

Glassboro Education Foundation, Inc.

Send the completed application to the attention of:

Mr. Craig Stephenson
Beach Administration Building
Joseph L. Bowe Blvd
Glassboro, NJ 08028

A. General Information

Applicant(s): Lori McNeill

School: TEB

Principal: Lauren Kerr

Grade Level or Subject: 6th Information Technology and 7th Computer Applications

Phone: (school): 856-652-2700 (home): 856-535-1974

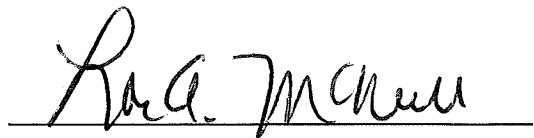
E-mail(s): lmcneill@gpsd.us

B. Statement of Assurances:

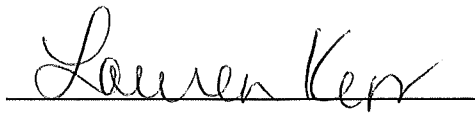
The applicant hereby assures the Glassboro Education Foundation that:

1. The applicant(s) meet(s) the eligibility criteria.
2. The activities and services for which the grant is sought will be implemented as written.
3. Any monies not expended within the school year shall revert back to the Glassboro Education Foundation, unless permission to carry it into the next school year is granted.
4. All publicity releases regarding a funded project will acknowledge the Glassboro Education Foundation and/or a particular mini-grant sponsor as the funding agency.
5. The grant recipient(s) will submit a final report summarizing the project's evaluation results.
6. The Board of Education authorizes the filing of this application.

We do hereby certify that all of the facts, figures and representations made in this application are true and correct to the best of our knowledge and that the assurances as stated above are understood and will be followed in their entirety.



Signature of Applicant



Signature of Principal

Please note: from this page on, please do not include your name or your school in any of your descriptions as all applications are coded to prevent bias.

C. Project Title and Description

Title of Project: Programming with Vex Robotics

Subject Area(s): Computer Science

Approximate Number of Students Participating: 100

Project Starting Date: April 2027 Project Completion Date: June 18, 2027

Need: Describe the problem or deficiencies that exist which require the improvements described.

~~All students need more experience in programming/coding. It teaches vital skills such as problem solving, logical thinking, and patience. Learning to code as a student involves much more than just creating or modifying programs for computers or games. The abilities you gain from learning to program/code can be used in many areas that have nothing to do with technology or screens.~~

Strategy: Briefly describe your plan to alleviate the need/problem.

~~I would like to order two Vex Robotics kits for my classes—working in a group, students will first learn how to build a Vex vehicle by following step by step directions. Secondly, using the Vex website, they will be working in a team to learn how to write code/program their vehicle to navigate through a maze/course that we will also design/create in class.~~

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D. Objectives, Activities and Evaluation Techniques (This page may be duplicated if necessary)

Objectives	Program Activities to Accomplish Objectives	Completion Date	Evaluation Techniques
Students will be able to explain and understand that programming uses ordered instructions and be able to create a basic VEX program that uses movement commands to make a robot/vehicle move forward, turn, and stop.	1. Students will work in small groups to successfully build a VEX robot/vehicle. 2. Students will be introduced to VEX coding/VEX website and will complete a series of basic lessons to learn the block-based coding/Scratch 3. Students will then create a program/code for their robot/vehicle to navigate a course/maze created by the students/teacher.	May/June 2027	Students will demonstrate their ability to build and program a VEX robot to complete a simple path containing a forward movement, a turn, and a stop. The robot must complete the path in the correct order, and students must explain how their command sequence controls the robot.

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E. Itemized Budget

Materials/Equipment		Services		Evaluation Techniques	
<u>Item(s)</u>	<u>Cost</u>	<u>Item(s)</u>	<u>Cost</u>	<u>Item(s)</u>	<u>Cost</u>
2-Vex IQ Education Kits	\$499.99 Each	Shipping	\$57.77	N/A	
<u>Sub-total:</u>	\$998.98	<u>Sub-total:</u>	\$57.77	<u>Sub-total:</u>	\$0
				<u>Grand Total</u>	<u>\$1057.75</u>