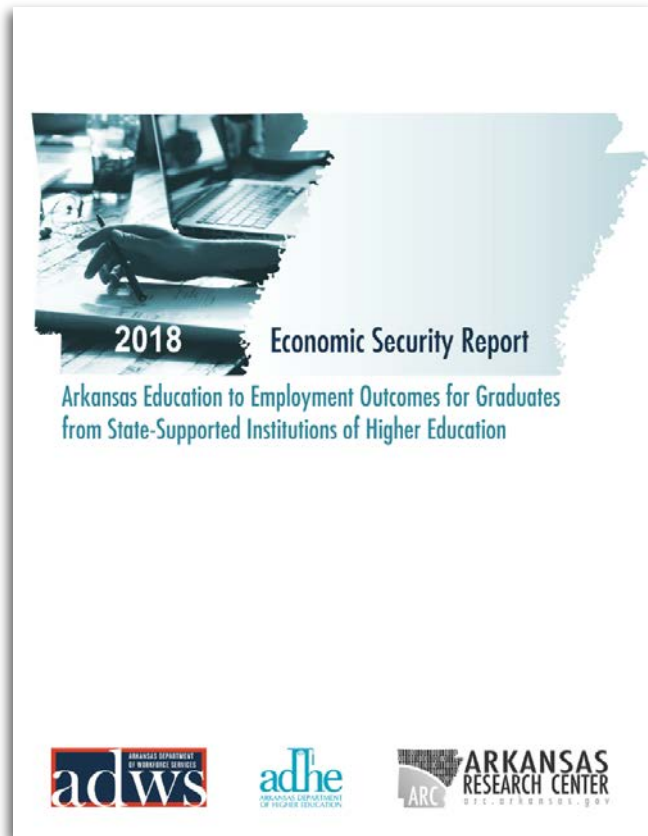


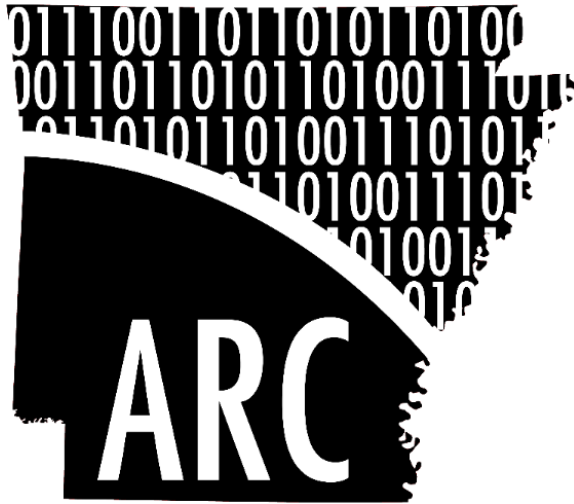
2018 Arkansas Economic Security Report



Dr. Greg Holland, Director
greg.holland@arkansas.gov

ARKANSAS RESEARCH CENTER
UNIVERSITY OF CENTRAL ARKANSAS
arc.arkansas.gov

Annual Trustee Conference
November 16, 2018
“Arkansas Student Success”



ARC Conway office



ARC Little Rock office

ARKANSAS RESEARCH CENTER

University of Central Arkansas

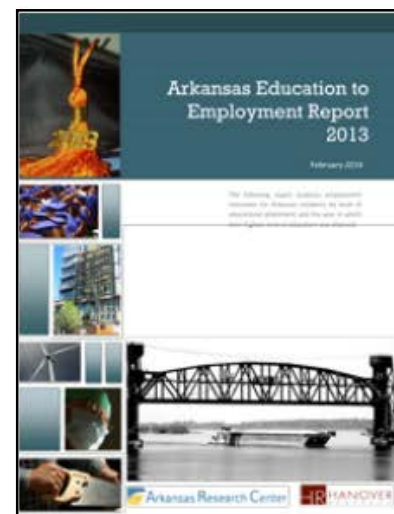
- Established by two U.S. Dept. of Education grants in 2009 (\$2.9M) for the Statewide Longitudinal Data System (SLDS)
- Continued by two U.S. Dept. of Labor grants in 2012-2018 (\$2M) for Workforce Data Quality Initiative (WDQI)
- Ongoing technical contracts with state agencies for education and workforce ADWS, ACE, ADE, ADHE, DHS/DCCECE
- ARC has offices in Conway and Little Rock



