Office of Superintendent of Public Instruction

Computer Science Education SCRIPT Grant 2019–20

Application Guidelines

(October 1, 2019–June 30, 2020)

Purpose

The **S**trategic **C**SforALL **R**esource & **I**mplementation **P**lanning **T**ool (SCRIPT) is a framework to guide teams of district administrators, school leaders, and educators through a series of collaborative visioning, self-assessment, and goal-setting exercises to create or expand upon a computer science education implementation plan for their students.

This $4,500 district grant will support a small team to attend the SCRIPT professional development. Funding is provided through the computer science education grant program supported by the 2019 Washington State Legislature. CSforALL, the national computer science support organization, will provide the in-kind match and assist districts to work on implementing computer science education at a district level.

The professional development will start with a two-day SCRIPT workshop. During the workshop, school district teams will be led through a series of self-assessment and goal setting activities that develop a computer science education vision, and a roadmap for getting there. The goal of the workshop is for district teams to build or expand upon their computer science education implementation plans.

Three months after the initial workshop, SCRIPT training staff will visit participating school districts to discuss implementation progress and provide support. Six months after the initial workshop, districts will come together as a group to report on their successes, challenges, and update/revise plans to achieve goals.

Background

There is continuing enthusiasm around Computer Science (CS) education. Learning CS helps students develop systemic thinking skills for problem-solving, practice logical deduction, and learn to express themselves with greater precision and clarity. Students should have access to computer science learning experiences at every grade level; providing these pathways will prepare them with the in-demand skills they need to thrive in a rapidly evolving world. Computer scientists are employed in a variety of settings, such as big tech firms, government agencies, startups, and nonprofits.

Computer science is moving from an entirely elective subject in K-12 schools to a more integrated model with a focus on including all students. The 2019 Washington State legislature passed a law (SB 5088, 2019). that requires each school district that operates a high school to offer students an opportunity to access an elective computer science course by the 2022-23 school year.

Districts need support to meet state legislation that provides access to equitable computer science education. Even with strong community and district support, successful implementation of computer science must be aligned with school and district priorities. For many schools, computer science is an entirely new subject, and requires a different approach than simply modifying an existing discipline.

The SCRIPT supports systems-level change by addressing five key areas: (1) Leadership: (2) Teacher Capacity and Development: (3) Curriculum and Materials Selection and Refinement: (4) Partners: and (5) Community. SCRIPT workshops are designed to engage districts with the rubrics and create a goal-setting process where they can create individualized plans for computer science education.

SCRIPT-created rubrics, combined with a visioning and goal setting process, can create the ability for school leadership teams to implement thoughtful plans regarding

computer science education. Additionally, it allows districts to critically define the local efforts needed to implement an equitable approach to computer science education.

Districts must assemble a team of three to six participants to attend the workshop. The team must consist of a district-level administrator(s), school administrator(s) and instructional staff with CS teaching roles. The instructional staff could be a standalone CS teacher from a high school, an elementary teacher who provided CS or computational thinking activities in their classroom, or a library media specialist who carried out CS lessons in the computer lab.

Aspects of computer science can be learned without the use of computer hardware or technology of any kind. Districts are encouraged to:

- Think creatively about the most effective means of advancing student knowledge and skill in computer science.
- Consider and demonstrate how their proposal supports the integration of computer science in other content areas.
- Provide an inspiring and inclusive K–12 computer science experience that empowers students at every age level, appeals to students of diverse backgrounds, and challenges them to solve real-world problems.

Applicant Eligibility (who can apply)

- Tribal compact or tribal schools
- School districts

Requirements

Districts MUST:

Self-assess their current CS program against the rubric in each area.

Districts will view resources and example goals and write three- and six-month goals related to CS education.

- Districts must assemble a team of at least three but no more than six

participants to attend the workshop.

- The team must consist, at minimum, of a district-level administrator, school administrator, and instructional staff with a CS teaching role.
- Prepare innovative ways to engage and serve students from groups of non-traditional and historically underrepresented students to computer science.

