

# Implementation of the Arkansas Regional Workforce Grant

“Realigning with 21<sup>st</sup>  
Century Workforce”

Dr. Ken Warden, University of Arkansas – Fort Smith

# Overview of Session

## ◆ Design of State Program

- Legislative Intent
- Requirements
- Pathway

## ◆ UAFS Program

- Need of the Region
- Statistics of Program
- Two Grant Awards
- Collaborations

## ◆ Next Steps

- Sustainability
- Data and Tracking
- Career Mapping





# Design of State Program

Arkansas Department of Higher Education



# Legislative Intent

- ◆ Workforce Initiative Act in 2015
- ◆ Creation of statewide comprehensive structure for workforce development that reduces skills gaps in the regional workforce pool
  - Evaluation of workforce needs of state
  - Coordination of secondary and postsecondary education, including career and technical programs (CTE)
  - Pursuit of high demand jobs, including those that require industry recognized credentials, short-term training through bachelor level programs
  - Create long-term relationships between employers and regional workforce alliances
- ◆ Facilitation of a skilled and employment-ready workforce through alignment of education and workforce needs through a competitive grant process



# Core Requirements

- ◆ Representation from mandatory partners
  - CTE educators or appropriate local K-12 district that awards concurrent credit
  - Technical institute, community college or university offering CTE programs
  - Employers representing critical needs in the identified workforce region
- ◆ Enhance, expand or create clearly defined CTE pathway program(s) at technical institutes, community colleges or universities that includes concurrent secondary center programs to fill a critical, demonstrable local workforce need

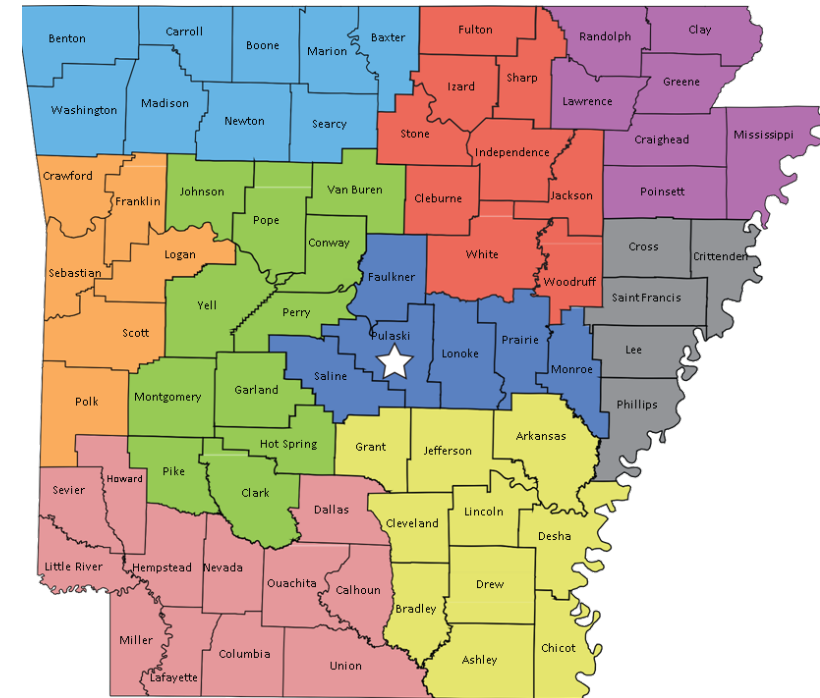


# Core Requirements

- ◆ Include programs which emphasize basic skills instruction concurrently with occupational training
- ◆ Embrace diversity of student enrollment
- ◆ Provide essential support services which link to resources that assist students in progressing along the identified pathways, including advising on academic, employment, financial and personal issues
- ◆ Develop and implement collaborative apprenticeship or training programs that prepare workers for rapid entry into the workforce or provide recognized industry certifications

# Pathway of Program in Arkansas

- ◆ Workforce regions in Arkansas
- ◆ Grants designed to meet the workforce needs of the region
- ◆ Awarded Grants
  - 21 Planning Grants
    - Range from \$31,512 to \$95,000 for one year grant
  - 20 Implementation I grants
    - Range from \$356,740 to \$988,570 for two year grant





