

SACRAMENTO STEM-POWER -
CALIFORNIA STATE UNIVERSITY, SACRAMENTO (SACRAMENTO STATE)

PR Award #: U336S180055

Organization Name: University Enterprises, Inc. (on behalf of CSU Sacramento)

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Project Model: Pre Bac Model

Competitive Preference Priorities: (1) *Promoting STEM Education, and (2) Promoting Effective Instruction in Classrooms and Schools*

Requested Total Award Amount: \$3,959,019.00

Project Description: STEM-POWER will improve the year-long clinical experience of prospective teachers through professional learning for the teacher preparation program's instructional faculty, clinical supervisors and mentor teachers to focus their modeling, demonstrations, assessments, and feedback on a consistent set of high leverage, research-based practices effective with diverse students. STEM-POWER integrates STEM/CS content areas with essential skills (targeted literacy/ELD strategies, a comprehensive assessment framework), under the over-arching tenets of inclusive practices (Universal Design for Learning, Positive Behavior Support and Intervention, use of Multi-tiered systems of support, and differentiated planning, instruction, and assessment). STEM-Power will also increase new teacher diversity by focusing recruitment activities on the diverse students in the region's public high schools and capitalize on Sacramento State's HSI and AANAPISI status.

Project Expected Outcomes: STEM POWER is a multi-year, intersegmental and collaborative professional learning program for 20 teacher preparation program faculty and 70 mentor teachers, who will transform the Sacramento State multiple subject teacher preparation program ensuring new teachers are prepared to implement STEM POWER's inclusive, high-leverage practices in urban schools serving culturally, linguistically, racially diverse, low income students. STEM POWER will produce a strong cadre of mentor teachers for the 2 district partners, who can mentor prospective and new teachers. Prospective and new teachers who learn the tools of their profession via the STEM POWER pedagogy and curriculum will be especially well-prepared to deliver high quality STEM education to the region's diverse public school pupils. As a result, Sacramento will be a leader for engaging and effective STEM teaching and learning.

Project Special Features: The STEM POWER pedagogy and curriculum focuses on detailed analysis of high leverage teaching practices and uses cycles of rehearsal, analysis, and feedback to support prospective teachers in becoming highly effective new teachers who provide all students, especially those in urban settings, with rich educational experiences. STEM POWER teacher educators have developed the specific skills and knowledge needed to provide consistent, actionable feedback and coaching to prospective and new teachers. STEM POWER uses a set of activities designed to attract diverse high school students to the STEM teaching profession.

Project Partners: Sacramento State Colleges of Education, Natural Sciences and Mathematics, and Engineering and Computer Science; Sacramento City USD and San Juan USD District; and thirteen high-need TK-8 schools.