2016-17 AT&T STEM@Work Grants

	County	Organization Name	Project Title	Project Abstract
1	Alachua	The Education Foundation of Alachua County	MAKING IT HAPPEN	As part of a school-wide initiative to integrate science and engineering design processes into learning, we plan to create a MAKER SPACE where students will solve real-world problems through hands-on project-based learning activities. A MAKER SPACE is a place for children to research, build, and test solutions. MAKER SPACES have flexible seating for cooperative learning, a variety of design surfaces such a large dry erase walls, building materials and tools, computers and presentation projectors. In this initial project, engineers from EXACTECH would work with students to develop prototypes to answer the question, "How does an animal use its physical characteristics to survive in its habitat?" Students would use the design process to design and build a solution to a problem. After researching possible solutions, they would build and test a prototype that would solve the problem. Findings would be presented in live or video format. Other projects include designing a prosthetic trunk for an elephant and developing solutions to global problems such as "How can we clean up contaminants in natural waterways?" The MAKER SPACE would also serve as a tinker space for students to bring their own questions, create solutions through trial and error, and launch imaginations into overdrive.
2	Baker	Baker County Education Foundation	Using OSMO to Reach the COSMOs	The OSMO Kids program takes the students through the process of coding, working with tangrams, learning to spell and understand the meaning of cconomic terminology. After being taught basic business knowledge, the students will open their own mock pizzeria, which is included with the OSMO Computer Coding curriculum. They will be required to order supplies, make the pizzas, and sell for a profit. Each student will calculate the success of their business and make adjustments for greater profit. Students are introduced to the concepts of business computer literacy as it applies to supply, demand, and profitability. As a contribution to our OSMO Kids program, Mr. Jimmy Bennett in conjunction with the new proprietor of Bennett's Feed and Seed Store will make three visits to our STEM resource classroom. The topic of each visit is as follows: 1) the importance of computer literacy and the use of computer programs in the business world of today; 2) the importance of understanding supply and demand as it relates to a business and its association with profitability; 3) price points and its affect on the profit and success of a business. This will be supplementary to their mock Pizza Company.
3	Bay	Bay Education Foundation	Engineering a Career	Students will participate in an after-school workshop, "Engineering a Career," throughout the winter and spring. Applying real-world STEM skills and interacting with engineers/technicians, students will construct a "Simon Says" game. In addition to the STEM skills learned and applied, students will interact with professionals who are employed at a local firm and will learn about the many STEM careers available locally in the shipbuilding and defense industry.
4	Bradford	Bradford County Education Foundation	Adventures in the Classroom with LEGO Robotics	The goal of this project is to give elementary students from a low-income area an opportunity for hands-on learning of robotics activities. It is also anticipated that students will learn to use precise logical thinking, collect data to make decisions, analyze problems and build collaborative solutions. Utilization of LEGO robotics materials will ensure that students have an introduction to computational thinking that involves a diverse set of skills that includes problem solving , creativity, the ability to explain and to function as part of a team.
5	Broward	Broward Education Foundation	Greased Lightning Robotics - Let's ROLL: Robotics and Outreach for the Love of Learning	Let's ROLL will support hands-on robotics projects and competitions, expanding the number of students who can directly participate in the design and programming of robots while increasing the participation of girls. It will also provide student-led science outreach activities to elementary students. Expected outcomes include: increased student appreciation of the sciences as measured through pre- and post- survey of Attitudes and Belief's Toward Science and Engineering; increased participation of girls and Hispanics as seen through the tracking of demographic information and retention data; increased interest and engagement of younger students as reported by elementary and middle school teachers in relationship with high school student mentoring; and increased implementation of student-led projects including participation in robotics competitions. Let's ROLL will also increase STEM awareness at our school as students design mechanisms to aid students with disabilities that also attend the school. An example would be the creating of an attachment to allow the wheelchair students to push their own bowling ball. Through this work students will increase their knowledge of sensor oriented programming while meeting an important community need.
6	Broward	Broward Education Foundation	Landing Among the Stars	In the Western High School ocketry & Aerospace program, students conduct research in the field of Aerospace. They learn about NASA's space exploration plans which are essential in developing and testing new innovative advances in science and technology. This program provides hands-on, mentored experiences aligned with student academic pursuits in science and engineering. Students are challenge through participation in local and national competitions where they have to design, build, and test their own rocket while matching their ingenuity with the laws of physics. Through competitions, they are further motivated to study and work hard, putting in practice what learned in the classroom. Creative and critical thinking skills are stimulated, preparing them to become the next generation of scientist and engineers. These young engineers and entrepreneurs will be learning directly from professionals in the field. They will experience real life practices including technical reviews that mirror current criteria in NASA's engineering design lifecycle. During the process, they will be sharing their newly acquired knowledge, skills, and excitement for aerospace not just with the surrounding community through educational out-reach programs, but also with the whole world through web postings and instructional YouTube videos.

