

ADTEC

Arkansas Delta Training and Education Consortium



Arkansas Northeastern College | Arkansas State University-Newport
East Arkansas Community College | Mid-South Community College
Phillips Community College of the University of Arkansas

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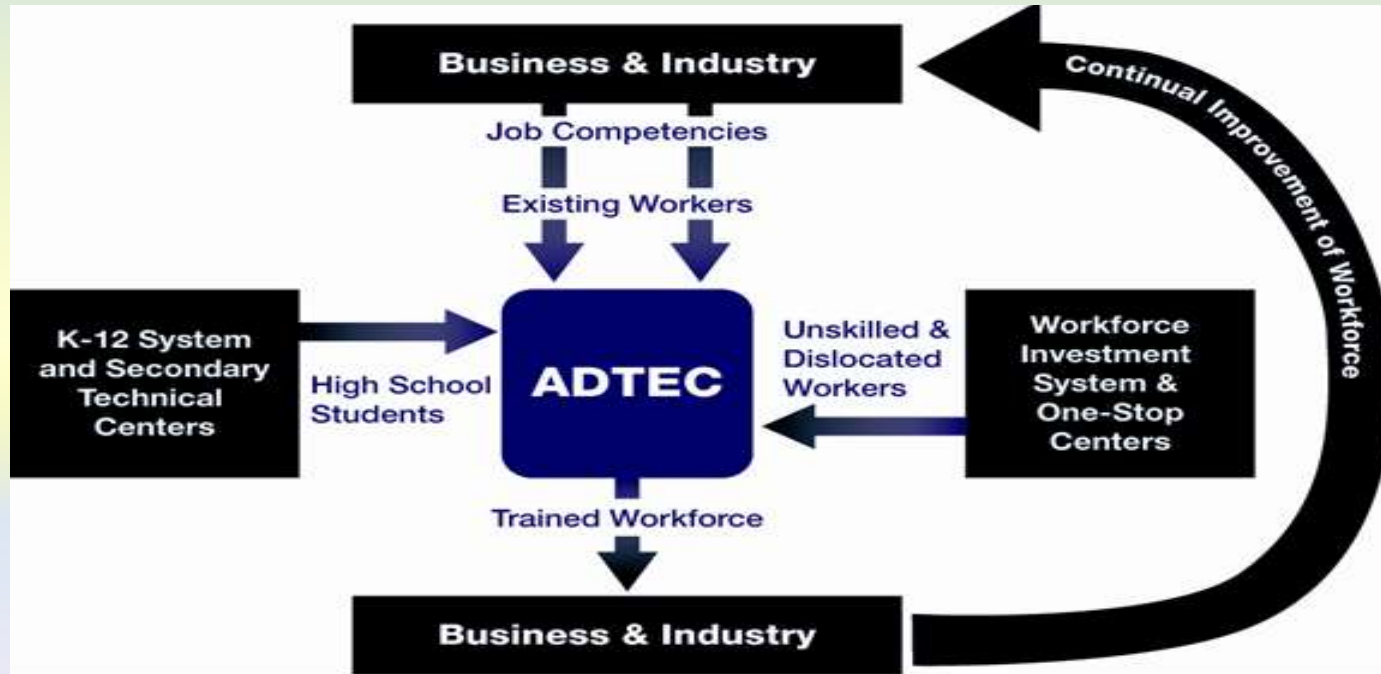
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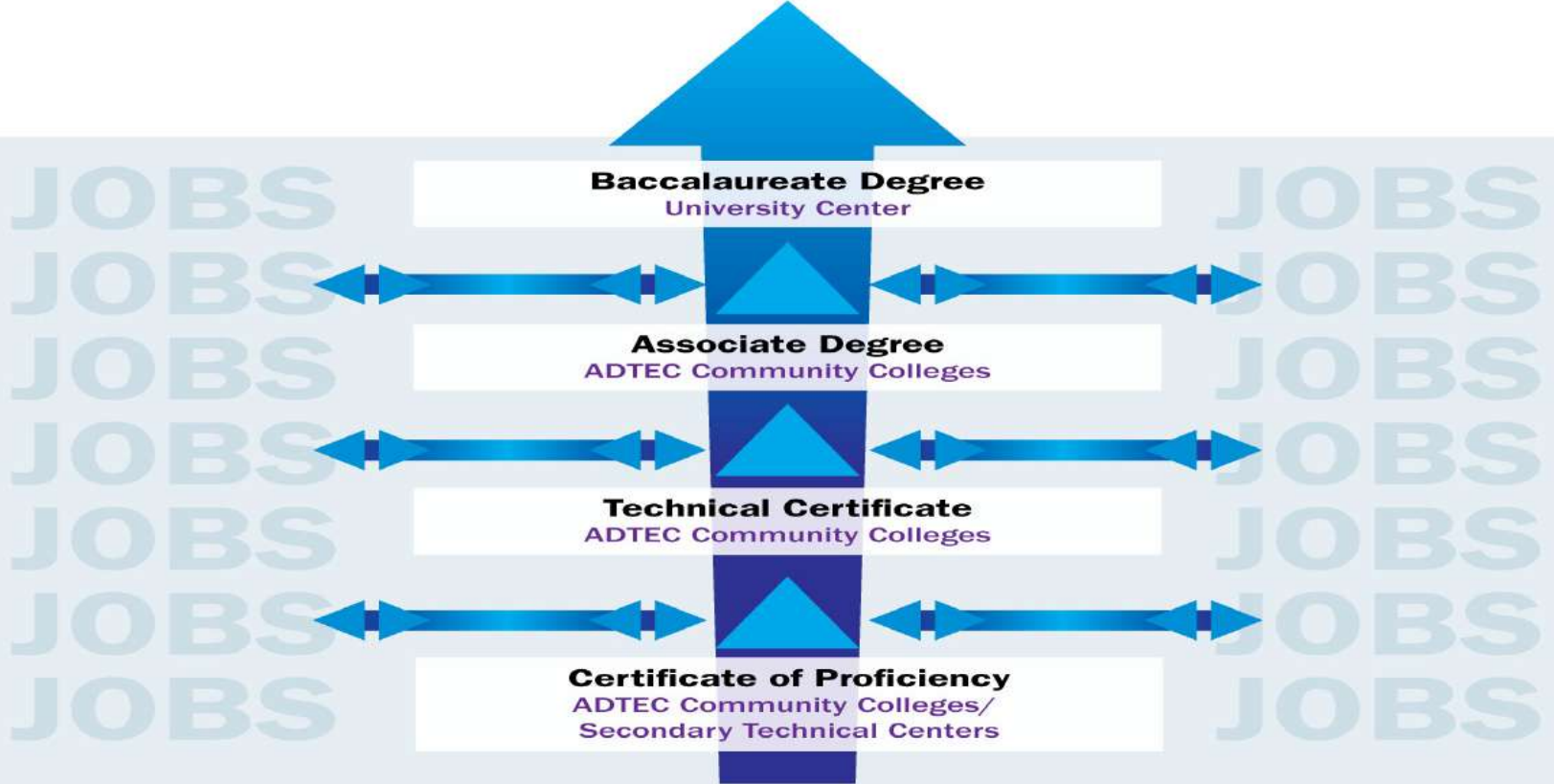
Partnerships

