Partner Profile: Alabama STEM Education

Alabama STEM Education Mission

Since 2014, Alabama STEM Education (ASE), a 501(c) non-profit has introduced over 1,400 underrepresented and underserved K-12 students to quality STEM education through summer camp and after school programming in Bessemer, Birmingham and surrounding communities.

The Opportunity Gap

High-quality STEM learning is usually locked behind affluent, middle-class school districts, leaving students in under-resourced neighborhoods without access to math and science-rich environments—a divide ASE exists to bridge.

Core Programs

ASE runs three distinct, year-round initiatives that impact 300 to 500 students annually:

STEM Summer Camp: An affordable, high-quality camp. While similar camps are cost-prohibitive, aggressive fundraising allows ASE to offer this to low-income families for just $350/month.

"Raise the Bar": Year-round academic enhancement and personal development.

T.A.P.E. (Tutoring And Practical Exposure): Direct academic support combined with real-world application.

"Dinner for the Family" - ASE engages the whole family through monthly newsletters, "Dinner for the Family" events, and various exposure trips, reinforcing the crucial support system behind the child.

"Education is the most powerful weapon which you can use to change the world" - Nelson Mandela

Curriculum & Experience

Technical Skills
Robotics, computer programming, and fundamental engineering. Students build and program single-board electronics using sensors to control objects.

Career Exploration
Through speaker forums, workshops and educational field trips, students can explore career options they might otherwise not have access to.

Mentorship
One-on-one small-group tutoring from dedicated community volunteers.

Community Partners

ASE actively collaborates with top-tier local institutions to provide exceptional STEM training:

Auburn University
University of Alabama at Birmingham (UAB) Engineering
Lawson State Community College
Miles College
University of Montevallo

How You Can Help

The demand for STEM careers is skyrocketing. By partnering with ASE, you are directly dismantling economic barriers, fostering a cooperative community network (parents, schools, and businesses), and preparing Bessemer and North Birmingham students to thrive in tomorrow's workforce.

Wishlist: Funding for After School Programing (See attached proposal)
This project delivers a complete, hands-on STEM curriculum to two Alabama STEM Education (ASE) early childhood locations (Daycare through Pre-K). Mattison Hall Group provides the complete framework: Blue Duck Digital handles local marketing to fully enroll the programs, while MHG supplies custom lab curriculum, trains ASE's existing teachers, provides all raw classroom supplies, and seeds a permanent fleet of learning technology.