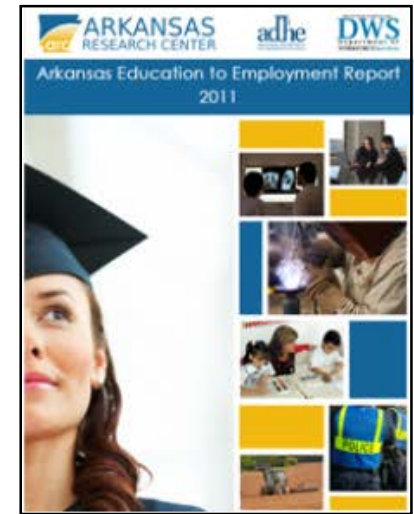
Economic Security Report
2017



Economic Security Report
2016



Arkansas Education to
Employment Report 2013



Arkansas Education to
Employment Report 2011

Integration of millions of records from ADWS, ADHE, ADE, and ACE,
the Arkansas Education to Employment Report and the
Economic Security Report analyze employment outcomes for
Arkansas residents by highest reported level of education
Published in 2011, 2013, 2016, 2017, and 2018

2018 Arkansas Economic Security Report

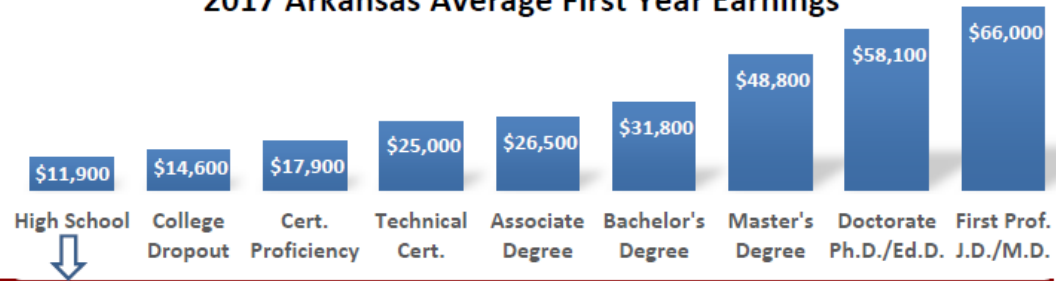
(Arkansas Act 852 of 2015)

Published in early October 2018, contains:

- Data analyzed for 2015-2016 ADHE graduates
- First year earnings from 2016-2017 UI wages
 - Statewide
–and–
 - By Institution
 - By Certificate or Degree Level
 - By CIP Area of Study
- Complete report for 1st Year Earnings
- Two-page summary intended for 7th to 12th grade students and parents



2017 Arkansas Average First Year Earnings



\$11,900 earned in a year might sound like a lot of money... BUT RESEARCH SHOWS ...

A single adult in Arkansas needs to make **\$21,600** each year just to cover all their expenses.

How Long Does College Take To Complete?

Certificates of Proficiency: six months to one year

Technical Certificates: one to two years

Associate Degrees: two to three years

Bachelor's Degrees: four to six years

Master's Degrees: five to eight years

Research and Education Doctors: eight to ten years

Lawyers and Medical Doctors: seven to fourteen years

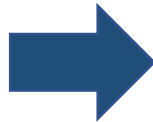


Arkansas Cost of Living



	Single one worker	Family two workers
Per Hour	\$10.40	\$11.75
Per Year	\$21,600	\$48,800
House	\$6,200	\$8,500
Car	\$4,300	\$9,400
Food	\$3,000	\$6,800
Medical	\$2,300	\$6,800
Childcare	\$0	\$5,000
Other	\$2,700	\$4,800
Taxes	\$3,100	\$7,500