- ❖ Industry
- ❖ K12 System / Secondary Technical Centers
- ❖ Universities – ADTEC University Center
- ❖ Workforce Investment System / One-Stop
- ❖ Community / Philanthropic Organizations

ADTEC Workforce Development Model



Career Pathway





K12 System/Secondary Technical Centers

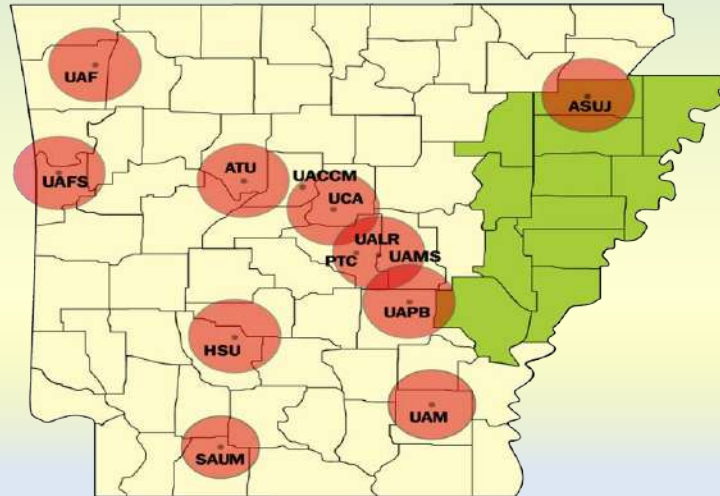
- ❖ **Secondary technical centers provide career/technical education programs to high school students within a 25-mile radius of a center location.**
- ❖ **Each of the ADTEC colleges operates a secondary technical center.**
- ❖ **Concurrent credit is available to high school students who successfully complete the coursework in a secondary technical center program.**



K12 System/Secondary Technical Centers

- ❖ **High school students who complete a two-year program may earn a college certificate of proficiency, which is the first Career Pathway credential.**
- ❖ **The ADTEC region serves 33 school districts and a public school population of nearly 50,000.**
- ❖ **Secondary technical center enrollment for the ADTEC region averages a little more than 1,000 students each semester.**

ADTEC University Center



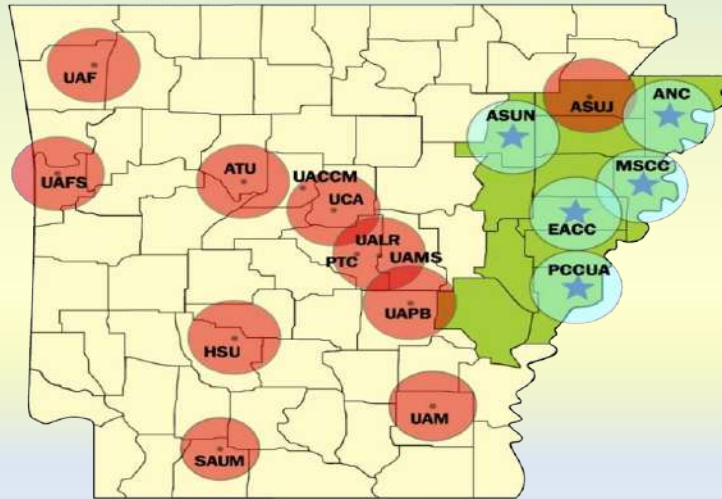
Bachelor's Degree Access in ADTEC Region
Prior To University Center



ADTEC University Center

- ❖ **Brings strategically identified bachelor's degrees to the Arkansas Delta**
 - Renewable Energy Technology
 - Information Technology
 - Entrepreneurship
 - Middle Level Teacher Education
 - Transportation/Logistics
 - Diesel Technology
 - Bachelor of Applied Science

ADTEC University Center



**Bachelor's Degree Access in ADTEC Region
As a Result of the University Center**



- **Arkansas State University**
- **University of Arkansas**
- **University of Arkansas at Fort Smith**
- **University of Central Arkansas**
- **Montana State University Northern**
- **Arkansas Tech University**
- **Franklin University**
- **Bethel University**



University Center Bachelor Degrees

Arkansas State University

Associate in Applied Science degree in Nursing
Bachelor's degree in Elementary Education
Bachelor's degree in Early Childhood Education
Bachelor's degree in Business
Bachelor's degree in Nursing
Bachelor's degree in Radiologic Technology
Master's degree in Business Administration
Master's degree in K-12 Curriculum and Instruction
Master's degree in Public School Administration
Master's degree in Nursing

