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Q1 LEA School/District Name

Lakeside School District

Q2 LEA Contact Name

Blake Campbell

Q3 LEA Contact Title

Assistant High School Principal

Q4 LEA Contact Email

Blake_Campbell@Lakesidesd.org

Q5 LEA Contact Title

High School Assistant Principal

Q6 LEA Contact Phone Number

(501)617-5990

Q7 Grant Level Proposal

Small - Under \$7,500

Q8 PROPOSAL DESCRIPTION (MAX 3000 Characters) - provide a narrative regarding the need for the proposed program/project, specific goals to be achieved, and how if funded the program is likely to achieve those goals.

Need: Currently only 45 students in Computer Science courses Only 18 are female Goals: 1) Expose more female students to computer science and other STEM-related fields of study. 2) Increase community awareness/support of computer science at Lakeside 3) Provide young women at Lakeside High School an opportunity to engage in and bond with a world-emerging field of study. 4) Expand access to computer science related material and curriculum for low-income and minority students, who statistically have a lesser opportunity due to cost and availability. Method of Achievement: Develop a Girl:Code club Reach out to the community in order to develop strong relationships/show relevance Compete in robotics competitions that use Code (VEX competitions) Allow club members to serve as role models during summer robotics camps for younger grade levels.

Q9 PROPOSAL TIMELINE (MAX 1500 Characters) - list major activities of your proposal with approximate target dates

January 2019: order supplies begin recruiting students (club fair, students in robotics, teacher input through RamFAM advisory)
February 2019: begin meeting with students, reach out to community--speakers/real-world glimpse of robotics use Caterpillar Triumph Lockheed Martin Dassault Falcon Jet Mid-America Science Museum Henderson STEM Center Mechatronics - COTO ASMSA March 2019: attend first robotics competition as spectators (Tech) May/June 2019: attend VEX EDR Basic Coaches Training June 2019: Host summer coding camp(s) grades 3-12 August 2019: Participate in the first robotics competition March 2020: Continue competitive participation

Q10 PROPOSAL EXPECTED RESULTS (MAX 1500 Characters) - Describe the student outcomes, or changes, that will result if this proposal is funded.

More students developing an interest in computer science Increased participation in computer science courses/programs More students prepared to enter college/career with computer science knowledge/credentials Expand curriculum at secondary-level with intent to carry down to lower grades.

Q11 PROPOSAL EXPECTED IMPACT (MAX 1500 Characters) - Describe the estimated number of students, teachers, and/or community members that will be impacted and how they will be impacted if this proposal is funded.

this proposal is funded. Students: Immediately 25 students with potential growth of 150 Teachers: 2 Community: 8 education and industry leaders

Q12 INNOVATIVE ASPECT (MAX 1500 Characters) - Describe why this proposal is creative and should receive funding as an out of the box way to support student growth/achievement.

Extra-curricular participation serves as a major component for the well-being of a student's educational experience. Unfortunately, Lakeside has yet to address the interests of computer science driven students outside of the general curricula. By providing this avenue, Lakeside students are given the opportunity to build relationship and collaboration skills with their peers, teachers, and community members, establish a sense of purpose and place within their school system, advance their understanding and interest in a quickly growing field, and provide a means to support and grow the computer science program as a whole.

Q13 TRANSFORMATIVE POTENTIAL (MAX 1500 Characters) - Describe how this proposal if funded and implemented beyond your program has the ability to raise student achievement across the state.

Through the initiation of this program, Lakeside will have the capacity to host a central Arkansas VEX Robotics Competition. Not only would this attract regional schools, but other Garland county districts would also find excitement and a similar interest in the provided opportunity. In addition, the collaboration between Lakeside students, industrial organizations, and educational institutions would provide insight into the importance of computer science education within secondary education. Local university, Henderson State, has recently adopted a computer science course study, which has the possibility of attracting local students to pursue their passions and interest within the field.

Q14 FOLLOW UP and/or MARKETING/OUTREACH (MAX 1500 Characters) - Describe how your organization will follow up on this program after completed and/or how it will be marketed to and awareness raised within the community if the proposal is funded.

We have already spoken with many community leaders including, Triumph, Reynolds Aluminum, and National Park College. They are extremely interested and willing to engage and support the Lakeside computer science initiative in combination with technical career education pathways. This is a never-ending project or program; only, if-successful, it will continue to grow and increase in size across the community and Lakeside campus.

Q15 Budget Proposal

CS Grant Proposal Budget.pdf (356.2KB)

Computer Science Grant Proposal Budget
Lakeside High School (LEA 903)

Product Supplier

VEX Robotics

Email: sales@vexrobotics.com

Fax: (214-722-1284)

Quantity	Product	Base Price	Total Cost
1	V5 Classroom Super Bundle (276-6750)	\$6,999.99	\$6,999.99
1	Ground Shipping & Handling	\$137.93	\$137.93
		Final Cost	\$7,137.92

Product Description

- Contains over 28,000 electronic, motion, and structure components to outfit up to 24 students.
- Contains VEX Coding Studio software for beginning programmers, which transitions into more professional coding platforms such as C++.
- Contains everything needed for mastering the basics of coding and more advanced engineering concepts.
- Contains all necessary components for extending usage into VEX Robotics Competitions.