



Service...Above and Beyond

STEM jobs are growing at 1.7 times the rate of non-STEM jobs, and the U.S. is simply not producing enough candidates to fill them. Only 16% of high school seniors are interested in pursuing STEM careers.

According to the U.S.
Department of Education

CESA #4 STEM Education Services

Science, Technology, Engineering, and Mathematics Integration

Please note that Mathematics Specialist Services are now a component of STEM Education Services.

This program is designed to help districts build capacity of STEM course offerings and curriculum for students and teachers. Areas where CESA #4 supports and provides training include, but are not limited to:

- **Mathematics Education:** CESA #4 Mathematics Specialist helps districts build solid core instruction in mathematics, understand and instruct to the Mathematical Practice standards, and provides support to districts to integrate best practices for a math-rich school setting.
- **Common Core State Standards Integration (ELA, DL, and Mathematics):** Directors can help clarify the standards and provide a review of data with school/district teams to identify areas of need for district STEM integration.
- **Next Generation Science Standards:** This program explains how these standards are organized and the pedagogical principles within the standards. New components of engineering education, science and mathematics practices, crosscutting concepts, and performance expectations are emphasized.
- **Engineering/Robotics/Maker Education:** Engineering design and engineering practices were recently included in the science standards. Support is provided to schools as they work to integrate these additional concepts into their curricula.
- **Computer Science:** Help districts plan for CS coding and programming opportunities for students as early as elementary school and into high school. We can also support teachers interested in pursuing their own Computer Science License.
- **Real-World Project Development:** Connect STEM education to real-world projects and problem solving that are relevant to your community. Personalized student instruction is emphasized.
- **Technology Tools in STEM:** The goal is to support schools using technology tools in STEM education. This includes robotics, applications, coding and web-based programming, and gaming learning environments for students.
- **Access to STEM Resource Library:** Districts may check out STEM-related resources including LEGO MindStorms, Spheros, Mobile Maker kits, and additional resources as they become available.

See page two for Level 1 and customized options

For more information:

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School District of: _____

Signature: _____

Date: _____



Service...Above and Beyond

Fees:

Level 1A: \$
Specify # of 10 seat
pkgs. ___ X \$1,250

Level 1B: \$
Specify # of 20 seat
pkgs. ___ X \$2,000

Level 2: \$
Specify # of days _____

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CESA #4 STEM Education Services

Science, Technology, Engineering, and Mathematics Integration

This service is designed for:

- Grades K-12 science, technology, and mathematics educators
- Computer science educators
- CTE educators
- Technology integration specialists or coaches
- Curriculum and instruction directors
- Gifted and talented services coordinators
- Library media specialists

CESA #4 STEM Education Services are eligible under the Priority Level Two TEACH 2.0 Teacher Training Consortium Grant.

Level 1 - Basic Service

Membership in CESA #4 STEM Google+ PLC

- Access to digital resources
- Google Hangout meetings as determined by participants' needs

Pricing: Purchased ala carte, each hands-on, standards-aligned STEM-based workshop costs \$150. With this package, districts enjoy more favorable pricing and flexibility to utilize the seats based on district STEM education needs.

1A. 10 seat package

1B. 20 seat package

Level 2 - Customized Service

Customized in-district support for science, mathematics, engineering, and technology integration:

- Professional development of staff (large, small group)
- Integration into existing curriculum
- Administrative advisory STEM initiative consulting
- Curriculum planning to include support in writing SLO's, Essential Learning Outcomes, and Learning Targets
- Performance task writing, implementation, and scoring support
- CESA #4 staff helps districts find and write grants that support STEM education, curriculum, and purchase of resources (i.e., Fab Lab) .

1 – 10 days @ \$750 per day
11 – 25 days @ \$700 per day
Over 26 days @ \$650 per day
One-half day @ \$450

School District of: _____

Signature: _____

Date: _____