

General Project Information Bond 2023

Project: Shaw Center Expansion

Project Description: The Robert Shaw STEAM Center was opened in 2015 with eight (8) shops primarily designed for robotics, a general shop area, and training room space. This facility also serves our elementary and junior high students.

Design development for this project included accommodations for this addition as noted on the October 2013 Board Presentation.

Background & Justification: Due to the growth of the district and the growth of Science/Technology/Art /Mathematics (STEAM) curriculum, we are recommending four (4) additional bays and an increase of the shop area.

Shaw Center Facts:

Building Mission – To inspire students to pursue STEM subjects and careers.

Students Served – More than 16,000 Katy ISD students visit the Shaw Center each year.

Activities

- **High School Robotics**

- o **Description** – High school robotics teams build robots and practice operating them at the Shaw Center. During peak season, they are at the Shaw Center six days a week. During off season they use the Shaw Center four days a week. Teams also use the Center to conduct summer programming camps for younger students.
- o **Value** – Students learn high level robotics, coding, manufacturing, public relations, media, teamwork, and more. Most graduates pursue STEM college courses and careers. Some graduates are currently working for NASA, Space X, and many engineering firms across the country.
- o **Need** - Currently we have eight (8) work bays. This is not enough to accommodate all ten (10) Katy ISD high schools.
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- **School Field Trips**
 - o **Description** – Every Katy ISD elementary school and junior high school sends one grade level during the school day.
 - o **Value** – Students get a fun, hands on experience with science concepts in their curriculum. Students are also exposed to the high school robotics program. Teachers find this in district experience the absolute ideal field trip.
 - o **Need** – A larger space will enable us to accommodate more students during one time which will allow more students to come during the school year. For example, currently a junior high grade level takes two days. If we cut this to one day, we can add more grade levels.
- **Summer Camps**
 - o **Description** - Multiple STEM summer camps occur at the Shaw Center each year.
 - o **Value** – STEM learning continues during the summer.
 - o **Need** – More students could be served during each camp.
- **Family Science Nights**
 - o **Description** – During the fall, the Shaw Center hosts five Family STEAM Nights.
 - o **Value** – Families experience a fun and inspiring event.
 - o **Need** – The Shaw Center cannot host Family STEAM Nights in the spring because of robotics practices during that time of year. More space would allow us to have Spring Family STEAM Nights.