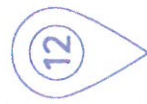


# Arkansas STEM Coalition Initiatives

The Arkansas Science, Technology, Engineering & Mathematics (STEM) Coalition is a statewide partnership of leaders from the corporate, education, government and community sectors which plans, encourages, coordinates and advocates policies, strategies and programs supportive of excellence in STEM teaching and learning in order to expand the economy of Arkansas and produce higher paying jobs.



## 12 Statewide STEM Centers:

Much of our work is accomplished through the STEM Centers located at universities and colleges across the state. The Centers work to bridge the gap between PK-12 learning and higher education. The work includes professional development, technical support, support for family math and science events, and other resources to teachers and schools as well as informal educators such as Out-of-School Time (OST) practitioners and community-based youth development programs.



## Health Sciences Leadership Career Tech Days

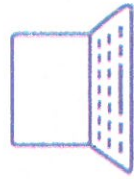
These conferences started for the first time in the spring of 2019. The STEM Centers hosted Health Sciences Career Tech Days for 8th graders to introduce them to a variety of career paths in health sciences. **Over 1000 students participated in the one day conferences.** This program is funded in part by the Arkansas Department of Career Education using Carl D. Perkins Funds.

state science standards. This program is made possible through the sale of education license plates. The Arkansas Committed to Education Foundation distributes funds to the Arkansas STEM Coalition. **Since 2011 over \$774,000** worth of science equipment and professional development has been distributed to schools and districts across the state. As of 2018, **178 school districts and 235 schools, serving 1,571 teachers; 48,313 students benefited from this program.**



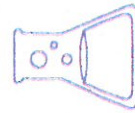
## STEM Girls Leadership Conferences

Held at each of the 12 STEM Centers, each conference can host up to 100 girls in grades 7th-12th in order to spark interest in STEM based careers and fields of study and confidence in STEM learning. **The Arkansas STEM Coalition has hosted 77 conferences, serving more than 6400 girls across the state since 2014.** This program is funded in part by the Arkansas Department of Career Education using Carl D. Perkins Funds.



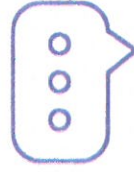
## Laptop Loan Program

Community based programs such as faith based organizations and Out-of-School Time (OST) programs as well as schools and universities can check out up to 130 laptops to provide coding or computer science workshops to youth. This program is supported by AT&T and eSCO Processing and Recycling Company. **Since 2014 over 2000 laptops have been loaned out to organizations.**



## Science Equipment Grants

Grants to support the purchase of science equipment for 3rd-6th grade students are distributed to the STEM Centers from the Arkansas STEM Coalition. The Centers provide professional development as well as the science equipment which support the



