



## TJ Partnership Fund STEM Outreach Grant Report *2018-2019 Initiatives and Statistics*

This year, the TJ Partnership Fund provided **15** grants supporting STEM Outreach education in the local community. Grant funds benefited students at numerous Title I schools, schools with high poverty rates, high mobility rates, and high minority populations. In the Fiscal Year 2019 (FY19), the TJ Partnership Fund approved a total of **\$180,074.42** in STEM Outreach grant funds.

**STEM Mayhem:** A STEM outreach organization run by TJ students that aims to inspire elementary school students across Fairfax County to pursue STEM through hands-on activities and events such as STEM nights, STEM fairs, and after school clubs.

- FY19 Project Impact
  - STEM Mayhem shared their passion for STEM with **1,948 students** from **10 elementary schools**.



**Thinkabit Lab:** Located at the Virginia Tech campus in Falls Church, the Thinkabit Lab offers students the chance to participate in hands-on STEM activities and exposes students to a variety of STEM careers.

- FY19 Project Impact
  - PF grant funds provided transportation for **753 students** from **23 schools**, primarily Title I, to attend field trips to the Thinkabit Lab.

“My favorite part of the field trip was when they told us about engineering jobs. I want to become a mechanical engineer when I grow up because of you!” – Samrout, FCPS student and **“future mechanical engineer”**

**Potomac River Program:** A program that offers field trips to the Chesapeake Bay Foundation’s Potomac River Program, where students are provided an on-the-water experience of the river and hands-on water science knowledge.

- FY19 Project Impact
  - PF grant funds provided transportation for **300 students** from **7 schools**, primarily Title I, to attend the Potomac River Program.



**HackTJ:** An annual 24-hour Hackathon run by TJHSST that challenges high school students to learn how to code and bring their ideas to life in the form of an app, website, or other software.

- FY19 Project Impact
  - **Over 500 students** from across the region along with **40 FCPS teachers**, business representatives, and community members, participated in the 7<sup>th</sup> annual HackTJ.



**Magic of Mothers (MOM) STEM Fest:** An annual event that offers hands on experiments and challenges for local students.

- FY19 Project Impact
  - **Over 300 students** from **70 schools** participated in STEM Fest.

“Through the collaborative efforts of Magic of Mothers, STEM Fest participants and contributors share their knowledge with the hope of sparking a lifelong interest in building valuable STEM skills.”

– Dan Storck, Mount Vernon District Supervisor

**Planetarium Visits:** Since the 2018-2019 school year, the TJHSST Planetarium has provided educational programming to FCPS students and teachers.

- FY19 Project Impact
  - PF grant funds allowed programming to expand from 700 to **2,000 students** per year.
  - Students came from a total of **7 schools**, all classified as Title I.

**Techstravaganza:** An annual STEM activity fair hosted by TJ student group, Tomorrow’s Women in Science and Technology (TWIST), that includes over 50 different hands-on experiments for families to engage in.

- FY19 Project Impact
  - The 2019 event had **approximately 4,500 visitors**, including students from **over 310 different schools**.
  - PF grant funds provided lab materials, food, additional transportation, and more for the event.



**Herndon Elementary School:** PF grant funds provided academic and after school programs for lower income families and families of historically underrepresented backgrounds. These programs include Science Senioritas and Boys Science Club, Young Scholars Afterschool Program, and a year long academic program known as the Multi Modal Library Learning Space.

➤ FY19 Project Impact

- Science Senioritas and Boys Science Club
  - **26 2<sup>nd</sup> grade** and **26 3<sup>rd</sup> grade** students participated in this afterschool club for 5 weeks.
- Young Scholars Afterschool Program
  - **60 students** participated in afterschool programming centered on how to make Herndon a more sustainable place to live.
- Multi Modal Library Learning space- year long program except 6<sup>th</sup> graders of all Herndon ES students
  - **800 students** at Herndon Elementary were able to access this space, where they completed Maker-centered, curriculum integrated projects.



“The attendance rate for Science Senioritas and Boys Club was nearly 100% thanks to the TJ grant which provided transportation for our students. **Transportation is almost always an inhibiting factor** for students participating in afterschool programming.” – Jackie Kwon, Advanced Academic Resources Teacher, Herndon Elementary



“It was really fun. I learned new ways to code and I loved my group, and it was a great way to express yourself!” – Ada, Herndon Elementary School Student

**Science from Scientists:** Scientists with advanced STEM degrees facilitated a 5-day hands-on STEM program with students underrepresented in STEM fields.

➤ FY19 Project Impact

- PF grant funds benefited **32 4<sup>th</sup> & 5<sup>th</sup> grade students** at Braddock Elementary School.

“It was clear to us that these students are clearly in love with learning thanks to an incredible school community that supported and challenged them all throughout the school year.” – Amanda Schutt, Chief Operating Officer, Science from Scientists

