



## Foundation For Allen Schools Grant Application 2021

**Scholarship Fund Amount: \$0**

**Let's get to know you!**

Please provide your work-related Twitter contact information.	
Please provide your work-related Facebook contact information.	
I have co-applicants:	No
Best phone number to reach you at:	+14695693421
Campus	Ereckson Middle School
Grade(s)	7;8;9;10;11;12

### Additional Co-Applicants

Campus	Ereckson Middle School
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### Project Information

Are there any additional funds available for this grant?	No
Will other grades be involved/impacted?	Yes
Will other campuses be involved/impacted?	Yes
Does your grant have a technology component?	No
Please select the MAIN curriculum area your grant addresses.	Science / STEAM
How many students will be involved in this	

grant?	40
Name of Grant	VEX Robotics Competition Event Host

**Project Information Continued**

<p>Provide a brief summary for use on the Foundation's website and social media.</p>	<p>Although robots are all around us, they are surely not taken over! Our Robotics students are ready to show-case their knowledge and skills in this STEM field ensuring that technology is our friend. Our VEX Robotics competition will demonstrate how humans and machines can work together.</p>
<p>How will the project or program be implemented? Describe activities and tasks. Who is the target population and in what ways will they benefit?</p>	<p>Starting with our current group of VEX Robotics club members, we will begin by completing this year's VEX Challenge in-house and scrimmage each other at the end of April 2021. Incoming 6th grade students and new students to the district will be invited to participate in next year's club via an application/interview process. Students that age-out of middle school that did not have an opportunity to participate in competition this year (2020-2021) will be invited to help judge and coordinate with other community volunteers for competitions in the upcoming 2021-2022 school year. Current students in the program will NOT have to re-interview and are automatically invited to return next year!</p>
<p>What is the problem, need or opportunity that</p>	<p>The year 2020 presented very unique and harsh challenges for all to overcome. The impacts of shut-downs and quarantine affected young and old alike and across many professions. Regarding students, participation in extracurricular activities had to be revamped with social distancing protocols while keeping the health and safety of all at the forefront of everyone's minds. School, whether virtual or in-person, was very much needed and resumed to help student growth not get stunted. Slowly and surely, steps were adopted to ensure learning atmospheres continued regardless of circumstances. Athletic events, student clubs, classrooms, they all looked different, but the opportunities to learn (and play) were again available. Robotics clubs and events had to adapt as well. At Ereckson Middle School, VEX</p>

<p>this grant will address? Describe the impact of this project on your students.</p>	<p>Robotics club continued making it possible for both at-home and in-person learners to participate. Zoom sessions were created so that students at-home could participate with in-person students learning to build robots and code. Our goal was to participate in VEX sponsored events, but with Covid, that all changed. The understatement of the year would be to say students were disappointed in many ways, including not being able to participate in robotics events around our region. The purpose of this grant is to secure funding to procure equipment needed to host VEX Robotics events in-district. Students, parents, and our community will have a local opportunity to participate in local competitions, scrimmages, and skills-only challenges and continue the STEM related learning environment in a safe, secure, and engaging way.</p>
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<p>Which Allen ISD goals/TEKS does this project support? Please provide 2 examples.</p>	<p>Adapted from the Allen ISD Belief Statements: We believe the development of citizenship in all students is essential to a complete education... .. By providing a local event opportunity we are helping to develop citizenship traits in our students by inviting former students to participate as an MC, mentor, judge, or event manager. Regarding our current students, a local event will further promote healthy competitive attitudes, good sportsmanship, and team work. We are responsible for building upon the sense of community we have inherited... ..Building community has never been more relevant! Not only will students be able to continue their relationship with Ereckson Middle School after they leave, but parents and other supporters of our students and schools will be able to play an important role in supporting the STEM community by serving as a judge or event manager (some parents might even serve as MC or mentor).</p>
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	<p>Participation in the VEX Robotics club helps promote how students can earn an Allen ISD high school diploma with the recognized endorsement of Science, Technology, Engineering and Math (STEM). This leads students to consider taking robotics related courses in high school (i.e. Engineering</p>
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<p>Explain how this idea or project enhances/supports Allen ISD curriculum or existing systems.</p>	<p>Design, Manufacturing Robotics, Applied Engineering, and Scientific Research). Also, participation in VEX Robotics meets 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 a technology related field.</p>
<p>What is the project timeline and the date of implementation?</p>	<p>VEX Robotics functions on a 12-month calendar with the introduction of next year's challenge in late April and concluding with the VEX Robotics World Championship (hosted in Dallas 2021) in late April. Students involved in the club will begin their research over the summer in order to jump into action upon returning to school in August. Prompt start-up will ensure competition dates are secure giving us specific target dates to meet design and challenge requirements.</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 specific measurements will be used to evaluate the effectiveness of the project?</p>	<p>The overall outcome this project will provide is priceless and invaluable experience that will encourage students to look beyond their own capabilities and challenge themselves to improve, inspire, and innovate through a larger platform. Participation from other campuses in Allen ISD and neighboring districts with VEX Robotics clubs/programs such as Lovejoy will be invited to compete in our event.</p>

**Project Budget**

<p>Total Grant Budget Requested:</p>	<p>2970.00</p>
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**Almost done!**

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### Project Budget Set Number 1

Question	Answer
Unit Cost	1774
Quantity	1
Item Type	General Supplies
List item to be purchased under item category:	Full Field & Game Element Kit
Total cost of items in this category:	1774.00

### Project Budget Set Number 2

Question	Answer
Item Type	General Supplies
List item to be purchased under item category:	Game Element Kits
Unit Cost	180
Quantity	2
Total cost of items in this category:	360.00

### Project Budget Set Number 3

Question	Answer
Item Type	General Supplies
List item to be purchased under item category:	On-field Robot Expansion Sizing Tool
Unit Cost	44
Quantity	2

Total cost of items in this category:

88.00

**Project Budget Set Number 4**

<b>Question</b>	<b>Answer</b>
Item Type	General Supplies
List item to be purchased under item category:	VEXNet Competition Switch
Unit Cost	20
Quantity	3
Total cost of items in this category:	60.00

**Project Budget Set Number 5**

<b>Question</b>	<b>Answer</b>
Item Type	General Supplies
List item to be purchased under item category:	VEXNet Field Controller Kit
Unit Cost	170
Quantity	3
Total cost of items in this category:	510.00

**Project Budget Set Number 6**

<b>Question</b>	<b>Answer</b>
Item Type	General Supplies
List item to be purchased under item category:	Competition Field Corner Bracket
Unit Cost	44
Quantity	2
Total cost of items in this category:	88.00

**Project Budget Set Number 7**

<b>Question</b>	<b>Answer</b>
Item Type	General Supplies
List item to be purchased under item category:	VEX Safety Glasses
Unit Cost	9
Quantity	10
Total cost of items in this category:	90.00