# UAFS Program

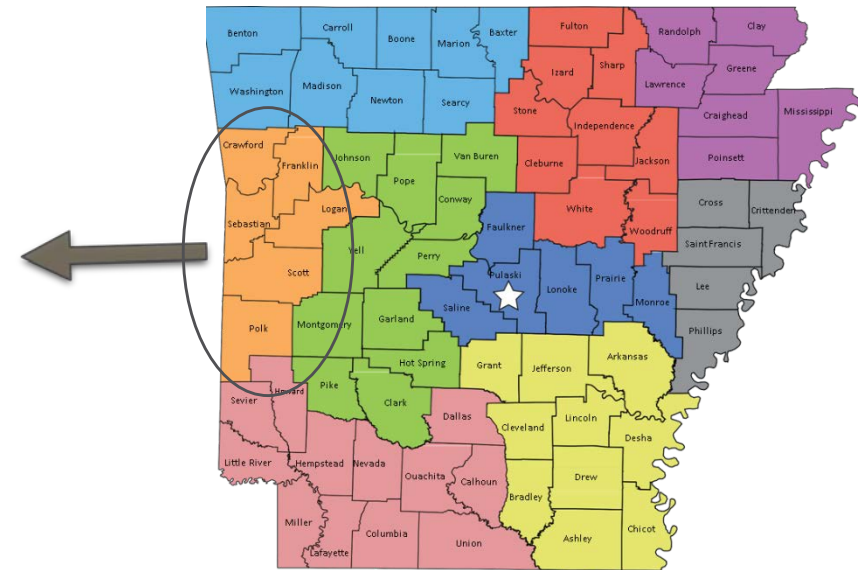
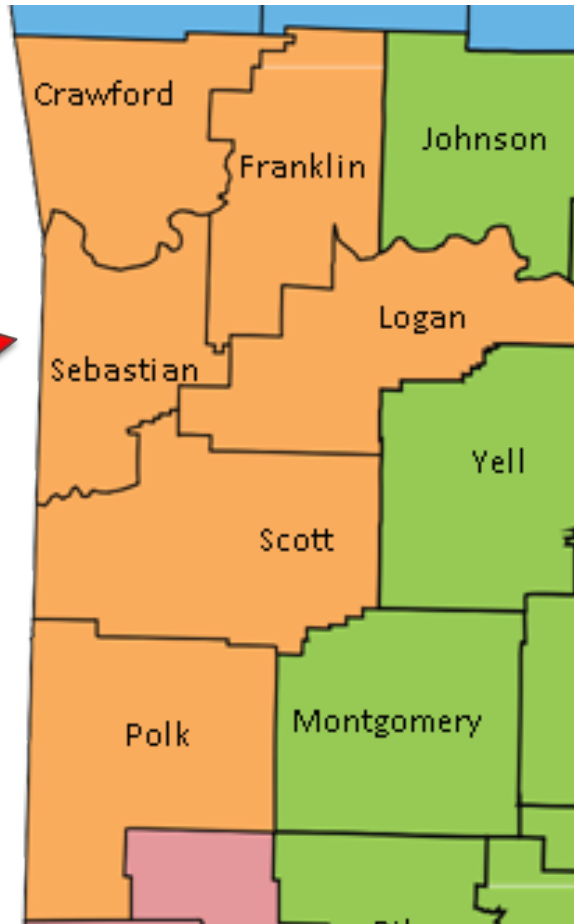




# Workforce Region Impacting Fort Smith Area

◆ Grant impacted counties:

