Project Title: Lone Star Advanced Placement (AP) Computer Science Principles (CSP)

Type of Grant; Absolute and Competitive Preference Priorities: Early Phase; AP 1: Demonstrates Rationale; AP 3: Field-Initiated Innovation STEM-CS; and Computer Science CPP

Number of Students and Grade Levels Served: 25,000 high school (9th-12th grade) students

High-need Student Definition: High-need students are those historically underrepresented in CS – females, low income students, and students of color (African American and Latinx).

Project Description and Activities: The National Math and Science Initiative (NMSI), a 501(c)(3) nonprofit organization, is applying for Lone Star AP CSP to expand the teacher supports in NMSI's proven College Readiness Program (CRP) from a one academic year model to a comprehensive three academic year model, complemented by CRP's standard school and student supports. Additionally, Lone Star AP CSP will provide greater support to school counselors as they identify/recruit students for AP CSP courses.

Project Objectives and Expected Outcomes: All of **Lone Star AP CSP's components are designed to specifically increase access and qualifying scores on the AP Computer Science Principles (AP CSP) exam in 50 schools across Texas by 2023.** We expect to see (a) increased course offerings and enrollment; and (b) increased numbers of underrepresented students (females, African-American, and Latinx students) who can see themselves in future CS courses or careers. Additionally, teachers will report higher confidence levels in CS instruction.

Special Features: Lone Star AP CSP we will design, implement, and evaluate a three consecutive year teacher professional develop and support model to reach AP CSP teachers in 50 schools across Texas; this project represents the first time that the NMSI CRP model has focused for three consecutive years on one key component, while keeping the other two model components constant, creating a promising new strategy to deepen our proven CRP approach, providing specific supports for teachers to increase the number of underrepresented students in computer science.

Project Partners: National Math and Science Initiative (Fiscal Agent); The Beauty and Joy of Computing, Mobile CSP, UTeach, and NCWIT (Implementation Partners); AIR (Evaluation Partner)