University of Arkansas – Fort Smith

Information Technology Applied Science

Bethel University

Organizational Management

University of Central Arkansas

Bachelor's degree in Middle School Teaching
Master's degree in Library Science

University of Arkansas- Fayetteville

Human Resources Development

Franklin University

Online Bachelor's degree in the following:

Accounting
Applied Management
Business Forensics
Computer Science
eMarketing
Financial Management
Forensic Accounting
Healthcare Management
Human Resources Management
Information Technology
Management
Management Information Sciences
Marketing
Public Safety Management
Web Development

Montana State University

Diesel Technology

Arkansas Tech University

Emergency Management



ADTEC Strategies to Support Industrial Sectors and Foster Economic Development

- ❖ Create an alternative energy training and education capacity.
- ❖ Create a transportation center of excellence.
- ❖ Expand the advanced manufacturing support structure.
- ❖ Expand the workforce development Infrastructure.
- ❖ Expand the education infrastructure



Advanced Manufacturing Technology

- ❖ Have provided training to **9,449** new and incumbent workers
- ❖ Developed Advanced Manufacturing laboratories on each ADTEC college campus
- ❖ Developed curriculum for CP, TC, and AAS in Advanced Manufacturing, leading into a BAS degree through the ADTEC University Center



Renewable Energy Technology

- ❖ Created the Center of Excellence in Renewable Energy Technology Education (CERETE) in Arkansas County at PCCUA
- ❖ Developed curriculum for CP, TC, and AAS in Renewable Energy Technology, leading into a BAS degree through the ADTEC University Center
- ❖ Enrolled 219 students in Fall 2009; this was the first official enrollment into the program



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Transportation Technology

- ❖ Created the Transportation Technology Education Center on the MSCC campus
- ❖ Developed secondary technical center programs in Distribution and Warehouse Operations
- ❖ **Collaborated with Montana State University – Northern to bring bachelor's degree in Diesel Technology to eastern Arkansas**
- ❖ Enrolled 143 students in transportation-related programs since Fall 2000
- ❖ Aviation Technology Program in partnership with FedEx



Allied Health

Collaborating to develop a regional workforce for

- ❖ Occupational Therapy Technician
- ❖ Medical Laboratory Assistant
- ❖ Surgical Technician
- ❖ Medical Assistant

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ADTEC Airframe and Power Plant Program

US Department of Labor
Partnership with FedEx

\$3.8 Million Grant

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The logo features the acronym "ADTEC" in large, white, bold, sans-serif font on a dark blue rectangular background. To the right of the text is a white outline map of the state of Arkansas, with several red stars placed within its borders. Below the map, the text "Arkansas Delta Training and Education Consortium" is written in a smaller, yellow, sans-serif font.

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The background is a composite image. The left side shows a freight train with blue and black locomotives and blue railcars on a track in a rural, hilly landscape. The right side shows a large red and white tugboat with a black hull moving through water, leaving a white wake. The overall scene is set against a backdrop of rolling hills and a clear sky.

Arkansas Delta Transportation Education Project

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- The background for the list is a semi-truck with a white trailer driving on a multi-lane highway. The truck is in the foreground, and other trucks are visible in the distance. The landscape is a flat, open area with some vegetation.
- U.S. Department of Labor
 - \$4,326,254 Grant
 - ASU –Newport is the Lead College
 - Provides capacity at ADTEC colleges to train workers for the transportation and agriculture industries

A microscopic view of numerous green, spherical cells, likely algae or bacteria, arranged in a grid-like pattern. The cells are bright green and have a distinct, darker green center, giving them a textured, almost crystalline appearance. They are set against a lighter green background.

