

**2022-23 ATT Full STEAM Ahead!
Member Project Summaries**

County	Organization Name	Name	Project Summary
Baker	Baker County Education Foundation	Providing Students an Egg-cellent View	The purpose of this project is to help students master 7th grade life science concepts related to reproduction. Students will participate in hands-on microscope labs where they will view and identify the different stages of mitosis and meiosis. Students will also hatch chicks in order to view and understand the role of genetics and environmental factors in the development of organisms.
Bay	Bay Education Foundation	Building Cybersecurity for Tomorrow Through Exploring CTE Today	The goal of this project is to increase interest in students in the areas of cybersecurity and information technology through engaging events that introduce students to exciting basic IT concepts such as developing web pages, exploring IT, and computer science opportunities through a fun and hands-on approach. To meet these objectives, we will create an opportunity for students to more intimately engage in a CTE learning experience through a series of STEM activities presented by FSU's ASCENT program. The format in which we administer these goals is through two day-long daylong workshops.
Bradford	Bradford County Education Foundation	Introducing the STEM Experience	This project introduces STEAM activities to Bradford Middle School 8th graders through two visits to the CADE in the Classroom program at the CADE Museum. Not only is this a great experience for the students, but it also inspires teachers to be more creative and hands-on with activities and to create a more stimulating learning environment for students. Expected outcomes are that students have an increased interest in STEAM careers after the project is completed, and an increase in science and reading test scores.
Brevard	Brevard Schools Foundation	Elevate Brevard	This project supports Elevate Brevard's objective of increasing CTE completion rates in the district by encouraging families to rally behind increasing tutoring attendance by students. The goal is to increase pass rates in Algebra, EOCs and FSAs, and increased graduation rates through interest and participating in district CTE programs. Elevate Brevard will also create a component within the tutoring sessions to inform and encourage younger students about the Bright Futures Program opportunity and how to gain access to the scholarship.
Broward	Broward Education Foundation	Three, Two, One: Getting Student Careers To Liftoff	The project purpose is to increase the number of students completing Fusion 360 Mechanical Design and Computer Aided Manufacturing certifications through hands on activities. The students will complete the projects using Computer Aided Design and Computer Aided Manufacturing software such as Fusion 360/Soildworks and then creating their designs on either a 3D printer, Laser Cutter, and CNC (Computer Numerical Control) Machines. The projects include Solid Fuel Rocket and Water Bottle Rockets. The students will see the benefits of Computer Aided Design as they apply to aerodynamics, mechanical and structural design. The students will have lessons to prepare them for each project so that they can bring their background knowledge and apply new knowledge to their designs.

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Clay	Clay County Education Foundation	Animation Station: STEAM in 3D	Students at one elementary school will be able to bring STEAM to life with the Animation Station kit. These Woz Ed Curriculum kits will allow students to engage in hands-on learning in a relatable, fun way. The Animation Level I Kit will introduce students to video editing and stop motion movie making through different software options. The Animation Level II Kit will introduce students to video editing through Stop Motion Studio. Students will deepen their understanding of animation using 3D animation tools provided by anim8:3D and Toontastic. Students will become producers, directors, and voice actors after creating a dancing 3D character and telling an original story with 3D animation. These final products will be enhanced by the skill of summarizing and critical thinking when comparing stop motion, 2D animation, and 3D animation.
Collier	Champions for Learning	STEAM Starters	This project will allow families to use the engineering design process to create STEAM challenges and bring authentic real-world applications of Science concepts to life in the classrooms and their own homes. We know that the future contains many STEAM related jobs and positions and introducing students to these concepts, allows them to begin to create a passion for STEAM. Throughout the year, students will be able to participate in a variety of STEAM challenges that they can create with their families at home. On the morning of STEAM Starters, families bring in their completed projects to put on display, then students are able to rotate through the media center and complete a variety of theme-related STEAM activities. Using the design process, students tap into their creative and critical thinking which expands to all subject-areas.
Escambia	Escambia County Public Schools Foundation	Our Future is Bright with Career and Technical Education	Career and Technical Educations, along with Bright Futures, are programs that directly impact student opportunities for job placement and college acceptance. Our goal is to expose fifth grade students to Career Academies that are available within our District and raise awareness of scholarships that are available through the Bright Futures program, especially for our low SES Students. We will have monthly STEAM activities that align to fifth grade standards while also highlighting career academies within our middle and high schools. The culmination of our program will be a mid-year Saturday Expo event where middle and high school career academies will share the exciting opportunities available within their programs. We will host this event mid-year to allow students exposure to their desired academies for school choice purposes. We want this event to also highlight Bright Futures scholarships and Take Stock in Education partnerships. The impact will be measured through course selection of our targeted students when entering the middle schools and will also include Parent/Student surveys.
Flagler	Flagler County Education Foundation	Tooling Up in a Digital World	The intent of the project is to prepare students for entry-level credentials to become proficient in their ability to utilize the Google Suite of productivity tools. Students will also explore the basics of understanding cybersecurity and web design, which will provide foundational skills for a transition into our new high school level course sequence. Students who are successful with these credentials will have a greater ability to work with their district provided technology in an efficient and appropriate manner to help expedite their learning.