Timeline

Application opens via iGrants—October 7, 2019

Applications close—4 pm, October 14, 2019

Grants announced— October 16, 2019

Initial Workshop will be determined by location of award recipients

State funds expended by June 30, 2020, for the fiscal year 2019–20

Letters of Support

Applicants may choose to include letters of support that convey organizational commitment and project sustainability.

Supporting Resources

Washington State Computer Science K–12 Learning Standards: http://www.k12.wa.us/ComputerScience/LearningStandards.aspx

K–12 Computer Science Framework: https://k12cs.org/

Equity in Computer Science Education: https://k12cs.org/equity-in-computer-science-education/

CSforAll SCRIPT Program https://www.csforall.org/projects_and_programs/script/

CSforAll Consortium: http://www.csforall.org/

San Francisco Unified School District: https://www.csinsf.org/

National Center for Women and Information Technology: https://www.ncwit.org/

Code.org: https://code.org/

How to Apply

Application for the Computer Science SCRIPT Grants (form package 927) must be submitted through OSPI's iGrants at https://eds.ospi.k12.wa.us/iGrants/Default.aspx.

If you do not currently have access to iGrants, directions on how to gain access can be found here: https://eds.ospi.k12.wa.us/iGrants/Docs/15-16/Help/gainingaccess.html.

Application Questions

The application questions in this guidance document are provided for your information and planning purposes only.

Please be as thorough as possible. Answers should reflect the current school year. Information provided should relate to all schools in your district/network/tribal community, even if one or more schools are not represented at the workshop.

By completing this form, you are acknowledging that your district/ school/tribal community is able and agrees to meet ALL requirements for participation in the SCRIPT work, including (1) the participation of at least ONE OF EACH of the following: district administrator/tribal department of education, school leader, and educator, for the entirety of the SCRIPT work; and (2) the completion of ALL data collection instruments including pre- and post-workshop surveys, a series of self-assessment rubrics, a goals submission form, as well as three-, six-, and 12-month **follow-up surveys**. Please verify that you understand and are able to meet all requirements.

☐ I understand and agree.

Data Collection and Sharing

CSforALL and OSPI would like to include responses collected in this survey as well as all subsequent SCRIPT data collection instruments to share in publications regarding this specific topic as well as share in other workshops similar to this one, anonymously and in aggregate ONLY - not identified to your individual district/school/tribal community. This may involve sharing anonymous data with research partners and other workshop participants for analysis and comparison only. Please indicate if you are willing to include your responses.

- ◯ Yes, we are willing to include our responses in aggregate and anonymously.
- ◯ No, we are not willing to include our responses.

Contact Details

Lead Organization (serving as fiscal agent)

Lead Applicant Contact Information:

Name:

Title:

Organization:

Email:

Phone:

General Information

Number of students * (Elementary, Middle School, High School)

Number of educators (full- and part-time) *(Elementary, Middle School, High School)
Number of Elementary Schools _____

Number of Middle/Junior High Schools_____

Number of High Schools _____

What major initiatives are you focusing on during the current school year? Broad Initiatives could include: Literacy, Mathematics, Project Based Learning, workforce development, school to

work skills, CTE, Engagement (attendance, participation, overall performance, graduation rates).

Budget:

Item	Request
Salaries	
Benefits	
Travel	
Total	

Grant Application Review

A minimum of 10 districts will be selected. The following scoring rubric will be used in the review process.

Scoring Rubric

Scored Questions	Points	Outstanding (pts. 11–15)	Competent (pts. 5–10)	Below (pts. 0–4)
Team Members	15	All apply	Two apply	One or zero apply
Student Population	15	Includes all of the required elements and is clear and compelling.	Includes some of the required elements and is somewhat clear and compelling.	Includes a few of the required elements and is marginally compelling.
Ready to Implement	15	Includes all of the required elements and is clear and compelling.	Includes some of the required elements and is somewhat clear and compelling.	Includes a few of the required elements and is marginally compelling.
Total Points	**45**			

For questions about this grant opportunity, please contact:

For questions related to Computer Science Grants, contact:

Shannon Thissen

Computer Science Program Supervisor

360-725-6092

shannon.thissen@k12.wa.us

For CTE questions, contact:

Lance Wrzesinski

Business and Marketing Program Supervisor

360-725-6258

lance.wrzesinski@k12.wa.us