Basic info
about wages,
time-to-graduate,
and
cost-of-living
presented
in both
the ESR and
the two-page
summary



2018 Arkansas Economic Security Report

State-Supported Institutions Included:

Arkansas Northeastern College

Arkansas State University Beebe

Arkansas State University Jonesboro

Arkansas State University Mid-South

Arkansas State University Mountain Home

Arkansas State University Newport

Arkansas Tech University

Black River Technical College

College of the Ouachitas

Cossatot Community College of the U A

East Arkansas Community College

Henderson State University

National Park College

North Arkansas College

Northwest Arkansas Community College

Ozarka College

Phillips Community College of the U A

South Arkansas Community College

Southeast Arkansas College

Southern Arkansas University - Magnolia

Southern Arkansas University - Tech

U A Community College at Batesville

U A Community College at Hope

U A Community College at Morrilton

University of Arkansas Fayetteville

University of Arkansas - Fort Smith

University of Arkansas - Pulaski Technical College

University of Arkansas - Rich Mountain

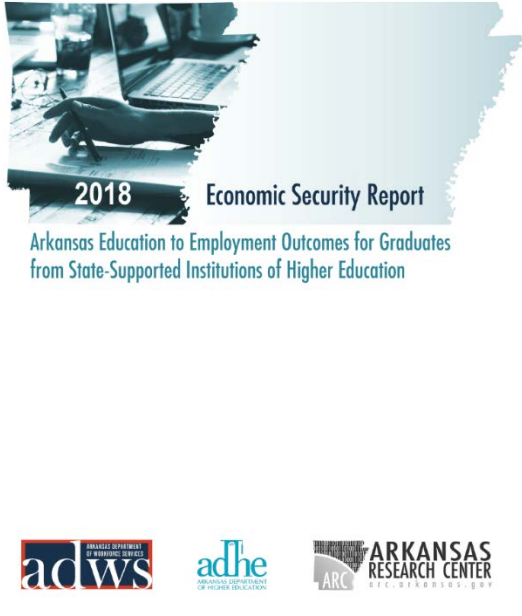
University of Arkansas at Little Rock

University of Arkansas at Monticello

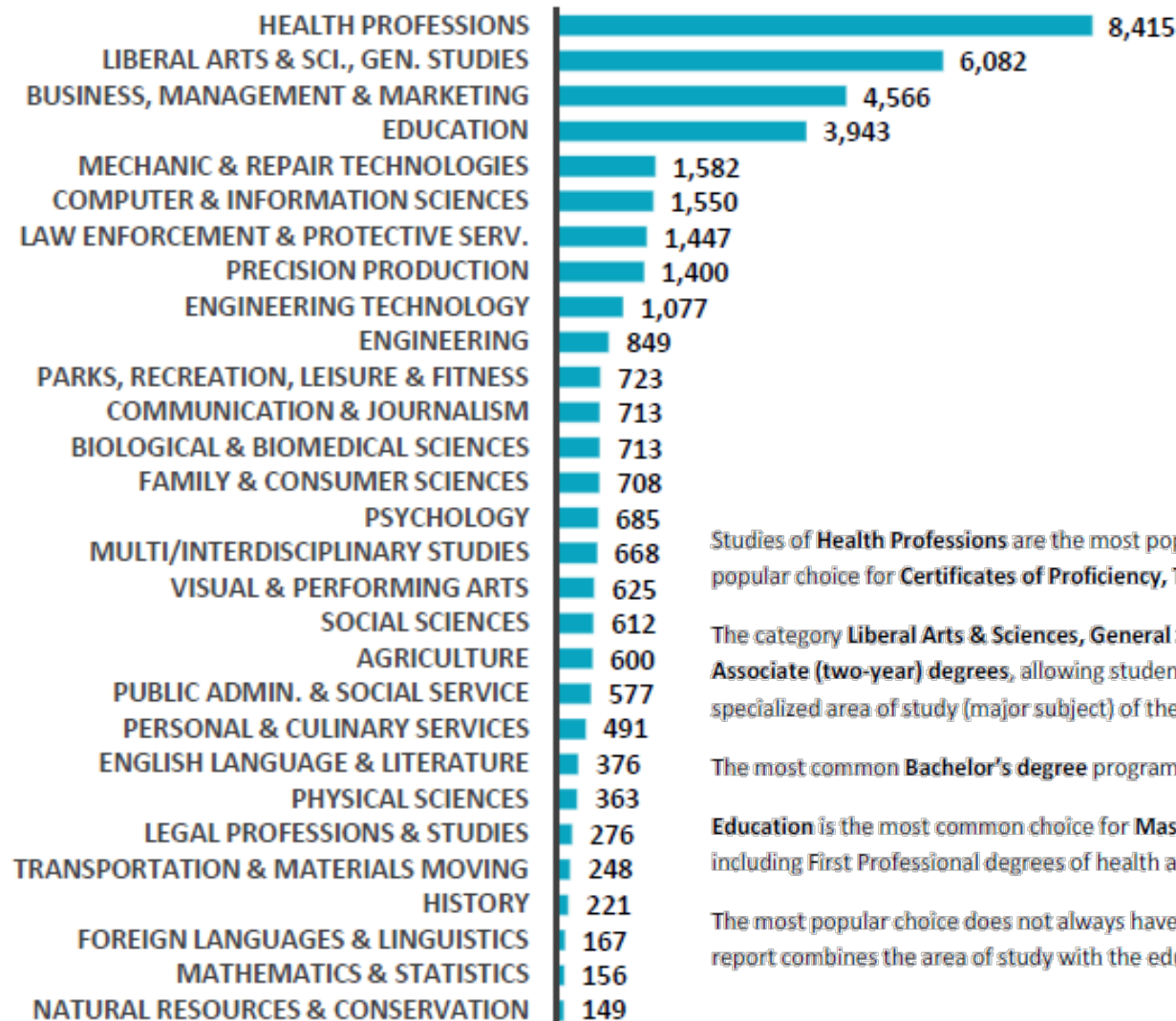
University of Arkansas at Pine Bluff

University of Arkansas for Medical Sciences

University of Central Arkansas



2017 Arkansas Graduates (all levels of higher education)



Studies of **Health Professions** are the most popular over all degree areas as well as being the most popular choice for **Certificates of Proficiency, Technical Certificates, and First Professional degrees**.

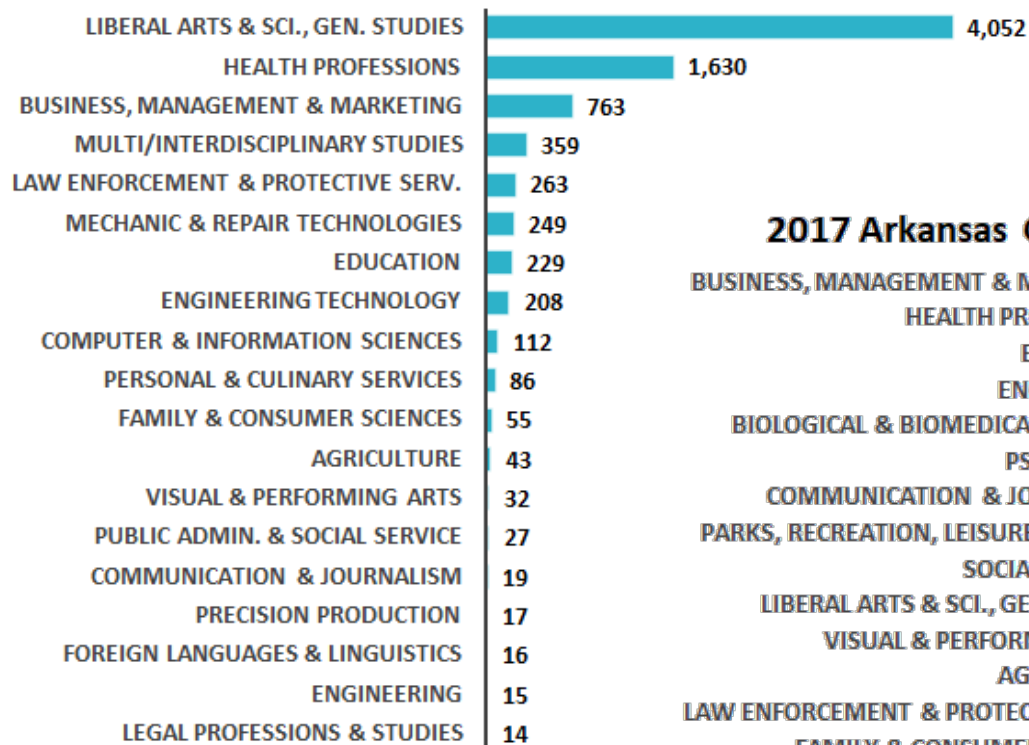
The category **Liberal Arts & Sciences, General Studies** reflects the most common choice for the **Associate (two-year) degrees**, allowing students to pursue their Bachelor's (four-year) degree in the specialized area of study (major subject) of their choice.

