August 2024

Computer Science Professional Development Incentive Fund

FY25 Application Questions

Introduction

The intent of the Computer Science Professional Development Incentive Fund is to build capacity in Iowa's teachers, to provide comptuer science instruction.

Computer Science is…

Understanding how and why technologies work, exploring whether and how technology could solve real-life problems, investigating procedures, creating solutions, and learning about computing systems, programming, data, networks, and the effects on society and the individual. Computer science is learning how to creat new technologies, rather than simply using them.

Computer science is more than computer literacy and digital citizenship. Computer (technology) literacy refers to the general use of comptuers and programs and focuses on how to use technology. Digital citizenship0 builds upon computer literacy referring to the ability to use technology appropriately and responsibly.

Computer science extends beyond computer literacy and digital citzenship in two significant ways. First computer science refers to genuinely undstanding not only how, but also why, technology works the way it does. Second, computer science refers to the ability to not just use technology, but to actually create technology-based solutions. The intent of the Computer Science Professional Development Incentive Fund is to build capacity in Iowa's teachers, to provide computer science instruction.

Endorsement Application ID#578788

Need for Project

1. What is the current computer science reality in your district, school syste, or collaborative? Describe by building, grade level, and/or content area.
2. How does this proposal support your district's established computer science plan?
3. Have the intended eduators received endorsement funding from the CS Incentive Fund previously?

Endorsement Proposal

1. How many educators are directly seeking endorsements in either Computer Science or 5-12 CTE Information Technology?
2. At what school/college/university will the classes be taken?
3. Number of K-5 teachers seeking the endorsement.
4. Number of 6-8 teachers seeking the endorsement.
5. Number of 9-12 teachers seeking the endorsement.
6. Are any teachers seeking endorsement outside of their current grade-level endorsement?

7. When are classes expected to begin?
8. When are classes expected to be completed?

Impact

1. How many students do you predict will be directly impacted by this proposal? Describe how you will know/measure the impact.
2. How will the proposal make a difference for CS instruction in the buildings, grade levels, and/or content ares listed in the Need for Project?

Budget

1. Tuition costs per educator for their associated endorsement.
2. Textbook costs pereducator for their accociated endorsement.
3. Expected fees per educator for their associated endorsement.

Professional Development Application ID#578945

Need for Project

1. What is the current comptuer science reality in your district, school system, or collaborative? Describe by building, grade level, and/or content area.
2. List the specific intended outcomes of the proposal. Be sure to include why you need the funding in order to accomplish this.
3. Have you previously been awarded funding from this grant? If yes. Describe the award.

Project Proposal

1. Descibe the proposal for the use of the requested funds, in your description, be sure to include specfic activies, and timeline, how the proposed activities will meet yhour identified outcomes and the measurements you will use to indicate whether the outcomes were or were not met.
2. How will the CSTA standards be integrated in computer science instruction?
3. How will the proposal help the teachers work towards meeting the CSTA Teacher Standards?
4. If physical computing devices are requested, explain how they are necessary for the implementation of the professional learning.

Impact

1. By what date will identified teachers be ready to teach computer science, as a result of this proposal?
2. How many students do you predict will be directly impacted by this professional development proposal? Describe how you will know/measure the impact.
3. How will the proposal make a difference for CS instruction in the buildings, grade levels, and/or content areas listed in the Need for Project?
4. How many tachers will be impacted by this professional development proposal, by grade level, or area?

Long-term Plan

1. Describe how this proposal fits within your district's established computer science plan.
2. Describe the three-year plan for CS education in your district, school system, or collaborative, including the number of students receiving CS instruction K-12.
    a. Year 1 2024-2025
    b. Year 2 2025-2026
    c. Year 3 2026-2027

Budget

1. Off-Site Professional Development
2. District Hosted Professional Development