

PR Award #: U336S190042

Organization Name: American Museum of Natural History

Address: Central Park West at 79th Street New York, NY

Program Contact: Rosamond Kinzler

Phone: 212-496-3637

Email: rkinzler@amnh.org

Project Model: Residency Model

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

Invitational Priority – No

Requested Total Award Amount:

Project Description:

The AMNH MAT-R program is a 14-month, 36-credit teacher residency program designed for optimal effectiveness in preparing and retaining highly-effective Earth science teachers for service in high-need schools with diverse student populations, including English language learners and students with special needs, with a significant focus on the use of data and technology. In addition to a full academic year of residency in high-need public schools, the model includes two AMNH-based clinical summer field experiences.

Project Expected Outcomes:

This project will expand its residency program to recruit 24 residents each year with an emphasis on under-represented teacher candidates to graduate 72 Earth science teachers by 2023–2024. It hopes to extend the reach and impact of the residency, mentoring, and induction program components to include four high-need partner districts and six residency schools.

Project Special Features:

All courses are co-developed and co-taught by teams of doctoral-level educators and/or scientists. The program is specifically designed to address a need for highly effective Earth Science teachers. It will refine supports for culturally responsive teaching in the program to ensure integration of culturally responsive science teaching practices in the courses, teacher identity workshops, and residency placements; and integrate Computational Thinking (CT) into the curriculum through a collaboration with an external consultant with expertise in CT-integrated curricula.

Project Partners:

American Museum of Natural History; Four school district superintendents of high-need schools in Yonkers, Queens, Brooklyn, and the Bronx; four residency schools' leaders and faculty: Roosevelt High School, Hunters Point Community Middle School, Highbridge Green Middle School, Sunset Park High School; Dr. Irene Lee, MIT Professor and Co-Founder of Project GUTS, for support of integration of computational thinking; Horizon Research, for program evaluation and research expertise; and Dr. Meryle Weinstein, NYU Professor, for impact evaluation work.