



Arlington Education Foundation Technology Initiative

This fundraising effort accelerated the implementation of technology in the Arlington Public Schools in order to prepare students for careers in STEAM - Science, Technology, Engineering, Arts and Mathematics. In partnership with the school department, AEF brought significant new capacities to all educational levels, from state-of-the-art facilities and equipment to teacher training and curriculum development. As a result, Arlington students have the technology skills and resources they need for success. The three-year effort funded the following technology:

Computer Science

- Computer Programming was re-introduced at the High School in 2013 and the program now serves over 60 students in courses from introductory to AP.
- A re-designed Computer Science curriculum gives every 6th grade student a full year of Computer Science. The program does more than just teach students to code; broader and deeper concepts such as decomposition, pattern recognition, algorithmic thinking and the engineering life cycle are also included.

Technology & Engineering

- Technology was instrumental in the curriculum changes that won the Ottoson Middle School Technology & Engineering Program the MassTEC 'Program of the Year' award for its innovative curriculum.
- Students research, design, simulate, and manufacture; enabling them to perform actual testing and gain real-world experience.

Digital Arts

- Eight high-end digital imaging workstations and printers, dedicated specifically to creative digital imaging, expand the visual art curriculum and visual art courses at the High School.

Mobile Science Workstations

- A mobile workstation cart is shared among High School science classes so students can get experience using scientific tools for modeling and simulations.
- Vernier probes allow students to collect data on motion, salinity, temperature, pressure etc.

2015 Technology for Science, Arts & Engineering

- Raised: \$106,000
- Mobile science workstations for High School
- High School Digital Arts Studio
- Additional Middle School computer and engineering labs

2014 Expansion of STEM at the Middle School

- Raised: \$34,000
- Enhanced Tech classes with computer simulations, app development and 3D prototyping
- Updated 6th grade Computer Science curriculum and equipment

2013 High School STEM* Lab

- Raised \$50,000
- Re-introduced computer programming courses



**Science, Technology, Engineering & Mathematics*

