

National Math and Science Initiative (NMSI) Scale-Up Proposal Abstract

Project Title: Partnerships to Advance STEM Education: Building College Readiness for All Students

Type of Grant: Scale-up

Absolute Priority:

#3: Improving Science, Technology, Engineering, and Mathematics (STEM) Education

Competitive Preference Priorities:

#1: Improving cost-effectiveness and productivity

#2: Enabling the broad adoption of effective practices

Project Description: The National Math and Science Initiative (NMSI) is applying for this i3 scale-up grant project to catalyze nationwide implementation of the proven College Readiness Program (CRP) by working with 10 LEA partners in 8 states across the country. CRP partners with schools to increase the number of students taking and earning qualifying scores on Advanced Placement math, science, and English (MSE) exams. During the project, we will reach 60,000 students in 40 schools, including 28,000 students directly enrolled in AP courses and an additional 32,000 students in grades 3 through 12 who will participate in pre-AP activities.

Summary of project objectives and expected outcomes:

- Student enrollment in AP courses, particularly among traditionally underrepresented populations, will increase from the baseline year by at least 80% for each LEA partner in the first year and 140% over 3 years
- Students' qualifying scores in program schools in AP MSE will increase by at least 70% for each LEA after year 1 of CRP, with an increase of at least 125% over 3 years
- Teachers will report increased knowledge and use of both content and effective instructional strategies and implement NMSI strategies and techniques
- Schools will add AP courses and alter AP sequencing based on NMSI's recommendations to facilitate expanded access to AP courses and prioritize student success

Total target number of students: 60,000

List of partners: Atlanta Public Schools (GA), Cleveland Metropolitan School District (OH), Detroit City School District (MI), Houston Independent School District (TX), Noble Network of Charter Schools (Chicago, IL), Oakland Unified School District (CA), St. Louis Public Schools (MO), and three small districts in North Dakota (Bismarck Public Schools, West Fargo Public Schools, and Mandan Public School District) (ND).