2016-17 AT&T STEM@Work Grants

	County	Organization Name	Project Title	Project Abstract
7	Charlotte	Charlotte Local Education Foundation	Full STEAM Ahead with 3D Printing	The objective for this project is to expose students to STEAM career related activities, while providing hands on engaging activities. They will investigate and explore various grade level specific science standards, while incorporating the arts, media, math, and other subjects. The students will seek solutions to real world problems. This project will maximize student learning and enable them to have a physical representation of the content being explored, rather than seeing only a visual representation on a screen or in print. Our project allows for the smooth integration of multiple subjects. Students will be able to solve real world problems in a creative and meaningful way. An interest in STEAM related careers will be fostered, as well as a love of learning.
8	Charlotte	Charlotte Local Education Foundation	STEM in Health and Wellness	This project connects STEM to the real world through physical movement, daily activity, and life- long fitness. Students will study STEM careers that relate to the health industry and learn to evaluate their own fitness levels. They will find ways to prevent chronic disease using research and data. Students will increase their interest in STEM by making it a part of their life.
9	Collier	Champions for Learning	"I need to put my finger on it"	This project, "I need to put my finger on it," gives students an inside look at STEM careers and the engineering process in the field of Biomedical engineering. The students will design and create a prosthetic finger or a fractured finger cast using a 3D printer & Autocad software to experience the procedures that companies such as Arthrex, the business partner, goes through when helping the medical needs of their clients. This project will utilize students' math skills giving them a deeper connection to the curriculum they learn and how it applies to the real world. It will also help them realize that they have the potential to expand themselves to higher order thinking to solve a problem. Besides the product they design and create, the desired outcome is to help students improve curriculum mastery in the subject of math and to motivate them to become interested in a STEM career which can open many opportunities for them in the future.
10	Flagler	Flagler County Education Foundation	BTMS Eagles are Biomass and Bioproduct Engineers	This project is an extension of a growing partnership with Penn State University, Penn State's Center for Science and the Schools, Ernst Seed Company and the Buddy Taylor Middle School STEM, Agriscience classes and 4H and FFA clubs. The purpose of this project is to educate our middle school students on the issues of sustainability, climate change and the amount of biomass needed to replace what it used in terms of fossil fuel consumption by creating an extremely concrete example that the students are a part of from the start of the project.In order to educate our students on the process involved in making bioproducts, we plan to purchase a pellet mill and hammer mill that further our students' understanding of what is done with the "waste" products when biodiesel and bioethanol are produced in this industry. The making of switch grass pellets will also allow our students to plan, create a marketing strategy and then sell their switch grass pellets, which are naturally, very moisture absorbent.
11	Glades	Glades Education Foundation	Step Up to Stem	This project involves community health partners and elementary school students. The community partners will work directly with the students focusing on problem solving and application of STEM technology, science, math, and health skills. Students will be integrating technology, science, health, and math into physical education by using uploadable pedometers and learning about moderate to vigorous physical activity. The connection of real-world relevance to classroom curriculum along with the technology of the pedometers will foster an active learning environment. Students, parents, administrators, and the teacher will be able to assess how the students are doing in class. Students will use data to help them foster a more active lifestyle. Students will understand how STEM careers help foster a better lifestyle and they will consider a possible future in a STEM field. Working with the community partners will help students understand what STEM is and the variety of STEM careers available to them in the future.
12	Glades	Glades Education Foundation	The Magic of 3-D Printing and Forensic Science	The Magic of 3-D Printing and Forensic Science will bring the "magic" of 3-D printing, the latest technology to impact forensics and the field of medicine to the classroom. Until recently, this technology was not universally available to students. Because it is available, we are partnering with Florida SouthWestern State College (FSW) and Florida Department of Law Enforcement(FDLE) to introduce students to its use. FSW and FDLE will provide students with speakers, tours of a forensics classes and labs and meetings with forensic instructor. Students will be able to interrelate the knowledge gained to this new technology. Students will be also be introduced to the requirements for a career involving 3-D technology such as forensics, crime scene investigation and possible medical arenas. Students will then apply the concepts of 3-D priming in the classroom by actually using a 3-D printer pre-loaded with STEM software. Additionally, students will be shown how the use of 3-D printing can become a profitable business.
13	Hernando	Hernando County Education Foundation	Bringing Back Butterflies	This project will increase student understanding of the interdependence of all living things and the fact that human actions and natural events can affect the balance of populations and environments. The project will involve students in the planning of a supportive native environment for butterflies and in problem solving as the students work together addressing sustainability and the qualitative and quantitative study of interdependence and the vulnerable balance that exists between living organisms. The project will allow students to collect and analyze data that will hopefully inform their decision-making and their awareness of the interdependence of living organisms from both a global and a local perspective. The project will allow students to methods and skills of communication, both scientific and social, as they present this awareness and understanding with the objective of building awareness and understanding in others.

