

# AIP GRANT APPLICATION COVER SHEET

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Date: December 18, 2022

## Contact Information

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 Year Incorporated: 2017  
 FEIN: 82-1953602

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Have you received grant money from the Chester County Community Foundation in the past?

Yes  No  Not Sure

## **Please indicate which of these AIP Fund priorities are embedded in your program:**

<input type="checkbox"/>	Alleviate hunger	<input type="checkbox"/>	Alleviate homelessness	<input type="checkbox"/>	Alleviate poverty
<input type="checkbox"/>	Physical well being	<input type="checkbox"/>	Emotional & mental well being	<input type="checkbox"/>	Social well being
<input checked="" type="checkbox"/>	Educate for social intelligence	<input checked="" type="checkbox"/>	Educate for academic success	<input type="checkbox"/>	
<input type="checkbox"/>	Mindfulness	<input checked="" type="checkbox"/>	Creativity & problem solving	<input type="checkbox"/>	

## **Mission:**

The mission of AGEF is to raise philanthropic support to expand and enhance educational opportunities and to create connections for the students in the Avon Grove School District. AGEF works to promote community involvement in public education by channeling donations from businesses, corporations, and individuals to provide an alternative source of funding for creative and innovative teaching and learning.

## **Geographic Area Served:**

Avon Grove School District - The District is located in a rural-suburban setting 34 miles southwest of Philadelphia, Pennsylvania, and 18 miles northwest of Wilmington, Delaware. Avon Grove covers 67 square miles and consists of five townships and two boroughs; they include New London Township, London Grove Township, London Britain Township, Penn Township, Franklin Township, Avondale Borough and West Grove Borough.

## **Describe the number & type of children/youth to be served by this program annually:**

The entire student populations of our K-8 schools benefit from their engagement with our high school's HACK Club Drone Team. Penn London Elementary School has 980 students, Avon Grove Intermediate School has 1422 students, and Fred S Engle Middle School has 826 students. While the exposure to the program will be broad, our experience shows with similar programs (eg: high school and middle school robotics demonstrations) that exposure to these types of technology programs at a younger age leads to increased participation in related programs in higher grades.

## **Resources:**

\$ 5000 How much grant funding do you seek from the AIP Fund?

\$ 8960 What is your overall budget for this program?

\$ 75,400 What is your overall budget for this year?

0 # of Full-Time Equivalent Paid Staff

18 # of Board Volunteers

0 # of Active Non-Board Volunteers

~1500 # of Volunteer Hours

**Top 3-5 funding sources:**

- Donations from corporations and nonprofit organizations
- Donations from individual community members
- Fundraising events

**Grant Amount Requested from the AIP Fund @ Community Foundation \$ 5000.00**

**Proposal Summary (3-5 sentences):**

The Avon Grove HACK Club Drone Team at Avon Grove High School is seeking to expand its school district-wide outreach to include all three AGSD schools which encompass the K-8 grades, in order to demonstrate fun, yet technical computer science-related activities for younger students. These programs serve as a fun educational experience for younger students, an opportunity for the older students to develop 'teaching' capabilities, and a natural recruitment tool to encourage later participation in the Drone Team as students move to the high school. The grant funding would be utilized to purchase the required peripherals (drone travel cases, drone controllers, iPads and iPad covers) that would be necessary to expand the current drone programs to include activities at all three schools. This program expansion will only be possible with equipment that enables safe transport of the drones from school to school (cardboard boxes have been the mode of transport to this point) and provides for appropriate control devices (students have had to use personal smart phones as controllers to this point).

# AIP GRANT APPLICATION NARRATIVE

*Please describe briefly, 2 pages maximum.*

## **1-What are you trying to achieve with this program, and how does this resonate with your nonprofit's mission, other programs and track record?**

Since its inception five years ago, AGEF has sought to enable teachers to develop or expand programs which they would otherwise not be able to implement, either due to school district funding constraints, or simply timing constraints related to school district budgeting. AGEF has funded over thirty such programs across a variety of disciplines, though STEM has been a recurring area of request from teachers, and thus investment from AGEF. Examples include funding for the expansion of our Intermediate School's LEGO Robotics Club and the materials to implement a new 'Light and Sound' experiment unit for all second graders in AGSD. AGEF also funded the initial expansion of the AGHS Drone Team, which is now requesting this funding in order to further expand its educational influence throughout the school district. This program thus fits nicely into the funding of teacher grant requests which remains at the core of AGEF's activities.

Additionally, with the completion of the new Avon Grove High School this past summer, we expect there will be an increased number of STEM-related teacher grant requests coming to AGEF. For example, there is a 'Maker Space' in the new high school, designed to be a place students can take a hands-on approach to construction with a wide variety of tools, from 3D printing to laser cutting/etching. AGEF will likely be involved in the future build-out of this Maker Space.

## **2-How you will discern the impact and results of this program?**

In the short term, we will be able to monitor the number demonstrations the Drone Team are able to deliver. Within the last year there were two – one at Penn London Elementary, to which the response was such that it became the impetus for the Team's desire to expand the program, and one at AGEF's spring Artisan Market event.

In the longer term, we will be able to see the indirect effect on the school district's computer science program participation (Drone Team included) due in part to the outreach of the Drone Team with the students in the younger grades. The teacher sponsoring the Drone Team is developing a plan to significantly expand the computer science curriculum at AGHS, though this will require continued student demand for such classes (eg: virtual reality, artificial intelligence, cybersecurity), which is currently quite high.

## **3-Why is it important to fund this now?**

Broad expansion of the K-8 outreach program can begin in earnest once the materials requested in the proposal are in place. Until that point, the Drone Team will likely continue to operate their school district outreach on a more minimal schedule.