# COMPUTER SCIENCE EDUCATION GRANT
## REQUEST FOR APPLICATION

Clark County, Washoe County, Rural Counties, and Charter School Authority

### GRANT OVERVIEW:

Purpose: To help districts and charter schools to meet the provisions outlined in Senate Bills 200 (79th Legislative Session, 2017) and 313 (80th Legislative Session, 2019); to expand computer science education to all K-12 students in Nevada; to provide quality professional development that will directly impact teachers and students in ways to teach to the standards for computer science and computational thinking in the classroom; to provide quality professional development for administrators and counselors in efforts to increase CS enrollment by females, students with disabilities, and underrepresented groups in the field of computer science.

Proposals Due: **August 30, 2019, by 5:00pm**

Funding Available for FY2020:
- Clark - $400,000 (specific allocation)
- Washoe - $100,000 (specific allocation)
- Rural Districts and Charter School Authority - $200,000* (non-competitive allocation)

Clark County School District and Washoe County School District have specific assigned amounts. Rural districts **may** apply as a consortium. The Charter School Authority **must** apply as a consortium. In the case of any consortium, EACH district/charter must complete their own report of expenditures that add up to the designated fiscal agent/Charter Authority's report of expenditures. This will help facilitate the specific usage of funds within the consortium. Charter schools under the same name that may have multiple locations should provide one budget and narrative to the Charter Authority for all locations. This is a non-competitive allocation. Funding will be adjusted based on number of applicants.

Website: NDE Grants Page

NDE Contacts:
Program questions: Cindi Chang, EPP over Computer Science | 702.486.7952 |cchang@doe.nv.gov

Budget questions: Susie King, Grant Analyst | 775.687.9181 | susieking@doe.nv.gov

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**INTRODUCTION:** Computer Science is more than just computer programming. It is computational thinking, logical reasoning, critical thinking, and problem solving. These are tools our students need to be successful in the world they are now living in and the future that is to come.

"These skills strengthen local community, national innovation, and opportunities for youth. Computer Science – not computer literacy – underlies most innovation today, from biotechnology to cinematography to national security. Yet, the majority of U.S. schools require only students use computers. Seldom do schools prepare students to innovate and create the new technologies that drive local and national economies. This ability to innovate with technology is also important for students' future success and ability to make a difference in a global society." (NCWIT.org)

Senate Bill 200 was enacted to expand Computer Science education, to help move Nevada forward to more equitable access for all students, and to assist district leaders and classroom teachers in the implementation of these initiatives through high quality professional development. Senate Bill 313 is a continuation of this work.

"Computational Thinking" means problem-solving skills and techniques commonly used by software engineers when writing programs for computer applications. Such skills and techniques include, without limitation, decomposition, pattern recognition, pattern generalization, and designing algorithms. "Computer coding" means the process of writing script for a computer program or mobile electronic device. (SB 313, 80th Legislative Session, 2019)

**FUNDING TIMELINE:**
Request for Application (RFA) opens 8:00am *August 1, 2019*
Request for Application (RFA) closes at 5:00pm *August 30, 2019*
Award letters sent to districts and charters, on or before this date *September 15, 2019*
Approved expenditures may begin and RFF forms may be submitted upon receipt of award letter but no later than *September 15, 2019*
End of allocation period *June 30, 2020*

**ELIGIBLE USE OF FUNDS:** Included are some suggested uses of funds that are approved and should help you meet the requirements.

   • *Professional Development* that will directly impact teachers and students in ways to teach to the standards for computer science and computational thinking and digital literacy prior to 6th grade;

may include teacher stipends for qualified professional development; RPDP trainings and travel; statewide Computer Science Summits; and CS Conferences (i.e. CSTA, ISTE, and others).

• *Professional Development for administrators and counselors* on new graduation and college admission requirements with regards to computer science courses; teacher licensure requirements; CS teacher evaluation training, and efforts to increase enrollment by females, students with disabilities, and underrepresented groups in the field of computer science.

• *Curriculum Development* and equipment that directly ties to computer science instruction and the expansion of computer science education in all grade levels. (e.g. Robotics kits to be used within curriculum developed to implement the NVACS for Computer Science in a third grade classroom\*). *only one example of many possible*

*NOTE: There is a heavy emphasis on professional development in SB 200 and SB 313. Requests for equipment alone without a sustainable plan for broadening computer science across all grade levels or teacher professional development in computer science and computational thinking instruction will not be approved. This Computer Science Education Grant is different than previous education technology grants (such as Nevada Ready 21) that primarily supply equipment and provide training on that specific equipment for use in the classroom.*

## APPLICATION REQUIREMENTS:
Please submit the following –

- Completed application form (Section 1)
- A brief narrative on the goals and measurable outcomes of the use of these funds to support computer science education in your district, including a 5-year strategic plan (Section 2)
- In your narrative, include your district plan to increase enrollment/interest of females, students with disabilities, and underrepresented minorities in computer science. (Section 2)
- A budget summary with narrative
- Statement of Certification and Assurances

Send these application items via email to grantinfo@doe.nv.gov **AND** cchang@doe.nv.gov
**NO LATER** than **August 30, 2019, by 5:00pm**.

## CONTACT INFORMATION:
Program questions: Cindi Chang, EPP Computer Science | 702.486.7952 | cchang@doe.nv.gov
Fiscal questions: Susie King, NDE Grants Analyst | 775.687.9181 | susieking@doe.nv.gov

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SECTION 1**:**

Name of charter/district OR consortium members (list fiscal agent district FIRST)
_____
_____

Contact Person(s):
_____

Job Title:
_____

Address:
_____

Phone:
_____

Email(s):
_____

Amount Requested: $_____

SECTION 2:

In an attached document, please supply a brief narrative on the goals and measurable outcomes of the use of these funds to support computer science education in your district/charter. Please include:

• Overall goal of your use of funds, to include 5-yr strategic plan that includes equity and diversity measures to be taken for increasing enrollment of females, students with disabilities, and underrepresented minorities in CS courses

• Professional development plan to include estimated number of educators– teachers, counselors, administrators - to be trained

• Expected measurable outcomes to include estimated number of students to be reached, the grade levels targeted, and how CS education efforts will be measured in your district

• Proposed technology purchases and how they will expand computer science education specifically