

PR Award #: U336S190046

Organization Name: The University of North Carolina at Greensboro

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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: Yes

Requested Total Award Amount: \$6,146,445.00

Project Description:

The Piedmont Teacher Residency Partnership (PTRP), a Teacher Quality Partnership project of the University of North Carolina at Greensboro, in partnership with Rockingham County Schools and Surry County Schools, will develop an innovative, replicable model for an effective teaching residency program in high-need subjects with a focus on computational literacy in rural areas.

Project Expected Outcomes:

The PTRP will prepare 20 teacher residents to work in the partner LEA schools each year (80 total) with a focus on understanding of teaching contexts and cultures, and the development and application of computational literacy. The program will develop coordinated pathways for mentor teachers in partner schools to take on leadership roles focused on improving computational literacy. Additionally the project will recruit and maintain high quality, diverse teachers to work in high-need schools in the partner LEAs.

Project Special Features:

Combined with induction support and leadership pathways, the reformed MAT will recruit and produce teachers capable of actualizing the potential in students in high-need, rural areas. The program will install makerspaces in partner schools as a mechanism to support MAT residents and their mentor teachers in leveraging students' developing computational literacy to engage in design. The PTRP will intentionally incorporate opportunities for residents and their mentor teachers to support students as they leverage their understanding of computation to develop problem-solving solutions that are authentic and meaningful to their lives and their communities. Computational making in makerspaces has been suggested as a more robust way to develop students' computational literacy and can attract a diverse range of students to computing fields. UNC Greensboro's School of Education is uniquely positioned to include a focus on computational making in general and special education teacher education because it is home to the pioneering SELF Design Studio, a University-based makerspace.

Project Partners: Rockingham County Schools (RCS) including 7 High Needs Schools and Surry County Schools (SCS) including 4 High Need; The University of North Carolina at Greensboro; School of Education; College of Arts and Sciences