

Creating a Culture of STEM Excellence in Your Home

Nurture your child's interests and abilities in science, technology, engineering, and math. Find opportunities for them to participate in extra-curricular STEM activities.

Help foster creative and critical thinking. Allow them opportunities for decision-making, even if they make mistakes when searching for solutions. Brain growth occurs when we make mistakes!

Create engaging experiences where your child can interact with the real world, not just a computer, television, or gaming screen.

Engage your child in discussions or games requiring critical thinking skills. Talk about school and outside activities. Encourage them to take on challenging projects.

Find role models and STEM superstars your child can look up to. Celebrate academics! Make STEM excellence COOL!

Bridging the Gap—Interactive Websites

pbskidsgo.org/scigirls
mathsnacks.com
doe.state.la.us
sciencebuddies.org
manufacturingiscool.com
curiositymachine.org



Other STEM Opportunities in Our Area

- Cyber Discovery Camps - SciPort / CIC
- Code Ninjas—Shreveport • Bricks 4 Kidz
- National Science Olympiad (school based)
- Destination Imagination (school based)
- STARBASE 2.0 Middle/High School STEM Mentoring Clubs (school based)



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STEM-Powering Your Child for the Future!



Excellence in Science

Technology

Engineering

Mathematics

STEM Education—Preparing our Kids for the Future

According to the Bureau of Labor and Statistics, Louisiana's unemployment rate is well above the national average, and is one of the highest in the nation. However, those that graduate from college or technical training programs, particularly those with a strong STEM background, have a much greater chance of finding employment. Research published by the Alliance for Science & Technology Research in America projects that there will be an increase of over 30,000 more high-paid STEM jobs in Louisiana over the next 10 years.



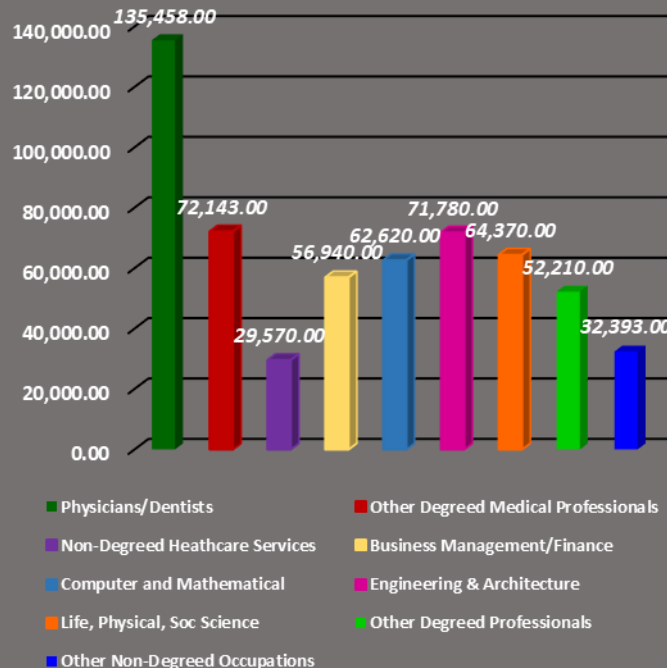
STEM education is much more than math equations, lab reports, blueprints, and computers. STEM is an open door for everyone and helps youth become better equipped to solve real problems and make good decisions now and in the future.

- Over the past 10 years, STEM job opportunities have grown three times as fast as growth in non-STEM jobs!
- STEM workers receive higher wages, earning 26% or more than their non-STEM counterparts!
- STEM degree holders enjoy higher earnings, regardless of whether they work in STEM or non-STEM occupations!

U.S. Dept of Commerce,
Economics and Statistics
Administration



Average Salary for Shreveport-Bossier City
May 2017 - Bureau of Labor and Statistics



What are the key job skills of the future?

- Observing
- Applying math skills
- Locating information
- Analyzing data
- Reading



In addition, employers want workers who demonstrate the "4 Cs":

1. Critical Thinking
2. Communication
3. Collaboration
4. Creativity



DoD STARBASE Louisiana: Investing in America's Future

STARBASE Louisiana at Barksdale Air Force Base is a national science, technology, engineering and mathematics (STEM) program sponsored by the Department of Defense. The goal of STARBASE is to raise the interest and improve the knowledge and skills of youth in STEM subjects to address the critical need for a highly skilled and STEM educated work force to protect our national security and maintain our nation's leadership, productivity, and economic edge.



STARBASE students experience STEM content elements, leading edge technology, and innovative instructional methods that develop scientific literacy, critical thinking, and problem solving. STARBASE 5-day student academies create an environment that actively engages students in STEM exploration which excites their interest, helps develop foundational scientific and mathematics literacy, and encourages them to actively pursue excellence in STEM activities. As a follow-up companion to the 5th grade academy, STARBASE 2.0 middle and high school groups further explore and expand their STEM knowledge and skills through advanced STEM topics and engineering projects coupled with mentoring by local STEM professionals.