- Crawford
- Franklin
- Logan
- Sebastian



Arkansas median household income: \$42,336

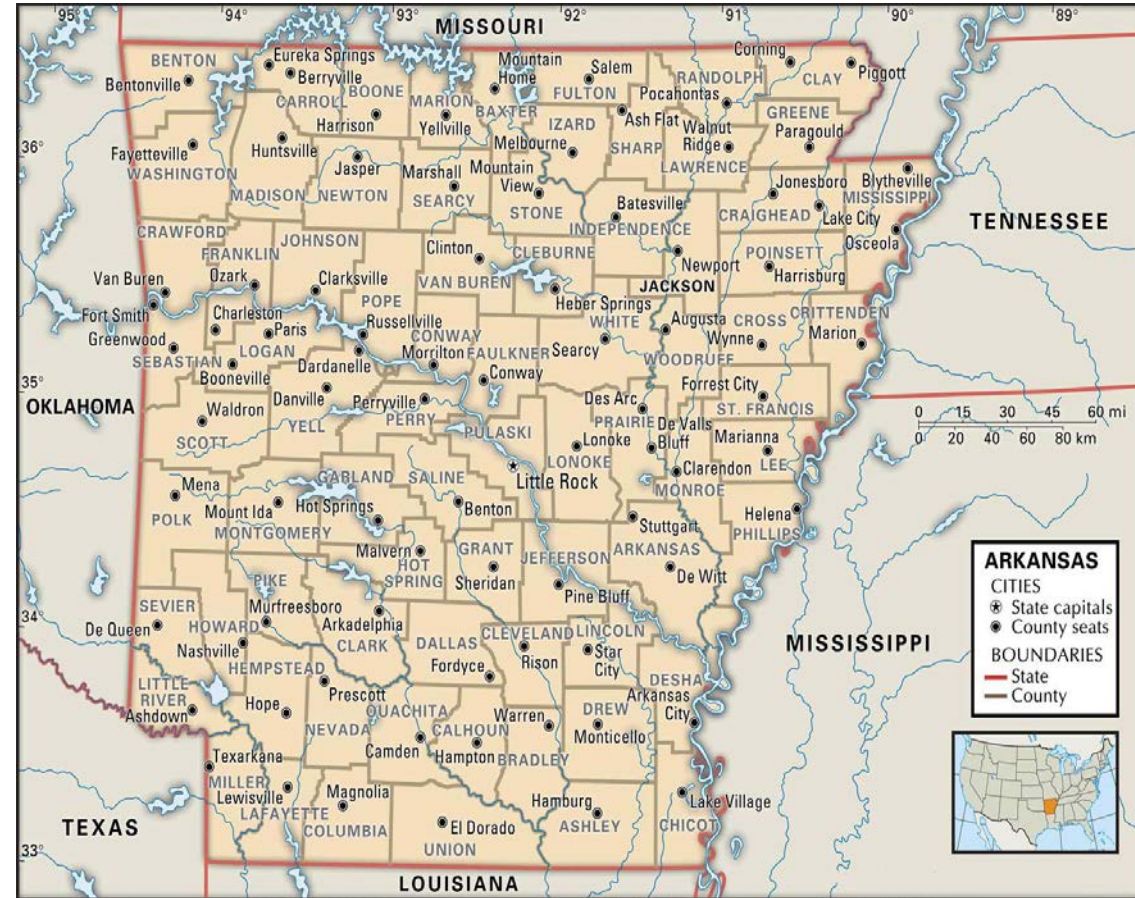
U.S. median household income: \$55,322

# 2010 Population of Area

- **State of Arkansas = 2,915,918**
- Sebastian County (Fort Smith) = 125,744
- Crawford County = 61,948
- Franklin County = 18,125
- Logan County = 22,353

American Fact Finder. (2010). Profile of General Population and Housing Characteristics: 2010 Demographic Profile Data. Retrieved from <https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=CF>

Maps of Arkansas. (2018). Retrieved from <https://www.mapofus.org/wp-content/uploads/2013/09/AR-county.jpg>





# Need of the Regional Workforce

- 1.5 million jobs related to robotics and require “middle skills”
- More than 25,000 jobs in three county area in western Arkansas are in the manufacturing sector
- Transferable skillsets

<b>Job Title</b>	<b>Job Openings</b>	<b>Mean Wage (AR)</b>
<b>Cyber Systems</b>		
Information	112,000	\$67,230
<b>Automation</b>		
Manufacturing	364,000	\$33,120

# Partnership in Region

- ◆ Unique, three tier partnership
  - Higher education
    - University of Arkansas – Fort Smith
  - Secondary education
    - Eight area high schools
  - Business and industry
    - Ten regional companies with approximately 24-35 different professionals
- ◆ Classes on high school campus
- ◆ UAFS instructors travel to high schools
- ◆ Replicated UAFS labs at high schools with same or more updated equipment

