Abstract

- ***Project Title***: Computer Science Micro-Credential (CSMC) Project

- ***Type of Grant Requested***: Early-Phase, Education Innovation and Research Program

- ***Absolute Priorities***: 1 - Evidence Requirement. The project incorporates these research-based strategies: cycles of inquiry, meaningful collaboration, teacher portfolios, and instructional systems coherence. 2 - STEM. The project provides STEM instructional resources for teachers and students in high-need settings, including rural and high-minority districts.

- ***Competitive Preference Priority***: 1 - Computer Science instruction for minority & rural students

- ***Total number of students to be served in the project***: 8,400

- ***Grade level(s) to be served by the project***: 3-8

- ***Your definition of high-need students***: Students in rural schools, students in high-minority schools, and/or students below proficiency in math.

- ***Brief project description including project activities***: 140 teachers will participate in online coursework, regional professional learning communities, coaching, and lesson design in order to obtain a Computer Science Micro-Credential.

- ***Summary of project objectives and expected outcomes***:
  Objective 1: Increased computer science content knowledge and confidence for teachers.
  Outcomes: professional learning hours, designed lessons, and micro-credential attainment
  Objective 2: Improved math achievement for students.
  Outcomes: math growth and proficiency
  Objective 3: Increased awareness of computer science careers for parents/guardians.
  Outcomes: family engagement hours and change in perceptions for parent/guardians

- ***List all organizations partnering with this project***: Ohio Valley Educational Cooperative, BloomBoard, Inc., American Institutes for Research, Louisville Urban League, and ten partner public school districts in north-central Kentucky:

Bullitt County	Henry County
Eminence Independent	Jefferson County
Frankfort Independent	Owen County
Franklin County	Shelby County
Gallatin County	Trimble County