



Computer Science Professional Development Incentive Fund

FY 2023-24 Application Questions

Introduction

The intent of the Computer Science Professional Development Incentive Fund is to build capacity in Iowa's teachers, to provide computer 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 create 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 computers and programs and focuses on how to use technology. Digital citizenship builds upon computer literacy referring to the ability to use technology appropriately and responsibly.

Computer science extends beyond computer literacy and digital citizenship in two significant ways. First, computer science refers to genuinely understanding 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# 463665

Need for Project

1. What is the current computer science reality in your district, school system, 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 educators 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? Funding must be spent in FY23
8. When are classes expected to be completed? Funding must be spent in FY23

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 areas listed in the Need for Project?

Budget

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

Professional Development Application ID# 463662

Need for Project

1. What is the current computer 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 award.

Project Proposal

1. Describe the proposal for use of the requested funds. In your description, be sure to include specific activities and timeline, how the proposed activities will meet your 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?

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 teachers 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 3-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 2022-23
 - b. Year 2 2023-24
 - c. Year 3 2024-25

Budget

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