



**THE SIERRA SCHOOLS FOUNDATION**  
**"ROOTS & BOOTS" GRANT COVER SHEET**  
**DECEMBER 2019**

**Title of Project:** STEAM LAB      **School Site(s):** Downieville Elementary      **Grade Level(s):** K-6

**Name of Teacher or School Applicant:** Katrina Bosworth (and elementary staff)  
**Phone - Work:** 530-289-3473 ext 452  
**Phone - Home:** 530-289-3292  
**Mailing Address:** PO BOX 211 Downieville Ca 95936  
**E-mail Address:** kbosworth@spjUSD.org kattboz@gmail.com

**Names of Other Applicants (if any):** Niecea Freeman and Patrick Wilson

<b>Type of Project:</b> <b>BOOTS:</b> (Circle Type)	<b>STEM (Science, Technology, Engineering, Math)</b>	<b>ROOTS:</b> Outdoor Education Environmental Science Agricultural Science Rural Heritage Curriculum Dev./Training
	Visual & Performing Arts	
	Career Development/ College Readiness	
	Social/Emotional Learning	
	Curriculum Development/Teacher Training	

**Brief Description of Project, including GOALS for your students: (Not to exceed 60 words):** Expand our STEAM Lab for elementary students to include technology, learn coding and 3d Printing across the curriculum

**Grant Application must include (in this order):**

- Completed cover sheet
- 1-2 page narrative (see back of this page for narrative guidelines)
- A separate page with project budget (see back)
- Signature (page 3)
- Other informational attachments (not required)

Total Project Cost: \$760.00	Duration of Project: ongoing and continuous
Funding Requested: \$760.00	Lifespan of Equipment: up to 10 years
Number of Students Directly Involved: 32	Academic Areas Enhanced: Science, Math, Art, Technology

How many Pages are included in this application? 7

**RANKING GUIDELINES:** The Sierra Schools Foundation will rank grant proposals on the following criteria:

- \*The degree of curriculum enhancement in an area of demonstrated need.
- \*The degree the project/program directly engages students.
- \*The longevity of the project/program without requiring additional funds.
- \*The number of students directly/indirectly involved.
- \*The degree to which the project/program can measure and celebrate its success through either objective or subjective means. (Pre- & Post surveys, Youtube video, Letters to teacher, Articles

published in local newspapers with photos, etc.)

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**NARRATIVE GUIDELINES:** In 1-2 pages please address the following issues:

- A. Statement of need for your program (What are the student learning needs or enhancements?)
- B. Program/Project Description (What program/project - for which you need these funds - do you want to implement for your students?)
- C. Program Objectives Tied to Foundation Focus Areas/Application to State Standards (What skills or competencies do you want students to achieve? How does your grant tie into the State Standards?)
- D. Methods (Describe the activities you will implement in this program to achieve the objectives.)
- E. Assessment & Accountability (How will you measure your students' achievement of the objectives and how will you let donors know about the progress and success of your project?)
- F. Future Funding (What resources will you need from the Foundation in the future to build or sustain this program?)
- G. Why was this program/project not funded by the District or any other sources?

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**BUDGET FORMAT GUIDELINES** Please provide an **ITEMIZED, SPECIFIC** budget of this program/project. Please calculate gas as follows: **Gas per mile: \$0.545**

Title of project/program :Steam Lab\_\_\_\_\_

Item	Cost \$	707.02
Tax	Cost \$	52.98
Shipping	Cost \$	0
Total cost of project	\$	760.00
Other funding source (only if applicable)	\$	-
Other funding source (only if applicable)	\$	-
<b>Total other funding sources</b>	\$	-
<b>Total request from The SSF</b>	\$	760.00



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DECEMBER 2019

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*Thank you for your dedication to your profession! We look forward to supporting your efforts in enriching the education of Sierra County students.*

As members of the Sierra Schools Foundation, we are dedicated to funding programs that enhance your students' experience. To aid our efforts, we request that, when you can, in social media, collateral pieces, promotional pieces, news interviews, etc., you seize the moment to acknowledge the Sierra Schools Foundation as the source of your funding.  
Thank you in advance.

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**Please read the following carefully and sign below.**

I will help the Sierra Schools Foundation maintain and continue their grants program by:

- Supplying the Sierra Schools Foundation ([foundationsierraschools@gmail.com](mailto:foundationsierraschools@gmail.com)) with photographs and a follow-up synopsis of my grant in action.
- Submitting *all* receipts for any items/events related to grant within **thirty days** of the completion of my event/project, etc.

By signing below, I certify all information is true and correct to the best of my knowledge.

