

Clay STEM Initiative Expanded (CSI^E)

This is a developmental grant application for the Investing in Innovation Fund (I3) that will expand a successfully completed Science, Technology, Engineering and Math initiative that has transformed the teaching/learning process for Science instruction and trained teachers and students to collaborate and utilize web-based research, simulations, and applications to apply knowledge through project based learning.

The absolute priority for Clay STEM Initiative Expanded (CSI^E) is Promoting STEM Education. Competitive preference priorities include Technology and Innovations to Address the Unique Learning Needs of Students w/ Disabilities and Limited English Proficient Students.

The project begins in the 8th grade science classroom, includes targeted STEM summer camps for engineering, robotics, and aerospace, and leads to an Academy experience in Computer Science and Engineering.

CSI^E will focus to provide teachers with professional development and equipment which will help them embrace both traditional and advanced teaching methods through technology. At the completion of the **Clay STEM Initiative Enhanced**, or **CSI^E**, you will find students become producers, evaluators as they engage in interactive feedback with their teachers and peers, collaborators in the learning process as together they plug in, power up, and stay connected with web-based research, simulations, and applications to apply science, technology, engineering, and math knowledge through project-based learning. Deliverables will include industry certifications, and students qualifying for high paying jobs right out of high school with the right industry certifications, including students with disabilities and limited English proficient students.

The project is expected to impact approximately 15,000 students over a 60 month period. Estimated award is \$1,459,780.