

PR Award #: U336S190030

Organization Name: The CSU, Chico Research Foundation

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Project Model: Residency Model

Competitive Preference Priorities: Projects designed to improve student achievement or other educational outcomes in computer science

Invitational Priority – Opportunity Zones:

Requested Total Award Amount: \$6,893,403.00

Project Description:

Computational Literacy Across Secondary Settings Project (CLASSP) is a post-baccalaureate teaching residency program leading to a secondary credential in math, science, English language arts, or special education and a master's degree (Absolute Priority). This program will include classroom-based action research and full-time, intensive clinical experience working with carefully selected mentor teachers trained to use Argument Driven Inquiry (ADI) to promote computational literacy in a co-planning/co-teaching clinical practice. CLASSP will improve and promote computational literacy across the content areas, through an emphasis on computational thinking and argument-driven inquiry in mathematics, sciences, English, and special education.

Project Expected Outcomes:

Recruit and retain 72 highly-qualified individuals to the teaching profession in high-need rural areas. Engage selected teacher residents in a year-long full-time teacher residency preparatory curriculum and professional development program that enhances their content knowledge and develops their expertise in computational literacy.

Project Special Features:

CLASSP will focus on creating a middle school to high school pipeline of STEM education in a rural setting by capturing the current and future graduates of the NGMT program, as well as candidates pursuing Foundational Level Science credentials to participate in the residency program in partner middle schools. CLASSP will utilize the most successful parts of the RiSE program to develop a new residency program that will focus on computational thinking. This model aligns with both Common Core and NGSS standards and supports computational thinking. ADI/ADM can be used from elementary level through high school level, so, through CLASSP, there is an opportunity to examine the effects of beginning this model at the middle school level on students' confidence and performance as they enter high school math and science classes.

Project Partners:

California State University, Chico, including the School of Education and the colleges of Arts and Sciences; Gridley Unified School District; Live Oak Unified School District, Willows Unified School District, the Butte, Glenn and Sutter County Offices of Education and Butte-Glenn Community College District