

# ARKANSAS NETWORK OF CENTERS FOR STEM EDUCATION

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ERZ is a broad-based P-20 initiative assigned the task of concentrating and coordinating available resources to improve school performance and student achievement.

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## Statement of Purpose:

The Arkansas Network of STEM Centers serves to enrich the knowledge and teaching practices of teachers in Science, Technology, Engineering, and Mathematics by:

- linking institutions of higher education to K-12 public and private schools, educational service cooperatives, businesses and industry and community partners.
- providing services and resources for teachers, administrators, and students.

The Centers work to keep the public informed and offers implementation assistance as it relates to trends in education.

## Objectives:

- Provide professional development opportunities for classroom teachers, administrators, and other educators.
- Strengthen the skills and preparation of pre-service teachers.
- Increase collaboration between the Schools of Arts and Sciences and the Schools of Education at institutions of higher education.
- Contribute to improving student achievement in science, technology, engineering and mathematics.
- Assist schools in curriculum, instruction and assessment improvements and reform.
- Foster partnerships with school districts in order to provide technical assistance.
- Promote collaboration and coordination of activities with the Educational Service Cooperatives.
- Support high quality mathematics and science education in the state.
- Coordinate with the Arkansas Department of Education in school improvement efforts.
- Serve as resources for mathematics, science and technology materials.

## Examples of Professional Development and Technical Assistance Opportunities

- New AR Science and math standards
- K – 12 Vertical Alignment of Topics/Tech.
- Project/Problem/Phenomenon-based & Inquiry-based Instruction in Science and Mathematics
- Development of Performance Assessments and the Use of Rubrics
- Technology Professional Development
- Custom Designed Programs to Meet the Needs of Individual Schools
- Student Enrichment Programs
- School Improvement Planning
- Technical Assistance: Instructional Technology, Data Analysis, Curriculum Implementation
- Science Classroom/Laboratory Safety
- Effective Use of Math Manipulatives and Science Equipment
- Parental Involvement & Family Math/Science/Literacy Nights
- Engineering Design Process Projects in Math and Science
- Robotics (VEX, LEGO, BEST, FIRST, TETRA, etc.)

### ARKANSAS DISCOVERY NETWORK

500 President Clinton Avenue, Suite 150  
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### LITTLE ROCK ZOO

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# ARKANSAS

## Network of STEM



# 2019-2020

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