

PR Award #: U336S190033

Organization Name: Teacher's College, Columbia University

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Project Model: Residency Model

Competitive Preference Priorities: CPP1: Projects designed to improve student achievement or other educational outcomes in computer science.

Invitational Priority – Yes

Requested Total Award Amount:

Project Description:

The Teaching Residents at Teachers College³ (TR@TC³) will engage Teaching Residents in an 18-month program leading to New York State dual certification and a master's degree. It will recruit academically talented, diverse individuals transforming them highly qualified teachers of Mathematics-Students with Disabilities (TSWD), Science-TSWD, Mathematics-ESOL, Science-ESOL, and ESOL-TSWD. Program components include an 18-month residency, comprehensive two-year induction support, enhanced professional development, supportive mentoring and collaborative research.

Project Expected Outcomes:

Summative and formative evaluations, as well as faculty research projects, will increase the knowledge base for research and teaching. Integration of high-quality preparation and professional development in STEM+C subjects will enable TRs to develop curriculum across content areas and enact it in ways that meet the needs of diverse learners. Engagement with school staff and principals will strengthen school communities enabling unified, sustainable changes. Finally, improving services for students with disabilities and English language learners, generally and within the sciences, will break down traditional boundaries that often limit applicability of specialist knowledge in general education classrooms.

Project Special Features:

The program's distinguishing features include: a core curriculum focused on learners' multiple and integrated needs; targeted opportunities emphasizing intersections between deep investigation of pedagogical foundations and rich experiential learning from student and teacher perspectives; education rounds situating TRs in communities of learners amongst themselves and their residency communities; and the use of empirically based practices with large effects on achievement.

Project Partners:

Teachers College at Columbia University, New York City Districts 5, 6, 9, and 79, the Eagle Academy Foundation, the Fu Foundation School of Engineering and applied sciences at Columbia University, John Jay College of Criminal Justice, the Bronx River Alliance.