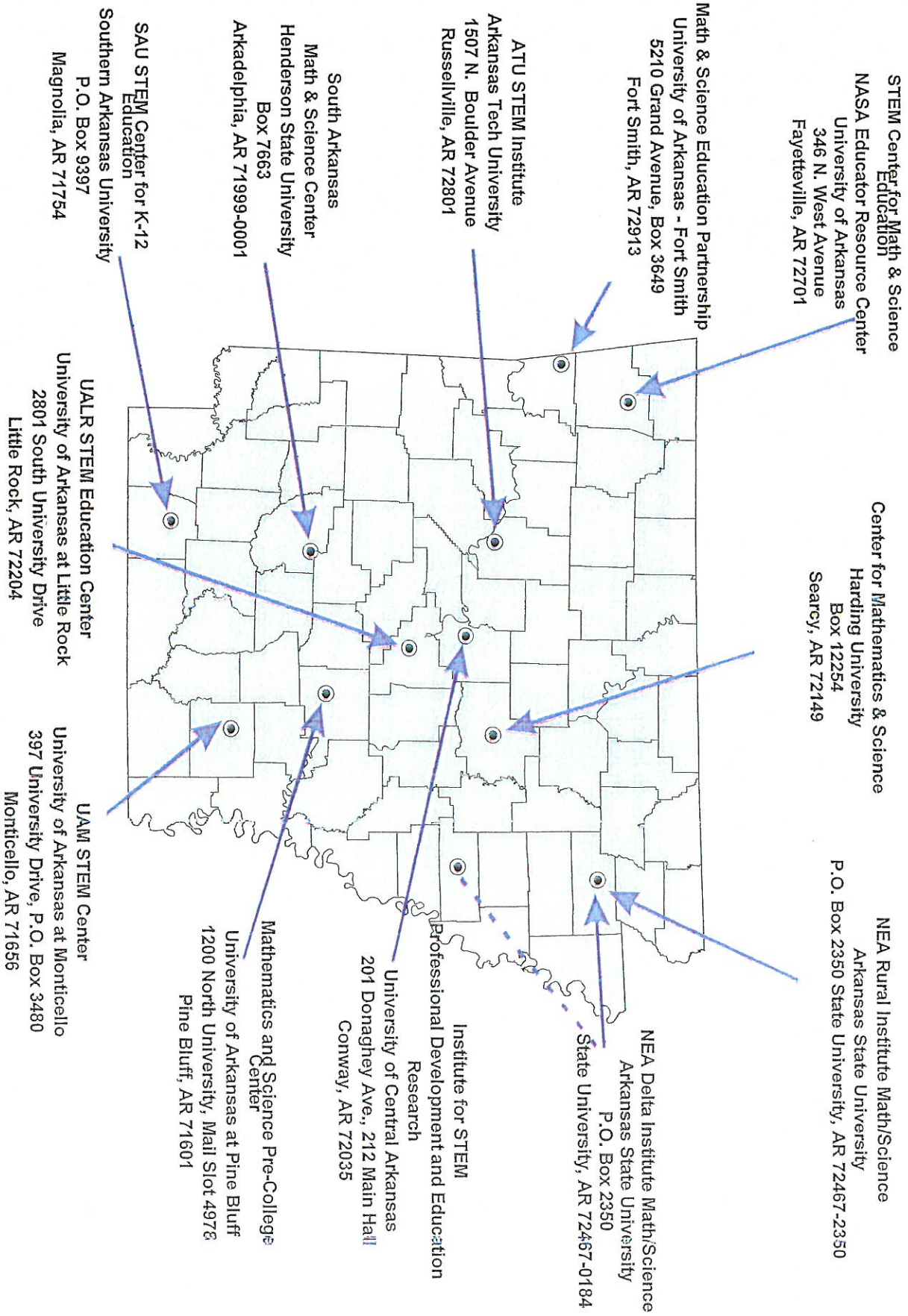
## Quarterly & Regional Meetings, STEM Summits

Various stakeholders including business/industry leaders, Prekindergarten - twelfth grade educators, college and university leaders, Out-of-School Time practitioners, informal learning (Science Centers, museums, libraries and other community based programs) leaders come together at quarterly and regional STEM meetings to share ideas, best practices, resources, and collaboration or partnership opportunities to enhance the quality, quantity, and access of STEM programs across communities. **Each year we host 4-6 or more quarterly and/or regional meetings, serving an average of 80 participants at each meeting. Three statewide STEM Summits have been held to date with an average 250 participants at each conference.**





# NETWORK OF CENTERS FOR MATHEMATICS AND SCIENCE EDUCATION





# ARKANSAS STEM ECOSYSTEM INITIATIVE

## ARKANSAS STEM COALITION

### ECOSYSTEM VISION

The Arkansas STEM Ecosystem envisions a state where all people have equal access and opportunity to engage in quality science, technology, engineering, and mathematics learning experiences that increase their ability to succeed in education, career, and community, leading to a vibrant and dynamic economy.

### ECOSYSTEM GOALS

1. Develop innovative ways to collaborate across sectors to support STEM education, grow and connect community and statewide partnerships, and ensure effective coordination of STEM and workforce initiatives.
2. Increase the number of students selecting STEM as a career or entrepreneurial opportunity, especially by women and underrepresented minorities.
3. Increase participation by business and
4. Industry, generating a dramatic increase in real world learning opportunities for students and teachers.
4. Identify current STEM programs, resources, and assets available across the state.
5. Develop a communication system with increased awareness of STEM priority and access to STEM resources.
6. Ensure sustainability and growth of the Arkansas STEM Ecosystem

### ECOSYSTEM PARTNERS

- 4H Arkansas
- Arkansas Division of Elementary & Secondary Education
- Arkansas Department of Career Education
- Arkansas Department of Higher Education
- Arkansas Discovery Network/Museum of Discovery
- Arkansas Educational Service Cooperatives (15)
- Arkansas Educational Television Network (AETN)
- Arkansas Out of School Network
- Arkansas Regional Innovation Hub
- Audubon Arkansas
- Clinton School of Public Service
- EAST Initiative
- Electric Cooperatives of Arkansas
- Go Forward Pine Bluff / The Generator Innovation Hub at Go Forward Pine Bluff
- Hytrol Conveyor Company Inc.
- Little Rock Zoo
- MidAmerica Science Museum
- Pea Ridge School District
- Pulaski Technical College – STEM Success Center
- Scott Family Amazeum
- University STEM Centers (12)
- Women's Foundation of Arkansas



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Arkansas STEM Coalition

