

# Student Programs



## WHAT

Over the past 10 years, the Fort Meade Alliance's (FMA) student programs have provided more than 5,000 students with hands-on exposure to STEM-related career opportunities from several prominent businesses, federal agencies and colleges in the region. These programs draw students from across the state, including those from Baltimore City and Anne Arundel, Baltimore, Carroll, Harford, Howard and Prince George's Counties.

### **Tech Mania**

Tech Mania is a half-day program provided twice per year for local 9th grade students that connects them to professional leaders engaged in work that supports the missions of Fort Meade. The day builds excitement for STEM-related careers by engaging professionals to demonstrate real world applications of mathematics, computer science, engineering and information technology. Held on-site at locations throughout central Maryland, students attend five separate hands-on sessions that showcase applications of STEM concepts, including technology being designed, created and built right in their own backyard. Presented by members and key partners of the Fort Meade Alliance, Tech Mania gives students the opportunity to experience exciting and innovative technology being utilized to solve complex problems.



### **STEM Family Night**

Recognizing the need to spark interest in STEM in younger students and their parents, the FMA developed STEM Family Night. An evening of exploration for elementary and middle schoolers, this event showcases cutting-edge technology in hands-on demonstrations provided by local companies and organizations. With representatives from local school systems in attendance, parents and students can also learn more about opportunities to engage in STEM-focused programs and curriculum hosted by their school.



### **PAST PRESENTATION TOPICS INCLUDE:**

- ★ *Augmented Reality*
- ★ *AV and Security Technologies*
- ★ *Chemical Reactions*
- ★ *Coding*
- ★ *Criminology*
- ★ *Cyber Security*
- ★ *Digital Media Exploitation*
- ★ *Drones*
- ★ *Electricity*
- ★ *Encryption Methods*
- ★ *Financial Wellness*
- ★ *Medical Procedures*
- ★ *Space Exploration*
- ★ *Thermal Imaging and Energy Transfer*
- ★ *Virtual Reality*
- ★ *Wi-Fi Technologies*



## **PAST PRESENTERS AND PARTNERS INCLUDE:**

- ★ Anne Arundel Community College
- ★ Anne Arundel Medical Center
- ★ BB&T
- ★ Booz Allen Hamilton
- ★ Bridges Consulting
- ★ Defense Information Systems Agency
- ★ Defense Media Activity
- ★ Community College of Baltimore County
- ★ Learning Undefeated
- ★ Leidos
- ★ LG-Tek
- ★ Lockheed Martin Corporation
- ★ Northrop Grumman Corporation
- ★ NSA K-12
- ★ Praxis Engineering
- ★ Towson University
- ★ Vision Technologies
- ★ The Whiting-Turner Contracting Company

## **WHY**

Providing students hands-on learning experiences reinforces the value of their STEM education, sparks interest and provides motivation for continued study. Engaging more students in STEM education at a young age will increase the number of candidates entering the workforce with these valuable skills down the line. Maryland has more than 20,000 open positions just in cybersecurity, making it clear that demand far outweighs supply when it comes to candidates who have the skills needed to fill these positions.

Help us build the pipeline of future workers to industry jobs in Maryland by supporting Tech Mania and other FMA initiatives.

## **HOW YOU CAN HELP**

- ★ Sign up to offer a presentation.
- ★ Provide a donation to our Education and Workforce fund that will help us expand delivery of these programs and others to more students in the region.



For more information about the Fort Meade Alliance Foundation, visit [www.ftmeadealliancefoundation.org](http://www.ftmeadealliancefoundation.org) or call 410.850.4940.