



Foundation For Allen Schools Grant Application

Scholarship Fund Amount: \$0

Application #: AP191131

Applicant First Name: Raul

Applicant Last Name: Castillo

Applicant Email Address: raul.castillo@allenisd.org

Gender:

Cell Phone #:

High School:

Post Secondary School:

Application Status: Submitted

Application Questions and Answer

Question	Answer
Preferred name/name that you go by:	Raul
Best phone number to reach you at:	+14695693421
Campus	Ereckson Middle School
Grade(s)	7;8
I have co-applicants:	No
Please provide your work-related Facebook contact information.	
Please provide your work-related Twitter contact information.	
Name of Grant	Ready, Set, Build!
Please select the MAIN curriculum area your grant addresses.	Science / STEAM

Does your grant have a technology component?	No
Will other campuses be involved/impacted?	No
Will other grades be involved/impacted?	Yes
How many students will be involved in this grant?	24
Are there any additional funds available for this grant?	No
What is the problem, need or opportunity that this grant will address? Describe the impact of this project on your students.	Participating in a competitive robotics club places a demand on our existing supply of parts as many gears tend to break, metal pieces need to be cut, and wear-and-tear on motors and batteries diminishes our capability to perform at peak levels. The purpose of this grant is to provide funding for various mechanical, structural, and electronic parts to ensure useful components are available, which in turn help provide an atmosphere of creativity, foster growth, and promote experimentation.
How will the project or program be implemented? Describe activities and tasks. Who is the target population and in what ways will they benefit?	In order to provide students with engaging activities, VEX robotics rolls out a new challenge every year to push student creativity and interaction which in turn helps students adapt to the challenges our changing world provides. New challenges mean new tools are needed and, therefore, creativity is spurred along with new partnerships and learner communities.
Provide a brief summary for use on the Foundation's website and social media.	It is said that to make an omelet some eggs need to be cracked. The same goes for robotics. As students experiment with designs and implementation, steel pieces need to be cut and sized to specific dimensions, sometimes even bent and broken intentionally. Gears might get stripped and motors might burn out, but for every success there is some failure, and parts are needed to keep the show running!
	Participation in the VEX robotics club helps promote to students how they can earn a high school diploma from Allen ISD with the recognized endorsement of Science,

<p>Which Allen ISD goals/TEKS does this project support? Please provide 2 or 3 examples.</p>	<p>Technology, Engineering and Math (STEM). This leads students to consider taking robotics related courses in high school (i.e. Engineering Design, Manufacturing Robotics, Applied Engineering, and Scientific Research) Also, participation in VEX robotics helps to meet the criteria set forth in Texas Education Code (Chapter 130 of the Texas Essential Knowledge and Skills framework under Career and Technical Education -TA1STC - Investigating Careers in STEM) allowing students to consider the possibility of pursuing a career in robotics or technology related field.</p>
<p>What specific measurements will be used to evaluate the effectiveness of the project?</p>	<p>We want students to have fun, be engaged, and to look forward to facing today's challenges tomorrow with new tools, new answers, and new discoveries! Building, coding, and testing robots is wholly project-based learning with dynamic interactions of peers. As with any type of technology from the simplest eraser to machines that can build islands, the idea is to use technology to solve a problem. If the concept or prototype does not address a solution to a given problem, teams must re-evaluate their methods and adjust their course to achieve a meaningful outcome.</p>
<p>What teaching methods will be used to implement this project?</p>	<p>As a facilitator, I will guide students through the engineering design process, how to use available resources, conservation of materials, and on a more relevant level, teach the social and emotional aspect of working for extended periods of times with different people with various backgrounds.</p>
<p>What is the project timeline and the date of implementation?</p>	<p>VEX robotics is a full year commitment for the 24 students that would be involved. Immediate use in the classroom upon being awarded the grant (2020-2021 school year) will ensure competition dates are secure giving us specific target dates to meet design and challenge requirements.</p>
	<p>Taken in part from AISD's belief statements... We believe every child deserves the highest quality education... ...through a class or a club. The nature of our public schools is to provide a free and quality education to every student. In offering the VEX robotics club to our students, we are affording them a learning</p>

Explain how this idea or project enhances/supports Allen ISD curriculum or existing systems.

opportunity to explore in depth what their techy-interests might lead to. In order for that opportunity to be of the highest quality, the program must be prepared to meet the demand of physical assets. Metaphorically speaking, a potter without clay is just spinning his wheel...and getting nowhere. We believe the development of citizenship in all students is essential to a complete education... ..and that begins with team building and accountability. VEX robotics club is indeed a community of learners gathering together to discuss similar interests and coming together to solve a problem. The sharing of ideas, the respect of listening and providing constructive criticism, and the ability to tolerate mistakes and learn from them makes for great citizens in all our students. To be sure, VEX robotics is not just an excuse to stay after school and hang around with friends. Through a rich learning environment and a supportive attitude, students will be part of something that is larger than any one person, but not possible without the contributions of each through his or her time, talent, and potential.

Total Grant Budget Requested:

1531

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Project Budget Set Number 1

Question	Answer
Item Type	General Supplies
List item to be purchased under item category:	VEX Robotics Parts - Various
Unit Cost	1531
Quantity	49
Total cost of items in this category:	1531