Amazon Future Engineer + BootUp
Elementary Computer Science Initiative
Copy of Application Form

District-Level Questions

This section will request details about your district as a whole.
* Required

Applicant Details

Applicant Name: *

_____

Applicant Job Title: *

_____

Applicant Email: *

_____

Applicant Phone: *

_____

District Details

District Name: *

_____

District Physical Address:
Street Address: *

_____

City: *

_____

State: *

_____

Zip Code: *

_____

District Website: (optional)

_____

District Phone:
(10-digit format - ex. 111-111-1111)

_____

What grade levels does your district consider to be elementary? *
□ KG
□ 1st
□ 2nd
□ 3rd
□ 4th
□ 5th
□ 6th
□ 7th
□ 8th

District - Total Elementary Schools: *

_____

District - Total Title I Eligible Elementary Schools: *

_____

District - Total Elementary Classroom Teachers: *

_____

District - Total Elementary Students: *

_____

District Free and Reduced Lunch Students (%): *

_____

District Minority Students: (%): *
*NCES Definition: "Minority students include students who are Black, Hispanic, Asian, Pacific Islander, American Indian/Alaska Native, and of Two or more races"

_____

NCES's urban-centric locale categories: *
*Search for your district's NCES locale here.
○ City

○ Suburb
○ Town
○ Rural

How did you hear about the Amazon Future Engineer + BootUp Elementary CS Initiative? Select all that apply:
□ NSBS conference or communications
□ AASA conference or communications
□ Social Media
□ Local Elected Official
□ Postcard
□ Email
□ BootUp Website
□ Amazon Future Engineer Website
□ Other: _____

School and Student Participant Questions

This section requests details about elementary schools within your district interested in participating in the Amazon Future Engineer + BootUp Elementary CS initiative.

Grades Participating

Please check all elementary grades that will be participating in this program. Leave any grades that do not apply unchecked.

□ KG
□ 1st
□ 2nd
□ 3rd
□ 4th
□ 5th
□ 6th
□ 7th
□ 8th

Schools Participating

This table requests details about how many of your elementary schools will participate compared to your total number of elementary schools. These numbers should include both Title I eligible and non Title I eligible elementary schools.

Elementary Schools Participating in Initiative

_____

Total Elementary Schools in District

_____

Title I Eligible Schools Participating

This table requests details about how many of your Title I eligible elementary schools will participate compared to your total number of elementary Title I eligible schools.

Title I Eligible Elementary Schools Participating in Initiative

_____

Total Title I Eligible Elementary Schools in District

_____

Teachers Participating

This table requests details about how many of your elementary teachers will participate compared to your total number of elementary teachers.

Elementary Teachers Participating in Initiative

_____

Total Elementary Teachers in District

_____

Students Participating

This table requests details about how many of your elementary students will participate compared to your total student population.

Elementary Students Participating in Initiative

_____

Total Elementary Students in District

_____

Participation Numbers Over Three-Year Sponsorship

New Schools - The number of NEW schools joining each year of the three-year sponsorship.

New Teachers - The number of NEW teachers starting PD each year during the three-year sponsorship.

New Students - The number of NEW students impacted each year during the three-year sponsorship.

Totals will populate under each column. Do not count schools, teachers, students included in previous years. These should match your responses to the total school, teacher, and student participation questions above.

	New Schools	New Teachers	New Students
Year 1			
Year 2			
Year 3			
Total			

Narrative Application Questions

Demonstration of Need

Responses should focus on district and district impact:

- How will your district, teachers, and students benefit from participating in this initiative?
- What computer science support is your district currently providing, if any?

_____
_____
_____

Professional Development

Responses should focus on teacher and teacher impact:

- Who will be teaching computer science? (Classroom Teachers, Specialists, Lab Managers, EdTechs, Librarians, Other)
- How many teachers will participate in professional development?
- Please explain how and when your teachers will be able to attend PD workshops. (schedule PD days, use in-service days, schedule during the school day, summer, weekends, etc.)
- Can participants meet as a Professional Learning Community (PLC)?
- Will Professional Development be mandatory or voluntary?
- Will you provide stipends or substitutes to ensure teachers attend PD.
    - If not providing stipends or substitutes, and if voluntary, how will you incentivize teachers to participate?
- Will implementation in the classroom be mandatory or voluntary for participating teachers?
    - If voluntary, how will you ensure computer science will be taught?

_____
_____
_____

Professional Development Program Details:
Professional development will occur through a combination of workshops and in-person model teaching and coaching spread out over time. BootUp will provide 8 in-person, full-day (6 hour) workshops over the first two years of participation (typically 4 workshops per year), and additional onsite model teaching and coaching for each participating teacher. PD is scaffolded for teachers to begin teaching and practicing in the classroom after their first workshop.

Implementation Plan

Responses should focus on plans for students and student impact:

- Where and when during the school day, will students receive computer science instruction? (regular classroom, specialist rotation, computer lab, other).
- How often and for how long will the same students receive CS instruction? (45 minutes every week, 20 times a year for 30 minutes, 60 minutes every other week)
- Which students will receive CS instruction?
- Which students will not receive CS instruction?
- What is your device to student ratio?

_____

_____

_____

Implementation Plan Recommendations:
Providing computer science instruction during the school day is a strategy to ensure all students participate.

The practice and consistency of weekly instruction has led to the biggest gains from both teachers and students. Improvements in students' computational thinking aptitude have been seen when teachers did coding (Scratch or ScratchJr) with their students at least once per week for 45 minutes.

A ratio of at least one device for every two students is recommended. Recommended devices include tablets, Chromebooks, or desktop computers.

Instructional Coach(es)

Who will serve as an Instructional Coach(es)?

- Will they have enough time to support teachers participating in the initiative?
- Will they be compensated for their time?

_____

_____

_____

Instructional Coach(es) Program Details:
The Instructional Coach(es) will serve as the main contact between the PD provider (BootUp) and your teachers. They will complete an online Instructional Coach course which includes 16 hours of content and an additional estimated 50 hours becoming familiar with lesson plans and projects. Instructional Coaches will eventually be responsible for championing the initiative and ensuring progress once the award is complete.

Instructional Coach(es) Recommendation:
A district-level Instructional Coach with dedicated time to spend on this initiative is recommended.

Sustainability

Please provide a summary of how you will sustain the initiative once the 3-year award has ended?

- How supportive are teachers, principals, district administration, and the community of this initiative?
- What expectations (accountability, communication, engagement, etc.) do you have for each of these groups?
- What support will your district provide for each of these groups to engage in your initiative?

_____

_____

_____

Sustainability Program Details:
The initiative will use the free open-source coding platforms, Scratch and ScratchJr. and BootUp's free project-based curriculum. BootUp's curriculum, which includes over 90 projects and teacher lesson plans is available to anyone, at no cost, and there are plans to continue to update and release hundreds of additional projects over time. Therefore, there are no significant costs to support teachers as they implement these projects in their classrooms year after year.

Sustainability Recommendation:
Teacher, principal, district, and community support are vitally important to the success of your initiative. Family influence is a predictor of students' coding attitudes and can garner teacher, family, and community support. Yearly, family code events are a way to involve families and the community as they learn to code through introductory activities.