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:

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<th>Bullitt County</th>
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