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Franklin	Franklin Education Foundation	Certiably Yours	The purpose of this project is to continue to assist students in the Unmanned Vehicle, Welding, Building Trades and Culinary programs earn CAPE industry certifications. Student assistance comes in the form of activities such as guest instructors, tutoring and enrichment activities as well as providing incentives for students to do well. Outcomes to be measured will be the number of certifications attained by students in these program areas. A secondary goal of this project is to increase the number of certifications earned in 2022-23 by 10% or more over the certifications earned in 2021-22.
Lake	Education Foundation of Lake County	Enrichment Full STEAM Ahead	In the STEAM lab, we will complete hands-on activities to reinforce math and science standards as well as ELA speaking and listening standards. Through the Vivify STEM Mission to Moon activities, students will walk through a space mission, completing activities like designing a rocket, a lunar lander, and an apparatus for exploring the surface of foreign planets. Students complete these activities using items they can find at the store. Students will be monitored to determine their understanding of the engineering design process in addition to their understanding of math and science standards and collaboration skills.
Leon	Foundation for Leon County Schools	Putting the A in STEM	Putting the A in STEM is a project that will incorporate the digital arts into STEM subject areas. A STEM classroom approaches instruction in science, technology, engineering and mathematics, not as separate disciplines, but through an integrated and applied approach with real world application. Wixie is the perfect digital canvas for students in STEM classrooms and allows students to combine text, images, and voice narration to share design ideas, explain their thinking, and share real world solutions. It provides powerful tools to create projects that combine text, voice, and video with original art and images, encouraging critical thinking and building creativity and communication skills. Students will complete activities in: digital books, painting, animations, digital worksheets, and comics.
Martin	Education Foundation of Martin County	ConnectED Science	The purpose of this project is to provide 5th grade students with an opportunity to do hands-on activities centered on the 3rd, 4th, and 5th grade science standards tested on the annual Florida Standards Science Assessment. Students will engage with a scientist while using science supplies in their own mini-lab. Our goal is a 10% increase in science proficiency and a close alignment of science scores to those on the assessment given for reading.
Okaloosa	Okaloosa Public Schools Foundation	To the Moon and Beyond: Growing our Future	The goal of this project is to help students and families become more engaged, excited and enthusiastic about STEAM projects. Our hope is that students and families take what they have learned from these activities and continue to engage with each other at home. In the past, we have low participation from parents and community members at our after-school events. Evening events can be difficult and/or inconvenient for our parents and caregivers. We are adding a STEAM field day and a two-day Moon event to our curriculum so all of students can be active participants. This project supports our Science Fair program and STEAM night for families and community members to be involved in student learning. We hope to create a more enriching Science Fair/STEAM night in order to encourage families and community members to be involved with the amazing STEAM activities students are involved with on campus.

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Osceola	Education Foundation for Osceola County	OBA Young Entrepreneur Success (YES)	Through the OBA Young Entrepreneur Success (YES), students will learn entrepreneurial basics, design thinking, and mold ideas into clear business plans. With an emphasis on personal development and academic rigor, our programming incorporates practical, hands-on experiences to help build 21st Century workforce skills and unleash the entrepreneurial spirit of innovation. At the same time, the student students have the opportunity for certification in Entrepreneurship and Small Business (ESB) credential, Master ESB credential, and related credentials of value, such as QuickBooks, Microsoft Office and Adobe Publisher.
Polk	Polk Education Foundation	All "Hands-On" Deck for STEAM Learning!	The purpose of our project is to provide hands-on experiences in the STEaM content areas to students who are academically in our lowest 25%. By providing these engaging, fun, STEaM focused activities that are also based on specific content areas in which students need additional practice, we hope to help bridge the academic gap and boost confidence in these students. In our 1st and 2nd grade classes, students will participate in weekly differentiated centers using BeeBots. In 3rd & 4th grade, students will participate in STEaM centers using Lego WeDo kits and STEaM Challenge task cards. Our hope in providing these experiences is to give our students repetitive and various ways of learning and mastering the content. We also want students to have multiple opportunities to practice important skills such as critical thinking and observance.
Santa Rosa	Santa Rosa Education Foundation	Transporting Through Time: The Hovercraft Project	The purpose of the project is to engage 5th and 6th grade students that are performing lower than their peers in math and science as measured by the third progress monitoring assessment for the 2022-23 school year. During the one-day camp, students will work together to design, build, and test a real-life hovercraft! Using a project-based learning framework, students will analyze, problem-solve, learn how to operate as a team, experience conflict resolution, and apply standards in math and science. Students' learning growth on a number of Florida math and science standards will be measured using a pre- and post-survey.
St. Johns	Investing In Kids	Project Parenting	In Creekside's Future Teachers Academy, students explore the physical, cognitive, and social-emotional development across human lifespans. During the infancy unit, students practice how to care for an infant using a RealityWorks RealCare infant simulator. This is a hands-on way for students to demonstrate mastery of the standards by taking home the infant simulator to demonstrate how to help their infant thrive. Project Parenting provides students with experiential learning opportunities to share their experiences on different online platforms increasing awareness of what it means to be a parent. This course is required for students to successfully complete the New Teacher Academy which sets them up for success in future technical, community college and university teaching programs.

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Suwannee	Suwannee Foundation for Excellence in Education	Pineview Butter-fly-way	The purpose of this project is to leverage Digital Art and Outdoor Learning Labs as a means to increase student engagement and achievement in Mathematics, Science, or Language Arts. Volunteers are recruited to build a butterfly house and butterfly garden for Pineview Butter-fly-way. Students digitize the project with video and create a digital story book titled the Pineview Butter-fly-way. Using classroom library materials, the students' research and select which plants they want to grow to furnish both habitats. Students rotate through five different teams each designed to help improve core academic achievement. The project is geared toward students scoring Level II or lower in Science.
Volusia	Futures Foundation for Volusia County Schools	K5 STEM+D PD	This project serves two purposes. The first is to provide professional learning to teachers to understand the depth and rigor of what STEM really is. A professional learning day will include hands-on activities that dive into how students learn science. The second purpose is to assist teachers in creating lessons for elementary students in STEM applying what they have been learning in the classroom. Materials will be created and developed to be used in the classroom with the developed lessons. During these days teachers will collaborate on the lessons and the goal is to have several lessons for all to use and to publish for use by all K-5 teachers.