Student Services

Coding
Robotics
Engineering

Forensics
BioTech
Bio Engineering

Enrichment
Content
Intervention

From STEM enrichment to content intervention, STEM career outreach services are available as direct student services in a variety of formats such as STEM camps, summer bridge programs, regional competitions, and student led conferences. After school enrichment and intervention program support is also available in all content areas for all student populations.

T-STEM

STEM & LRI Team

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STUDENTS FIRST
www.esc1.net/STEM

STUDENTS FIRST
Professional Development

**PROJECT BASED LEARNING**
- Project Based Learning Overview (1 Day)
- Project Based Learning Beginner Series (3 Days)
- Project Based Learning Advanced Series (2 Days)

**COMPUTER SCIENCE ENDORSEMENT**
- Introduction to Computer Science (Elem, MS, HS)
- Coding for the Elementary Classroom
- Gamifying the Stem Classroom
- Programming with ALICE

**ENGINEERING ENDORSEMENT**
- Engineering and Robotics (Elem, MS, HS)
- Engineering Inventions and Innovations
- Robotics in the Elementary Classroom
- Engineering in the Elementary Classroom
- Engineering Design

**HEALTH SCIENCE**
- Teaching STEM with Forensics
- Teaching STEM with Bioengineering
- Teaching STEM with Biotechnology

**STEAM & MAKERSPACE**
- Coding & Music Production
- Art & Computer Graphics
- Art Design & 3D Printing
- Technology Tools for Global STEM Collaboration

**STEM LEADERSHIP NETWORK**
- Quarterly T-STEM Leadership Meetings
- Onsite Advisory Board Meeting Support
- Capstone Scale-Up Initiatives

Consistent with research-based practices and proven models of instruction, multi-day professional development institutes are customized to ensure comprehensive, strategic capacity building for educator audiences. Workshops are offered based on content, pedagogical, or technology-based needs and delivered in a variety of formats including 1) a full calendar of STEM-focused topics 2) onsite professional development, and 3) customized series based on district needs and goals.

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**STEM Outreach**

**For Educators**

**STEM Summit of South Texas**

The STEM Summit of South Texas brings together leading regional experts, including TEA T-STEM designated academies, T-STEM coaches, and members of statewide entities to focus on topics that impact K-12 STEM education. Regional STEM experts present progressive and innovative instructional sessions aligned to the T-STEM Academy Blueprint.

**For Students**

**SbyS Leadership & Technology Conference**

The SbySTech Conference offers students a platform to showcase authentic student solutions, capstone projects, and technology best practices. Sessions are presented by students for fellow students in the areas of leadership, technology, and STEM courses. Students express their voice and choice through topics in leadership, digital literacy, and innovative action, advocacy, and awareness of issues that matter to them.

**For Parents**

**STEM Parent Seminars (English & Spanish)**

Parent STEM seminars are offered to help parents stay current with changes that impact the academic goals of their children. Parent STEM outreach efforts ensure that all students are afforded the opportunities for higher education and rewarding opportunities in STEM education.

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**STEM Partnerships**

- UTRGV South Texas College
- Rio Grande Valley LEAD WeTeach_CS
- Texas Instruments
- NAAMREI
- Educate Texas