Proposed Science, Technology, Engineering, Art, and Math Center Update



Deidra Emerson, Deputy City Manager October 18, 2022

Topics of Discussion

- What is STEAM?
- The Benefits of a STEAM Facility
- Proposed Location of STEAM Facility
- Proposed Use of STEAM Facility
- Sample City-Initiated Programming
- Facility Commitments
- Next Steps

What is S.T.E.A.M.?

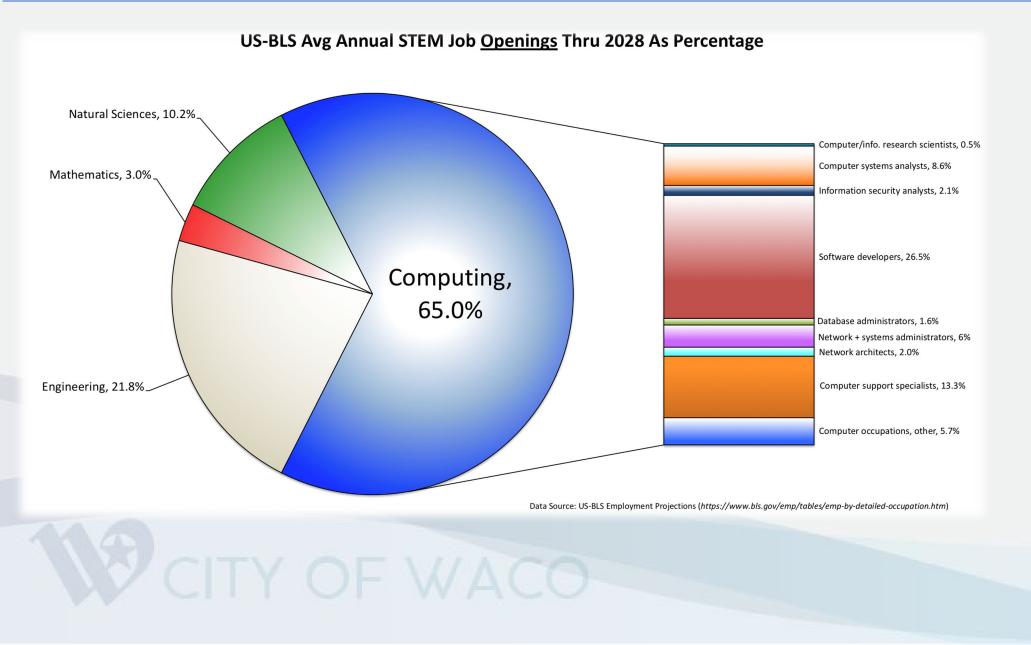
STEAM is a combination of two or more of the following within a learning experience: Science, Technology, Engineering, Arts, and Mathematics. STEAM also teaches soft skills needed in all careers, such as:

- ✓ Creativity
- ✓ Solving tough problems
- \checkmark Critical thinking
- \checkmark Gathering and evaluating evidence
- \checkmark Making sense of information
- ✓ Data analysis
- ✓ Communication





What is S.T.E.A.M.?



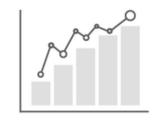
Benefits of providing S.T.E.A.M. Programming



STEM workers tend to earn about 26% more than non-STEM workers.



Yearly growth for STEM jobs is projected to be almost double that of non-STEM jobs.



Whether they work in a STEM field or not, people with a degree in STEM earn more than non-STEM counterparts.

Employers in non-STEM fields heavily recruit graduates with STEM degrees because they possess skills that students with other majors may not have developed.

Facility Location

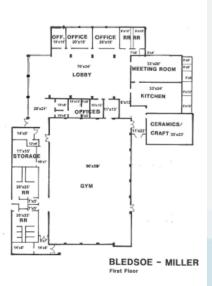


The Bledsoe-Miller Community Center is a 14,000 sq. ft 2-story concrete and stucco structure on Martin Luther King Jr. Blvd.

Proposed Space Design & Layout

The Bledsoe-Miller Community Center was explored by Digital Harbor Foundation located in Baltimore, Maryland. The recommended Facility usage includes:

- Digital Fabrication Labs
 Virtual Reality Labs
 Math/Science Labs
 Computer Lab
 Invention Education
 Classrooms
 Entrepreneurship
 Education Classrooms
- •Video Production & Digital Editing
- •Graphic Design
- Sound Production
- Robotics Labs
- •Music Room
- Radio Broadcasting StationOffice Space





Proposed Use of the Bledsoe-Miller Space

- Operate a STEAM Center Hub
- Classrooms for Seminars and Workshops
- Provide Exhibit Hall Space
- Outdoor Exhibit Area



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Sample City-Initiated Programming



Our Libraries, Parks & Recreation, Public Works, Engineering Services, & Water Utilities Departments have offered the following STEAM. enrichment opportunities:

- Water Education Today (WET) Conservation Water Science Program
- Minecraft & Roblox clubs
- Candy Science program for teens
- Bird watching
- Gardening activities
- Kids Cooking
- Lego S.T.E.M. Class
- S.T.E.A.M. Day (Previously "Engineering Day")

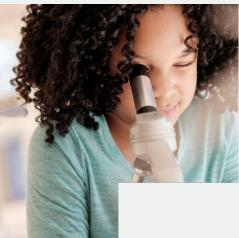
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Commitments to Date

- City of Waco
- Baylor University
- SpaceX
- M&M Mars
- Cisco







Next Steps

- Develop Program Steering Committee
 - October/November 2022
- Establish Cost for Facility Design
 - October/November 2022
- Continue to Identify Collaborators
 - Ongoing
- Continue to Identify Funding Opportunities
 - Ongoing