Signature of Applicant Katrina Baworth Date 12/20/19

Signature of Site Administrator \_\_\_\_\_ Date \_\_\_\_\_

*If you have any questions regarding this application  
please contact Katherine Genasci at [kgenasci@spjUSD.org](mailto:kgenasci@spjUSD.org) or 720.670.8631.*

Dear Sierra Schools Foundation,

As an elementary site team we are creating a STEAM room for use by our students grades K-6. As part of our program we would like to include coding and 3D printing technology to expand our students' knowledge and abilities in the fields that are growing in the world today. We have just started creating this lab this year and have limited resources and materials and are asking the foundation to fund a 3D printer and 2 maker bots for our students to learn coding on and explore these areas.

Our students have a love of anything technological and many are limited in their family's ability to help provide them with exposure to such materials. As a staff we are looking to find ways to incorporate these fields across the curriculum we teach every day in our classrooms and feel these tools will aide us in our ability to reach and engage our students on a new level in the classroom more regularly if we have access to these materials on a daily basis.

We are asking for 2 of the maker bots as this will enable multiple students to participate at once and to allow students to compare/compete their creations against another bot to allow analysis and problem solving in the building process as they compare how each bot functions differently and find ways to improve their designs.

Students will create design and compete with the bot and then analyze what worked and didn't work and then brainstorm ideas and test those new ideas to improve their bot. 3D printing will allow students the ability to enhance their social studies and language art projects and research by including hands out designs to represent their studies. It will also allow them the experience to learn the technological aspects of designing with computers.

We anticipate these items to be one time purchases with additional purchases of filament (the material needed to print 3D objects) or expansion parts for the bots to be paid for through class and district funding since these products are less costly than the initial large ticket purchases of the printer and bots. We expect these large purchases life expectancy to be up to 10 years. The most likely reason for the expectancy to not be that long has to do more with technology upgrades and not failure of the item itself. These items will be housed in a specific room with limited access except with one of the teachers present at all times to be sure of proper use of the items.

Thank you for your consideration of our request.

STEAM LAB SSF Winter Grant Cycle Budget

1 Monoprice maker Select Plus 3D Printer	\$329.99
1 Design for 3D Printing Book	11.79
1 Make: Getting Started with 3D Printing book	15.49
2 Makeblock mBot Ranger Transformable STEM Educationa Robot kits	257.76
1 Make: mBot for Makers: Conceive, Construct & Code...	16.99

Extra Filament for 3D Printer (to be ordered separately in possible colors  
As decided by teachers/students together) cost is about \$25/roll 75.00

Sub total	\$707.02
Tax 7.5% (approx.)	52.98

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Total Cost \$760.00



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> Johannes Wild  
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\$14.99

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52

\$20.59

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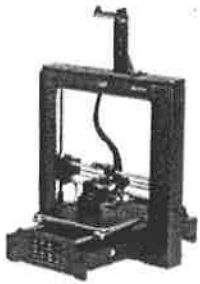
AC Adapter Charger for...  
98

\$14.97

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Price



Monoprice Maker Select Plus 3D Printer  
With Large Heated (200 X 200 X 180 mm)  
Build Plate, LCD Touchscreen Display +  
Free Sample PLA Filament And MicroSD  
Card Preloaded With Printable 3D Models  
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Design for 3D Printing: Scanning, Creating,  
Editing, Remixing, and Making in Three  
Dimensions by Samuel N. Bernier  
Paperback

\$11.79

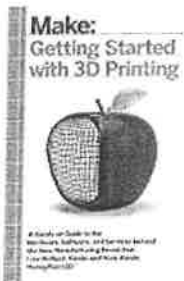
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Getting Started with 3D Printing: A Hands-  
on Guide to the Hardware, Software, and  
Services Behind the New Manufacturing  
Revolution by Liza Wallach Kloski  
Paperback

\$15.49

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mBot for Makers: Conceive, Construct, and  
Code Your Own Robots at Home or in the  
Classroom by Andrew Carle  
Paperback

\$16.99

In stock on December 30, 2019

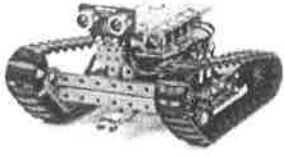
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\$128.88



Makeblock mBot Ranger Transformable STEM Educational Robot Kit, a three-in-one educational robot kit for both learning programming and having fun

\$128.88ea

cost of 2 = \$257.76

In Stock

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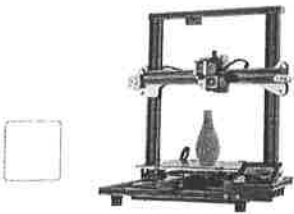
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Subtotal (6 items): \$632.02

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