University of Missouri, MSCC, Memphis Bioworks and others

- \$45 million grant to replace petroleum-based fuels with biofuels.
- MSCC gets \$3.3 million

- 
- University of Minnesota
 - University of Wisconsin
 - Iowa State University
 - University of Illinois
 - Southern Illinois University
 - Lincoln University
 - Arkansas State University
 - Murry State University
 - University of Memphis
 - University of Tennessee

- **Mid-South Community College**
- Mississippi State University
- Oak Ridge National Lab
- USDA Forest Products Lab
- USDA Northern Research Station
- USDA Southern Research Station
- USDA ARS
- USDA NRCS
- Memphis Bioworks Foundation
- BioDimensions

ADTEC Workforce Development Investments

ADWE Advanced Manufacturing Curriculum Development Grant - \$20,000 October 2005	Awarded by ADWE for curriculum development for advanced manufacturing; model is to be replicated in secondary technical centers and high schools
U.S. Department of Labor High Growth Advanced Mfg Grant \$5,935,402 November 2005	Creates ADTEC; builds capacity for automotive/advanced manufacturing training; to train 2,500 new manufacturing workers in 3 years – over 8,000 actually trained; create education/career pathway from secondary technical centers through four-year institutions
DRA Advanced Manufacturing Equipment Grant - \$250,000 February 2006	Supports the purchase of industry-identified equipment to be used for automotive manufacturing training
Workforce Technology Center \$7,984,546 March 2006	Houses training programs for manufacturing, automotive, and other industries; includes secondary technical center programs
NSF Grant - Mid-America Transportation Technology Education Center (MATTEC) \$419,383 August 2006	Establishes MATTEC; creates national database of skills standards in transportation/logistics; develops career/education pathway from secondary technical centers through baccalaureate degree; focuses on technologies related to transportation/logistics, i.e. RFID, GPS, GIS; creates RFID lab at MSCC
NSF Arkansas Delta Science, Technology, Engineering, and Mathematics (STEM) Talent Expansion Project Grant (ADSTEP) \$916,606 September 2006	Targets low participation of African-Americans in STEM programs; completes education/career pathway in Advanced Manufacturing through the baccalaureate level; partnered with UAFS to bring the BAS Degree to the Delta in Fall 2007
U.S. Department of Labor ADWIRED Grant \$5,100,000 January 2007	Supports DOL Arkansas Delta Workforce Innovation in Regional Economic Development initiative; funds talent and economic development strategies for agriculture (renewable energy), TDL, and manufacturing

ADTEC Workforce Development Investments

<p>U.S. Department of Labor Transportation and Logistics Career Pathways Project Grant \$1,350,665 February 2007</p>	<p>Partners with the Arkansas Department of Workforce Services to train 150 commercial truck drivers; articulates with career pathway in transportation and logistics; creates rapid-response workforce training capacity</p>
<p>ADTEC University Center \$7,545,129 Summer 2007</p>	<p>Partnership between ADTEC colleges, ASU, and UA Fort Smith to increase access for placebound and working students in the Arkansas Delta to strategically identified baccalaureate degree programs</p>
<p>U.S. Department of Education Title III Strengthening Institutions Grant \$2,498,817 October 2007</p>	<p>Increases student access to high-demand programs; strengthens faculty/staff development in instructional technologies and strategies for student success; strengthens technology infrastructure for distance/online education; develops online student support services</p>
<p>ADWE TDL Curriculum Development Grant - \$20,000 November 2007</p>	<p>Funds development of TDL curriculum frameworks to support high school component of career pathway</p>
<p>U.S. Department of Labor Community Based Job Training Grant - \$1,986,769 March 2008</p>	<p>Funds capacity at ADTEC community colleges to provide renewable energy programs that are developed by the Center for Renewable Energy Technology Education (CERETE) in Arkansas County. Funds \$600,000 tuition pool for students.</p>
<p>National Science Foundation Planning Grant for National Center of Excellence in TDL May 2008</p>	<p>Funds strategic planning workshops in preparation of completion of a proposal to compete for a \$5 million grant for an NSF National Center of Excellence in TDL</p>
<p>State of Arkansas ADTEC Gap Funding \$569,104 July 2008</p>	<p>Sustains ADTEC Advanced Manufacturing funding</p>
<p>ADWE Renewable Energy Curriculum Development Grant - \$25,000 August 2008</p>	<p>Funds development of curriculum frameworks for high school component of Career Pathway in Renewable Energy Technology</p>

