

Action on Resolution 1718R-010 by Director Bonds to Create a City-wide Computer Science Program at Barack Obama School of Career and Technical Education

The project goals and outcomes are to prepare at least 45 high school teachers across the district for classroom placement with both professional development and endorsements to effectively teach the AP CSP national computer science curricula by 2020 school year.

Scaffolding must be in place for teachers and their students to be successful. Students must have access to preparatory CS courses in earlier grades if they are to succeed in large numbers in the AP CSP course in high school. Thus, the grant has the following sub-goals:

- 1) Prepare at least 45 MPS teachers to teach Exploring Computer Science (ECS), an introductory high school computer science course, important as preparation for AP CSP;
- 2) Prepare at least 54 middle school (6th-8th grade) teachers to offer computer science in MPS;
- 3) Prepare at least 75 elementary school teachers to offer computer science in MPS; and
- 4) Prepare at least 12 undergraduate computing majors to lead after school coding clubs in MPS.

To date, approximately 100 K-5 teachers have been trained in Computer Science Fundamentals (CSF), 13 sixth–eighth grade teachers in Computer Science Discoveries, 12 high school teachers in Exploring Computer Science, two teachers in Computer Science Principles in preparation for teaching AP CSP, and five teachers in Teaching Computer Science to improve pedagogy.