



## Strategic Plan

### VISION

Alabama will be a pace-setting state in science, technology, engineering, and mathematics (STEM) education. *for all PK-20 students.*

### MISSION

The mission of AMSTEC is to improve STEM education in the state of Alabama through the facilitation of advocacy, communication, and collaboration among education, business, and public policy organizations.

### VALUES

➤AMSTEC is passionate about improving the STEM education of children in the State of Alabama.

➤AMSTEC views the professional education of potential teachers and the professional development of the State's teachers as paramount to the success of STEM education for our children.

➤AMSTEC believes that the success of STEM education in Alabama depends on close linkages among the education system, business, and industry, and State and Federal Government agencies.

➤AMSTEC is a quality, performance, and integrity driven organization.

➤AMSTEC is a responsible steward of the resources granted to it and is fiscally, ethically, and environmentally responsible.

## GOALS

### PROFESSIONAL DEVELOPMENT FOR TEACHERS

To facilitate, broker, and advocate the implementation of professional development for teachers/faculty (PK-20) and other staff within a unified, systemic framework.

### ADEQUATE SUPPLY OF TEACHERS

To facilitate, broker, and advocate the implementation of post-secondary curricula to provide the level of teacher competency needed by Alabama to assure increased performance and knowledge on the part of our PK-20 students in STEM.

### STATEWIDE INFRASTRUCTURE

To facilitate, broker, and advocate the development of statewide infrastructure that will assure the consistent and standard development, dissemination, and implementation of Alabama standards for courses of study in STEM.

### APPLICATION OF TECHNOLOGY

To facilitate, broker, and advocate the increased availability of technology and staff development for its effective use.

### K-20 AND WORKFORCE PREPARATION EMPHASIS

To facilitate, broker, and advocate the development of a coherent strategy to move Alabama from its current situation to a National leader by providing preparation with rigorous and relevant instruction in the manner in which individual students learn most readily.

## STRATEGIC OBJECTIVES

Support an increase in the quantity and quality of professional staff.

Support frameworks that produce high-quality, dynamic programs sustaining and enhancing the improvement of teachers and teaching, learners and learning.

<http://alex.state.al.us/leadership/Alabama%20Professional%20Development%20Standards.pdf>

Support programs to ensure provisions by Alabama's post-secondary schools of entry-level STEM teachers with the knowledge and skills to adequately educate our children.

Support in-service professional development initiatives designed to enhance the knowledge, skills and performance of current STEM teachers at all levels, PK-20

Support the review and revision of statewide STEM related standards to align with National standards.

Support the development of an infrastructure to ensure the consistent distribution and presentation of STEM Courses of Study

Support the acquisition and installation of integrated technologies in our state classrooms.

Support the professional development of current teachers to effectively use integrated technologies in the daily instruction of STEM courses.

Support the college instruction of future teachers in the effective use of integrated technologies in the daily instruction of STEM courses.

Support the focus of statewide educational efforts on the instruction of STEM K-20.

Support the development and implementation of a tightly integrated approach between STEM curricula and the type of inquiry-based instruction encouraged by National standards in science, technology, engineering and mathematics.