The most common **Bachelor's degree** programs are in **Business, Management, and Marketing**.

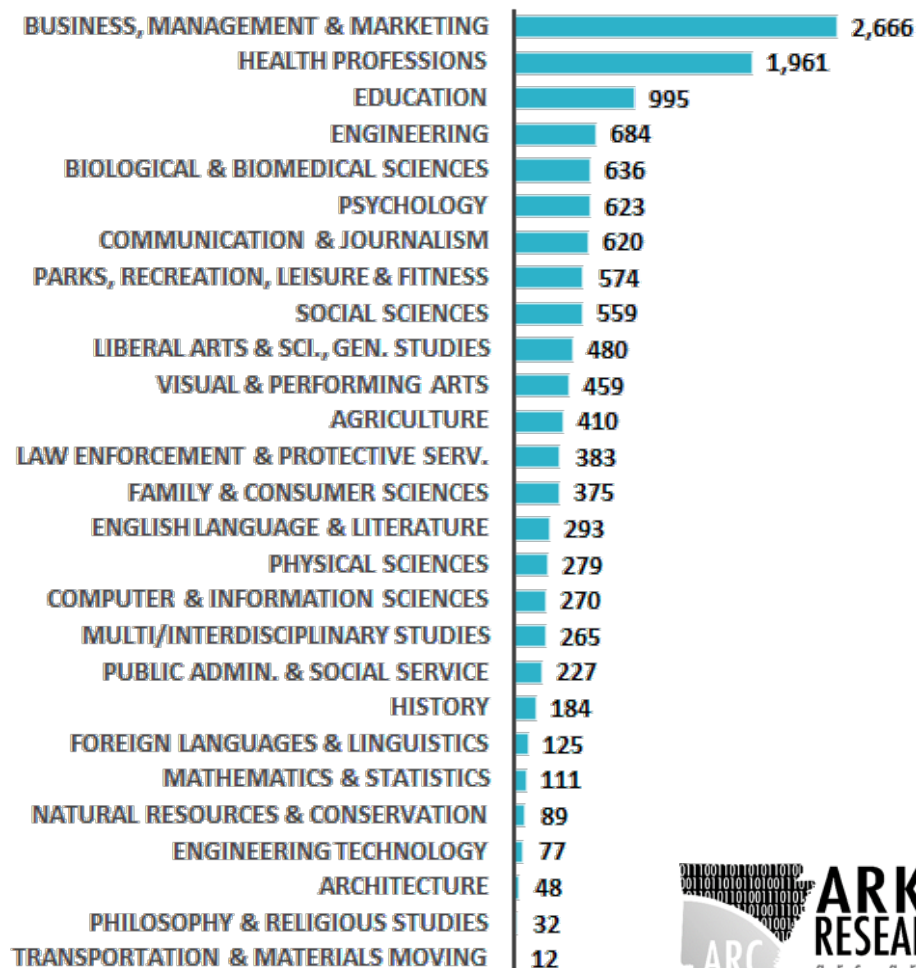
Education is the most common choice for **Master's Degrees, Specialists, and Doctoral programs** (not including First Professional degrees of health and legal).