# Logos



HICKORY SPRINGS<sup>®</sup>  
MANUFACTURING COMPANY



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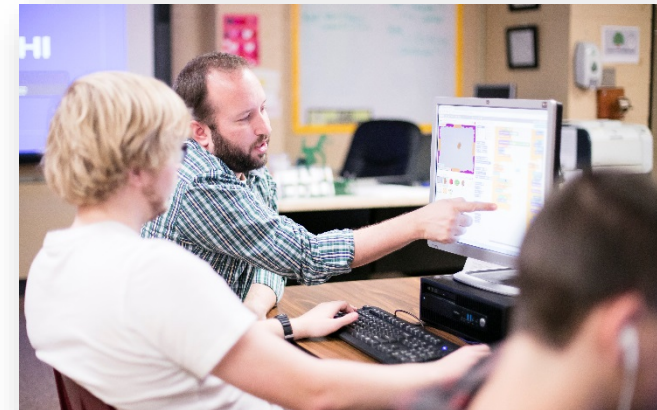
# Two Grant Pathways

## Robot Automation

- ◆ Leads to Electronics Technology skillset
  - Certificate of Proficiency
  - Technical Certificate
  - Associate of Applied Science
  - Bachelor of Science in Electrical Engineering Technology
    - Certificate of Proficiency in Robotics imbedded throughout AAS and BEET
- ◆ 21<sup>st</sup> Century Technology
- ◆ Replicated UAFS lab at high school campuses

## Cyber Systems

- ◆ Information Technology/Computer Science
  - Bachelor of Science in Information Technology
- ◆ Learn multiple computer languages
- ◆ Virtual simulation software



# Program Coursework

## Robot Automation

- Year 1
  - Fundamentals of Electricity
  - Introduction to Electronics Technology
  - Special Topics: Robot Automation
- Year 2
  - Industrial Electricity
  - Electrical Circuits and Components
- Year 3
  - PLC Applications
  - Intro to Programming

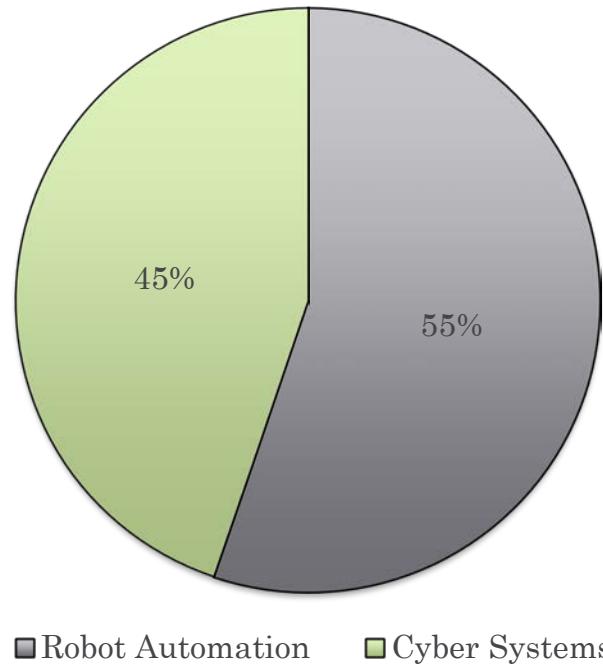
## Cyber Systems

- Year 1
  - Computer and Information Science Concepts
  - Foundations of Programming I
- Year 2
  - Foundations of Programming II
  - Foundations of Networking
- Year 3
  - Foundations of Operating Systems
  - Database Systems I