ADTEC Workforce Development Investments

<p>U.S. Department of Labor Technical Assistance Grant - \$60,000 September 2008</p>	<p>Funds technical assistance with Transportation Technology Center programs in Supply Chain/Logistics and with design of the engine testing facility</p>
<p>U.S. Department of Education CCRAA Grant - \$1,199,683 October 2008</p>	<p>Provides funds to renovate Maintenance facility into Allied Health Center</p>
<p>U.S. Department of Labor Community Based Job Training Grant - \$2,000,000 April 2009</p>	<p>Funds capacity at the ADTEC community colleges to develop allied health career pathway programs and train the healthcare workforce. Creates programs for Occupational Therapy Technician, Medical Laboratory Assistant, and Medical Assistant. Provides \$100,000 in tuition support.</p>
<p>ADWE Equipment Grants for Renewable Energy, Adv Mfg, and TDL - \$1,158,975 February 2008-February 2009</p>	<p>Provides equipment funds for secondary technical center programs</p>
<p>DRA Biodiesel Chemical Analysis Lab \$100,000 February 2009</p>	<p>Develops regional capacity to objectively test engine dynamics, durability, and performance utilizing biofuel feedstocks and blends</p>
<p>State of Arkansas ADTEC University Center - \$2,000,000 July 2009</p>	<p>Sustains University Center programs, operations, and personnel</p>
<p>U.S. Department of Commerce EDA Diesel/Biodiesel Technology Center \$2,000,000 September 2009</p>	<p>Partially funds construction of ADTEC Biodiesel Technology Center</p>
<p>ARRA Grant ADTEC - \$1,875,000 October 2009</p>	<p>Restores/stabilizes state funding for ADTEC continuation of Adv Mfg support</p>

ADTEC Workforce Development Investments

U.S. DOL Arkansas Energy Sector Partnership - \$640,513 January 2010	Provides funds to develop and deliver short-term training for energy auditing, weatherization, and other green programs
U.S. DOL/Memphis BioWorks/SETC \$288,199	Provides funds to develop a Chemical Process Operation certificate, leveraging CBJT RET curriculum
Federal Earmark \$350,000 January 2010	Allied Health facility expansion
U.S. DOL HGEI Airframe & Powerplant Aviation Technology Grant - \$3,391,053 February 2010	Develops Career Pathway in A&P Technician training; develops internship program; partners with FedEx
U.S. DOL CBJT Transportation Technology Training -\$4,326,254	Develops regional capacity in hybrid/alternative fuel training for automotive and diesel technology programs
FEMA Safe Room Grant \$784,010 July 2010	Provides funds to partially subsidize construction of a safe room on the MSCC campus
TOTAL INVESTMENT	\$54,883,818



Fund Allocation (Federal) per Industry Sector (since 2005)

- ❖ Transportation, Distribution, and Logistics, \$12,576,065
- ❖ Allied Health, \$3,549,663
- ❖ Advanced Manufacturing, \$6,185,402
- ❖ Agriculture (focus on alternative fuels), \$3,986,769
- ❖ Overlapping, \$14,388,429

2007



**Southern Growth Policies Board
Innovator of the Year**

2008



**U.S. Department of Labor
Recognition of Excellence Award**

2009

BILL & MELINDA
GATES *foundation*

**Recognized by the Workforce Strategy Center
(funded by Gates Foundation)
as one of the best workforce development
strategies in the nation**

2010



**Won the Bellwether Award from the
Community College Futures Assembly**

Return on Investment for Arkansas

\$5.10 for each

State dollar invested