2016-17 AT&T STEM@Work Grants

	County	Organization Name	Project Title	Project Abstract
14	Hillsborough	Hillsborough Education Foundation	STEM Fair	The Hillsborough County STEM Fair is the largest of its kind in the Southeast and showcases the leading student talent in STEM fields through students' STEM projects. Thousands of students compete to move on to state and national STEM Fair competitions. STEM business leaders judge students' projects to determine who advances to the next level of competition. The STEM Fair gives students the opportunity to demonstrate workplace skills by creating hands-on projects that focus on current STEM topics. The opportunities leading up to the culminating STEM Fair allow students and business partners to come together to share STEM ideas, interests, opportunities and careers, giving Hillsborough County students a diverse set of resources to explore STEM concepts.
15	Lake	Educational Foundation of Lake County	Engineering Our Future	Engineering Our Future is designed to connect students to STEM today and in the future by exposing them and engaging them in real world science. Fifth grade students will visit Lake Technical School to see and interact with recently graduated (and even dual enrolled current) Umatilla High School students in the various programs that all require some degree of math and science knowledge. This is a chance for 10 year olds to learn that being a hair stylist requires in-depth knowledge of the skin and muscles along with the ability to follow math formulas in preparing hair color products. Examples like this abound in medical programs like EMT, Firefighter/Paramedic, Practical Nursing, as well as in Refrigeration and Plumbing Certificate Programs, Automotive Engine diagnostics, etc. Then, local business owners in various fields will come into the classroom to have discussions with small groups of students and relate how they managed as students to stay focused and learn how to problem solve in order to become successful business owners.They will even be able to do some hands-on practice with models, such as an anatomy model of the human torso with removable parts, working small engine models, etc. All interactions with business people will be focused on utilizing the problem solving process to achieve success.
16	Lee	The Foundation for Lee County Public Schools, Inc.	Win a Tablet - STEM@Work Presentations	Students will participate in numerous, hands-on STEM@Work experiences at local businesses throughout the school year. Our goal is to expose students to STEM-related fields in order to build their awareness and offer local industry opportunities that develop talented students entering the workforce. In addition to individual surveys, students will work in groups outside of the STEM@Work experiences to develop a presentation to determine what they have learned, what interested them the most, what new interests resulted from their involvement in this program, and what they plan to do with this knowledge and interest in their immediate future (i.e. classes, internships, college or technical program research, etc.). Students will give their presentations at our STEM@Work Wrap-up where they will be judged by their peers, teachers and administrators, and our STEM@Work Business Partners. Each member of the winning group will receive a laptop, a device offering technology on-the-go and incentive to put their best effort into creating and delivering their presentations.
17	Leon	Foundation for Leon County Schools	BOTS (Builders of Technology Systems)	The goal of the BOTS (Builders of Technology Systems) project is to address the needs of high level (gifted) learners and many other students who demonstrate a high interest and aptitude in science and technology. Students will learn and explore how to create robotic systems and how to program/code with instruction from teachers who are trained using the Lego Wedo 2.0 curriculum and materials. More importantly, students will be given open-ended learning experiences that allow them to use their creativity and critical thinking skills to work on finding solutions to some real-world kinds of problems. The projects are as follows: pull robot/dolphin, race car/rover, earthquake/dino, frog/gorilla, flower/crane, floodgate/fish, helicopter/spider, recycling truck/garbage truck, robotic arm/snake, caterpillar/mantis, alarm device/bridge, fork lift/snow plow, sea cleaner/floor sweeper, measurer/detector, firefly/joystick. Because the regular math and science curriculum is rigorous and full of important fundamental objectives, there is not always enough time to work on projects such as designing, building, and programming robotic systems. Students who are interested science and engineering often need to find these opportunities outside of the school environment. This project will offer these kinds of activities in weekly after-school clubs for grades 2-4 and in gifted classrooms. There will be 3 grade- level clubs offered in the fall and the spring. The proposed curriculum provides evaluation tools for the students to do self-assessments and evaluation tools that allow teacher to record student progress. There are also tools to help students give presentations.
18	Manatee	Manatee Education Foundation	Build a pi3, Create a Learner	Build a pi3, Create a Learner offers a vital learning opportunity for 160 middle school students, providing a clear picture of a future STEM career, while harnessing their creativity, empathy, and out-of-box thinking needed to solve real-world problems. This student-led project was conceived after researching that a zero power supply system could potentially provide adequate, accessible, and free power to a third world country. To this effort, with donated goods, students are designing, building, and powering raspberry pi3s, which are small and affordable computers used for programming. With AT&T STEM@Work's support, solar technology will be incorporated to provide stand-alone energy for batteries, etc. At the end of the school year, several students are planning to travel to Guatemala, along with the business partner Kids Inspire Kids/Dos Hermanas Escuelas, to teach the students and teachers of their sister school how to build, maintain, and implement the equipment. Through Build a pi3, Create a Learner, students will learn how to adapt technology to provide access to power that is adequate, accessible, and free to a rural area.