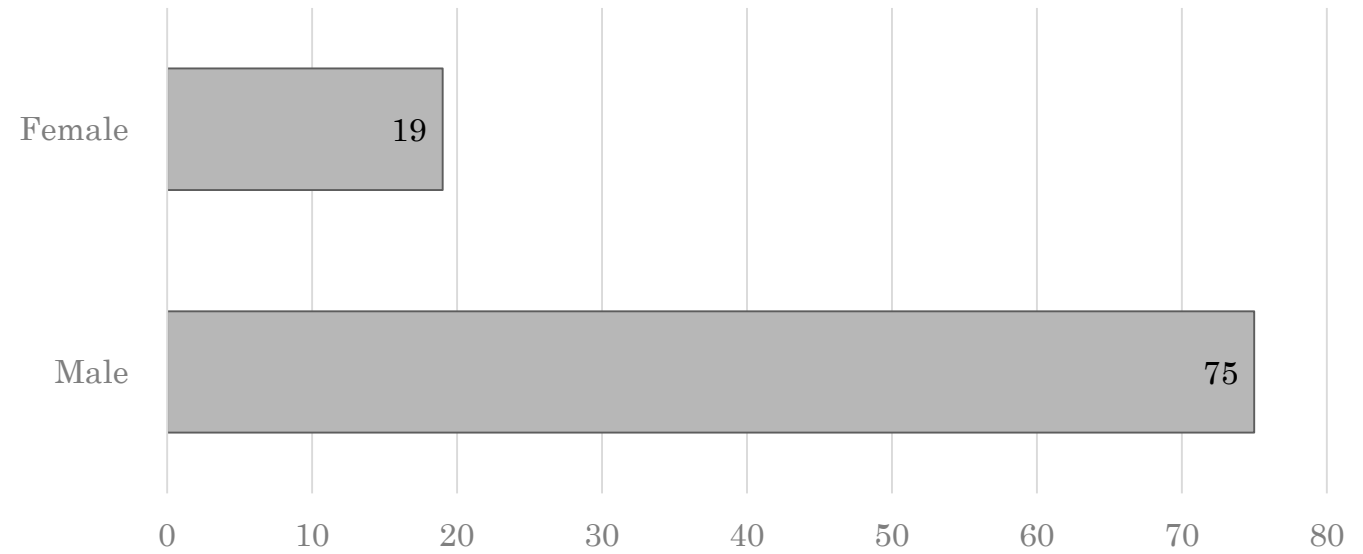


# Fall 2016

## RWG Student Participation



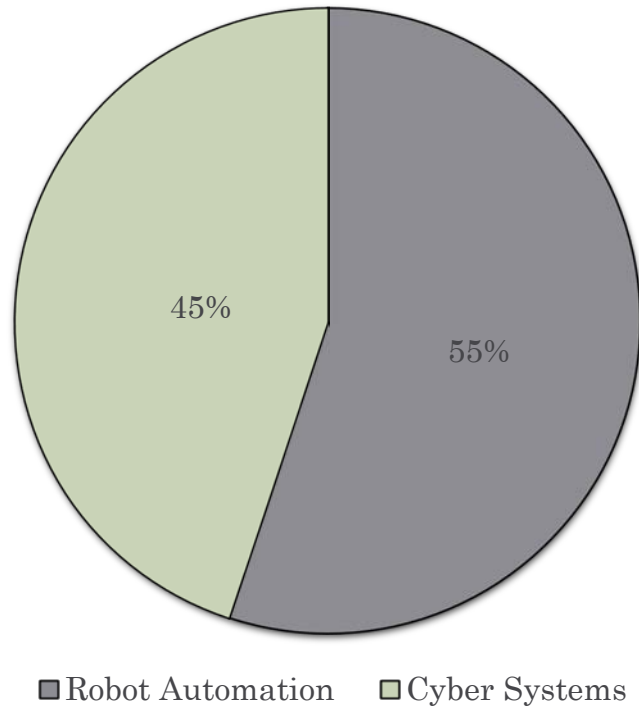
## RWG Students



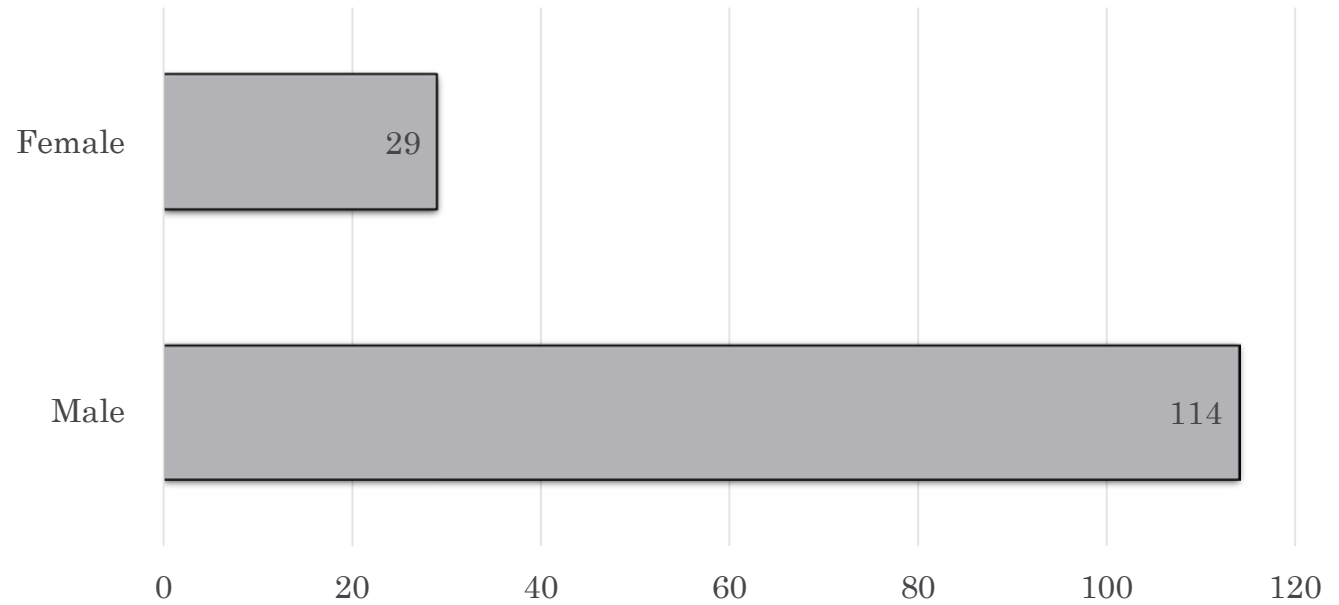


# Fall 2017

## RWG Grant Student Participation



## RWG Students



# Student Success – Year 1 & 2

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	Start of Term	% of students with 'A'	% of students with 'C' or higher
Cyber Systems	31	67%	93%
Robot Automation (all)	69	55%	95%

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	Start of Term	% of students with 'A'	% of students with 'C' or higher
Cyber Systems	52	52%	80%
Robot Automation (all)	94	66%	99%

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# Additions/Changes to Programs

## Cyber Systems

- ◆ Change of school partnership
- ◆ Addition of school partnership
- ◆ Evaluation of program and student success each semester and year



# Executive and Professional Mentorships

- ◆ 10 companies
- ◆ 24-35 mentors
- ◆ Various ranges in careers
  - Operations managers
  - Engineers
  - Intelligence analysts
  - CFO
  - HR manager
  - Plant manager
  - Senior director technology
  - IT specialist
  - Senior project engineer
- ◆ ABB (Baldor Electric)
- ◆ ArcBest
- ◆ Arkansas Air National Guard, 188<sup>th</sup> Wing
- ◆ Arkansas Army National Guard
- ◆ Arvest
- ◆ Hickory Springs Manufacturing
- ◆ Pernod-Ricard
- ◆ Trane Custom Commercial
- ◆ Walmart Technologies
- ◆ Weldon, William, and Lick, Inc.

# Logos



Pernod Ricard



