Early-Phase Competition - Absolute Priority 2 (STEM) - S411C200074/Education Development Center, Inc.

Improving Equity in AP Computer Science Principles: Scaling Beauty and Joy of Computing

PROJECT ABSTRACT

Project title: Improving Equity in AP Computer Science Principles: Scaling Beauty and Joy of

Computing

Type of Grant Requested: Early Phase: STEM

Priorities: Absolute Priority 1—Demonstrates a Rationale, Absolute Priority 2—Field-Initiated

Innovations—STEM, and Competitive Preference Priority 1 focused on expanding CS

opportunities for high need students.

Total number of students to be served: 2,000

Grade level(s) to be served: Grades 9–12

Definition of high-need students: High-need students include girls, Black and Latinx students,

and students from low-income families, each of whom are under-represented in computing.

Brief project description including project activities: This project will refine and study the

impact of the *Improving Equity in AP CS Principles* program, a two-year computer science (CS)

equity program centered on the Beauty and Joy of Computing (BJC). Activities will include (1) a

school CS equity program (2) a teacher learning program and (3) the use of the BJC curriculum.

Summary of project objectives and expected outcomes: The project will increase schools'

capacity to build an Advanced Placement CS Principles (AP CSP) program and achieve these

goals for high-need students: (1) increase AP CSP enrollment, (2) increase AP CSP exam taking

and (3) increase AP CSP exam passing, working with 40 treatment and 40 comparison schools.

Special project features: The BJC curriculum is free, available online, aligned to the AP CSP

framework and College Board-endorsed, and has been piloted extensively in New York City.

Partnering Organizations: Abt Associates (Abt), North Carolina State University (NCSU),

University of California Berkeley (USB) SAP, Microsoft TEALS, the College Board.