2016-17 AT&T STEM@Work Grants

	County	Organization Name	Project Title	Project Abstract
19	Manatee	Manatee Education Foundation	Growing for the Future	Through the Growing for the Future Program, middle school students will explore hydroponic food production methods effective in urban environments to increase the availability of safe, affordable food as well as help offset "food deserts" in low socio-economic areas. Middle school students will participate in hands-on learning during daily agriculture classes as well as after school during National FFA® Career and Technical Student Organization activities. Students will learn the application of scientific and technological principles regarding agriscience issues as well as increase their knowledge of the environmental resources necessary for agriculture production and related conservation practices. Lastly, students will demonstrate best business practices through business enterprise. Gamble Creek Farms will serve as the lead business partner along with a number of local industry partners from growers to the Chiles Restaurant Group to the University of Florida's Institute of Food and Agricultural Sciences (UF/IFAS). Students will benefit from guest speakers, mentoring, and cross curricular activities that will add a real-life slant to in-class activities. Through this program, it is expected that students will become knowledgeable of the connection between STEM skills and agriculture, and consider a future career in STEM.
20	Manatee	Manatee Education Foundation	Laser Engraving on the Curve!	Through Laser Engraving on the Curve!, students will explore manufacturing engineering through state-of-the-art learning opportunities integrating math, science and technology that will prepare them for post-secondary education and work in the fields of Engineering and Manufacturing. High school students will be engaged in the manufacturing process and mastery of a universal laser engraver equipped with a rotary attachment. Incorporating business entrepreneurship, students will distinguish between the principals of mass and custom manufacturing production as they design and engrave stainless steel tumblers as a school fundraiser. The program will first focus on basic 2D laser printing with an emphasis on laser marketing. Students will then be trained on the proper use of the rotary attachment. They will also master CorelDraw and Adobe Illustrator. Through the business partner, RCH Enterprises, LLC, students will learn about the custom fabrication of promotional products, including: time management, budgeting, and design. The business partner will also speak to its shop culture of promoting safety first in an injury-free environment. RCH Enterprises, LLC, will spend at least 20 hours of time through the grant cycle working with students during technology education classes and/or after school with the school's award-winning Technology Student Association (TSA).
21	Marion	Public Education Foundation of Marion County	Growing the Future- a 21st Century Community Garden	The goal of the school garden is threefold: to establish a garden space that can be used for teaching in multiple disciplines; teach students how to budget and construct a vertical tower hydroponics system that they can set up in a limited space; and teach the benefits of home gardening for a healthier lifestyle. The vertical column aquaponics system will teach students the benefits of gardening in vertical growing columns for a sustainable lifestyle with a smaller ecological footprint. Most of our immediate community is single- family homes or apartments and while some families would like to grow fresh produce, the available space makes it almost impossible. This grant will enable us to lead students through the entire plan from purchase to implementation. They will then be able to demonstrate to their families the cost benefits of having even one or two vertical growing columns at home thus helping to combat both childhood and adult obesity by making fresh fruits and vegetables readily available to our immediate community. The project will allow the establishment a functional after school program arranged around STEM projects for students such as hydroponic gardening, engineering challenges, vocational training and science education.
22	Okaloosa	Okaloosa Public Schools Foundation, Inc	Enhancing Life through Product Design	Students will work in teams of 3-4 using Lean Six Sigma concepts of team building and process improvement. They will develop a product or improve on one that improves everyday human life. The ideas for products that my students will come up with can be improved prosthetics for amputees, enhanced safety features on vehicles, and/or home improvement concepts. The product will serve a purpose to improve everyday life.
23	Palm Beach	Education Foundation of Palm Beach County	Elementary Students Learn About STEM Careers Through a Mission to Mars	Under the watchful eye of STEM career professionals and teachers, Kindergarten through 5th grade elementary students will create a Mission to Mars while high school students animate the process into a video. The video will highlight the students carrying out the Engineering process, Earth in Space and Time benchmarks and Math benchmarks. Elementary students will use I-pads to research and create their own i-movies depicting their work. High school students will be learning their own Art benchmarks while relating them to cross- curricular STEM elementary benchmarks along with the video creation. Using engineering design methods, students will tackle ideas of force and motion, survival, basic needs, radiation, energy transfer, matter, and food and water production in a hostile environment to build a Mission to Mars project. Using ideas and processes relayed to them by STEM career professionals, students will design and build projects that will add to the complete Mission to Mars K-5 project.
24	Pasco	Pasco Education Foundation	FIRST Robotics Competition(FRC) Team	First Robotics Competition is the premier STEM competition for high school students. It is well known for its ability to bring together schools and industry sponsors in a challenging engineering competition. Students learn to build and program a human sized robot to complete a given task, announced in January of every year. They then compete against thousands of teams from around the country and the world. Mentors from local technology companies mentor the students through this process, providing guidance and direction. The team was successful in the 2016 FRC Competition, winning the Rookie Inspiration award at the Orlando Regional, Rookie All-Star at South Florida, and advanced to the Division Semi-Finals in World Championship Playoffs.