# Extensive Collaborations

## ◆UAFS Interdisciplinary

- College of Applied Science and Technology
- College of Science, Technology, Engineering, and Mathematics

## ◆K-12 Partnership

- Eight school districts
- Collaborative advising

## ◆Industry Partners

- Career Mapping
- Salary and positions available in region

## ◆Advisory Board

- K-12
- Industry
- Postsecondary

## ◆State Agencies

- Arkansas Department of Higher Education
- Arkansas Department of Career and Technical Education

# Next Steps



# Next Phase of Program

## ◆ Off-Site Locations

- Pilot group with Fort Smith Public Schools
- Classes at industry partner locations
- Classroom connection to real-world skills
- Networking and partnership for students
- Integrated projects to allow students to make classroom connections to workplace needs

## ◆ Sustainability Model

- Scaled tuition and fee structure
- Grant pays all upfront costs in year 1
- School districts pick up a portion of costs beginning in year 2

## ◆ Job Placement and Internships

- Goal: Track student job placement and graduation track
- Intensive and collaborative academic advising with program staff and high school counselors



# Partnership with State

- ◆ Partnership and collaboration with others around the state
  - State agencies
    - Arkansas Department of Career Education
    - **Automated Robotics Technology (ART)**
  - Secondary education
  - Institutions of higher education
  - Business and Industry





Questions?