienced AP consultants in chemistry, math, biology, physics, and statistics. These institutes bring teachers up-to-date in their subjects and introduce them to new ways to present the material in their classrooms.

USDA FUTURE SCIENTISTS PROGRAM
This program introduces United States Department of Agriculture research into local schools (Grades 5-8) and communities with hands-on, inquiry-based activities designed to inspire future agricultural scientists. For more, visit http://futurescientists.tamu.edu.

TEXAS REGIONAL COLLABORATIVE FOR EXCELLENCE IN SCIENCE TEACHING
Established at Texas A&M in 2005, this program provides a variety of free workshops and valuable leadership in science education for Brazos Valley area teachers, enabling 40 per year to become Science Teacher Mentors in their schools as well as at the district, regional, and state levels. Each completes...

The CMSE is committed to offering high quality, sustained professional development for math and science teachers.

ADVANCED PLACEMENT® INSTITUTES
A longstanding A&M tradition, our AP workshops are led by university math and science faculty and experienced AP consultants in chemistry, math, biology, physics, and statistics. These institutes bring teachers up-to-date in their subjects and introduce them to new ways to present the material in their classrooms.

USDA FUTURE SCIENTISTS PROGRAM
This program introduces United States Department of Agriculture research into local schools (Grades 5-8) and communities with hands-on, inquiry-based activities designed to inspire future agricultural scientists. For more, visit http://futurescientists.tamu.edu.

TEXAS REGIONAL COLLABORATIVE FOR EXCELLENCE IN SCIENCE TEACHING
Established at Texas A&M in 2005, this program provides a variety of free workshops and valuable leadership in science education for Brazos Valley area teachers, enabling 40 per year to become Science Teacher Mentors in their schools as well as at the district, regional, and state levels. Each completes...
POLICY INITIATIVES

Given the constantly changing nature of Texas policy, economics, demographics, and education, the CMSE works to play a central role in the development of effective policy and practice to benefit today’s math and science teachers and their students.

SCIENCE & MATH TEACHER IMPERATIVE (SMTI)

CMSE Co-Director Tim Scott currently is serving a two-year term on the executive committee of the Association of Public and Land-Grant Universities (APLU) Commission on the Science and Mathematics Teacher Imperative (SMTI). During the past decade, Scott has emerged as a national voice for science education policy as well as STEM education and math and science teacher preparation and professional development.

STEM EDUCATION

In May, aggieTEACH Program Director Jennifer Whitfield represented Texas A&M and the future of STEM education in Dallas as a panel member at the Texas Tribune-sponsored On the Road: A Symposium on STEM Education. Archived video is available at http://www.texastribune.org/events/2014/may/05/on-the-road-a-symposium-on-stem-education/.

POLICY RESEARCH INITIATIVES IN SCIENCE EDUCATION (PRISE)

Through this NSF-funded program, we created a continuous professional development model that improves the quality of science teaching while also reducing the shortage of qualified high school science teachers. For more details, go to http://prise.tamu.edu.