2016-17 AT&T STEM@Work Grants

	County	Organization Name	Project Title	Project Abstract
25	Pinellas	Pinellas Education Foundation	Next Generation Tech (NGT)	The purpose of this program is to bridge the gap that exists between the education and the business worlds. Unique in its emphasis on the software development framework, the program exposes students to project management, business analysis, design, architecture and the diverse career opportunities within the technology industry. Students engage in project based learning focusing on solutions and real word challenges while being taught by seasoned professionals. Students and their teachers learn what being a part of the technology world all is about. Through the involvement of business community mentors, this program allows Tampa's Technology leadership to inspire the next generation by sharing real world experience and fostering young talent to stretch beyond programming. This is a seven month team competition (3-5 students per team). Teams apply online by submitting a charter identifying their problem/opportunity, targeted customer(s) and project specifics. It is open to any student attending a Pinellas County Public High School. All team documentation, presentations etc. are kept on the Basecamp project management tool provided. Teams are required to show all their work and findings.
26	Polk	Polk Education Foundation	Amphibians, Reptiles and Birds, Oh My! - Priority 2	"Amphibians, Reptiles, and Birds, Oh My!" is an innovative project that will transform first grade students into wildlife biologists who can speak knowledgeably about native Florida species and how they benefit our environment. The objective of this project is to classify, catalogue and conserve native Florida species on campus, and will be accomplished through partnership with Kleinfelder, a science and engineering consulting firm that is committed to growing the next generation of STEM professionals.
27	Polk	Polk Education Foundation	Project Fab Year 1- Engineering for Agriculture -Priority 1	Winston Academy of Engineering will implement an intermediate elementary school Fabrication Lab. This venture will introduce fabrication curriculum to elementary students. The focus of this project will be creating on site chicken coop(s) facility that will house chickens hatched by students in the STEM units in primary grades. Students will actively engage in the engineering inquiry cycle to collectively work as a class-oriented community of learners to complete an engineering task that begins with incubation of eggs to building a chicken coup to house adult chickens that will be laying eggs. They will consider environmental, budgetary, aesthetic and design constraints to plan, digitally design, fabricate and assemble the project.
28	Sarasota	Education Foundation of Sarasota County	STEM Summit: Envisioning the Future	The STEM Summit is an exceptional opportunity for Sarasota County students to explore, develop, and demonstrate their talents in a dozen different categories of science, plus engineering, math and technology. Last year our students presented over 200 projects. Many earned well-deserved recognition and awards, including international awards at the Intel and Google Fairs. As STEM industries grow, it is more important than ever to ensure a workforce that can meet the demands of the new economy. Inspiring a love of these fields ensures that students crave lifelong learning, which leads to greater entrepreneurial opportunities, stemming from the bond of encouragement from community members, business mentors, and educators.
29	Seminole	Foundation for Seminole County Public Schools	STEM today, Innovations Tomorrow	Technology based industries are challenged today with integrating employee teams due to varying technical backgrounds of their employees. This experience will help cultivate innovators of tomorrow who can work together as a team. Lyman Engineering students will be working on multi-disciplinary projects of the do-it-yourself type, which will develop safety, tool use, mechanical, electrical, aero, software, and mechatronics skills.
