



Texas – Science, Technology, Engineering and Mathematics Initiative

OVERVIEW

The Texas Science, Technology, Engineering and Mathematics (T-STEM) Initiative offers a fundamental approach to empower teachers, inspire students, and advance the studies in these four fields. The public-private initiative of academies, professional development centers and networks is designed to improve instruction and academic performance in science and mathematics-related subjects at secondary schools.



T-STEM SPOTLIGHT

- 59 T-STEM Academies
 - 24 campuses serve high school students in grades 9-12
 - 35 campuses serve both middle and high school students in grades 6-12
- Seven T-STEM Centers supporting more than 2,700 teachers.
- T-STEM students are ten percent more likely than students in their peer schools and 14 percent more likely than students across the state to pass 9th grade Math TAKS.
- T-STEM Academy students are more likely than peers to take college level courses through AP and dual credit courses.

OBJECTIVES

- Increase the number of students entering postsecondary studies and careers in science, technology, engineering, and mathematics
- Facilitate the promotion of quality school leadership that supports school redesign efforts, quality teacher recruitment and improved teacher preparation
- Assist in the long-term educational and economic development and alignment of these fields

KEY ELEMENTS

- T-STEM Academies – Serve as demonstration schools and learning labs which develop innovative methods to improve science and math instruction
- T-STEM Centers – Located at universities and regional education service centers, these Centers create new STEM instructional materials and provide high quality professional development. These centers coordinate with industry and business partners who provide resources for the T-STEM Academies
- T-STEM Network – The network serves as a conduit between T-STEM Academies and T-STEM Centers. It offers professional development, exemplar profiles and other STEM education resources. The T-STEM initiative is connected with a national STEM network