30	St. Johns	Investing in Kids (INK)	Project Green	Students enrolled in engineering academies are training to become engineers, anda through this project we would like to ensure they are knowledgeable and consider all “green” aspects to any project they undertake, resulting in a positive impact on our environment. Students will work in teams of 3 – 6 to learn to work as a team as they research, design and construct/implement their project, identify an environmental issue that should be addressed, research current strategies to resolve that issue, design a new solution to have a better impact on that issue, utilize engineering or processing skills to provide a drawing, report and/or 3D model to showcase how the issue can be addressed, and improve public speaking skills as they compete to convince engineering related business partners of the viability and cost-effectiveness of their project proposal.
31	St. Lucie	St. Lucie County Education Foundation	Precision Agricultural Drone Program	This drone project in coordination with precision agriculture and the culinary kitchen will afford an opportunity to students who would never have exposure to working with drones. Students will become technologically proficient in the construction, programming, operating and evaluating of data and information from unmanned aircraft, in order to make the correct decisions pertaining to the successful harvest of the crops planted in the land “surveyed”. This will support the “Farm to Fly” program developed by the Treasure Coast Education Research Development Park Authority (aka: Treasure Coast Research Park).

2016-17 AT&T STEM@Work Grants

	County	Organization Name	Project Title	Project Abstract
32	Sumter	Sumter Schools Enhancement Foundation	Techno Logic	Students will be given a chance to demonstrate their construction and programming skills in a physical, hands-on environment through the use of Lego EV3 Robots. Building and programming the robots involves teamwork and develops problem solving and math skills. Additionally the robots will be incorporated into our science classes where students will experiment with the robots' ability to sense colors, light, temperature, sound and motion as well as the data logging features and the ability to be controlled and monitored through Wi-Fi and Bluetooth technology. Schools will be holding a monthly challenge day where classes compete against each other to complete a STEM challenge. South Sumter Middle School has implemented a STEM course for 6-8th graders for the 2016-2017 school year. We are also part of the First Lego League for the first time. We will use these funds to buy robots, pay for competition fees, student supplies and transportation and travel costs. Robotics teams practice after school working on our programming skills and preparing for the Lego League competitions. The robotics team and STEM students will also participate in “E Week” at Lockheed Martin.
33	Taylor	Taylor County Education Foundation	Engineering Robots	Taylor County High School is pleased to partner with AT&T and Georgia Pacific to bring engineering alive in the classroom. Students enrolled in Chemistry at Taylor County High School will spend their Fridays during the spring semester studying engineering principles and designing projects. Students will be following the engineering cycle to learn the process and to understand engineering principals as they apply to robotics. Engineers from our local Georgia Pacific plant will be available to teach lessons and to serve as mentors to students interested in engineering careers. As students advance through the curriculum each class will complete a MOSS robotics kit. Engineers will help with this process and offer advice to students on engineering design.
34	Washington	Florida Panhandle Technical College Foundation	STEM in Space	This project will increase middle students' interest in STEM careers and educational programs that lead to STEM aviation and aerospace careers. Through the innovative learning activities provided by Team America Rocketry Challenge Program, students will be engaged in educational and hands-on experiences to help them learn science, technology, engineering and math concepts. Through the activities of designing, building and lauching model rockets, science and math and engineering will "come to life."