The most popular choice does not always have the highest average earnings. The next section of the report combines the area of study with the education level to evaluate the first-year earnings details.

2017 Arkansas Graduates (Associate Degree)



2017 Arkansas Graduates (Bachelor's Degree)



These two lists created for the November 16, 2018 presentation; not included in the 2018 ESR.

Arkansas Department of Workforce Services

High-level description for Unemployment Insurance wage data

- Employers
 - Payroll Address
 - NAICS (Industry) Code
 - Quarterly Wage Records
- Employees
 - Quarterly Earnings Reported
 - Employer
 - Date of Birth (if provided)
 - Claims Address (if any)
- Dates
 - Approx. 2001 to 6-months ago
- Geography
 - Arkansas, and only if reported to UI
 - No Federal Employers, Military, or neighboring states included

Arkansas Department of Workforce Services

Unemployment Insurance wage data limitations

- Arkansas wages only and only if employer reported to UI
- No Federal Employers, Military, or neighboring states included
- Quarterly earnings do not show hours worked or hourly wage, only total dollars
- Full-time vs part-time worker is not indicated by total quarterly dollars
- If an employee address is provided, it is from a claim (if any) and may be 17+ years ago
- A single employer address is provided, but workers may not be at headquarters or payroll office
- Occupation code (SOC) is not provided for most records (impacts CIP, SOC, NAICS studies)
- Date of birth is not provided for most records (impacts experience and retirement estimates)
- Gender is not provided for studies of underserved industries or job retention
- Employees may work multiple jobs, but not all may report to UI

Areas of Study (Degree names vs. CIP)

Institutions of higher education choose similar, but not identical, names for programs of study and institutional degree codes.

The CIP (Classification of Instructional Programs) codes were developed by the U.S. Dept. of Education to standardize these differences.

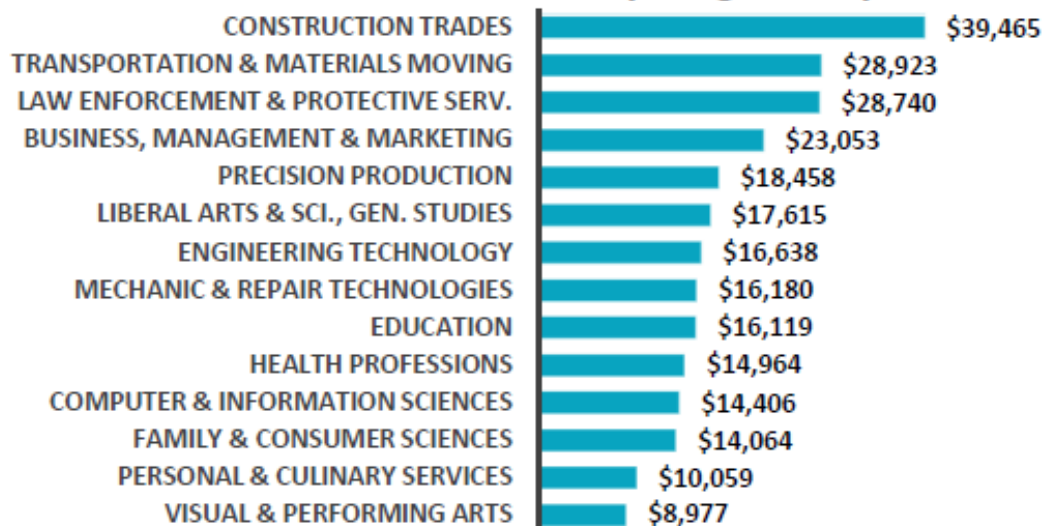
Arkansas state-supported institutions are reporting all of these degree names:

Administrative Assistant
Administrative Office Technology
Administrative Services
Administrative Services Technology
Administrative Support Technology
Business Technology
Clerical Services
Clerical Support
Management
Office Administration
Office Occupations
Office Support
Office Support Specialist
Office Technology
Secretarial/Word Processing
Word Processing/Desktop Publishing

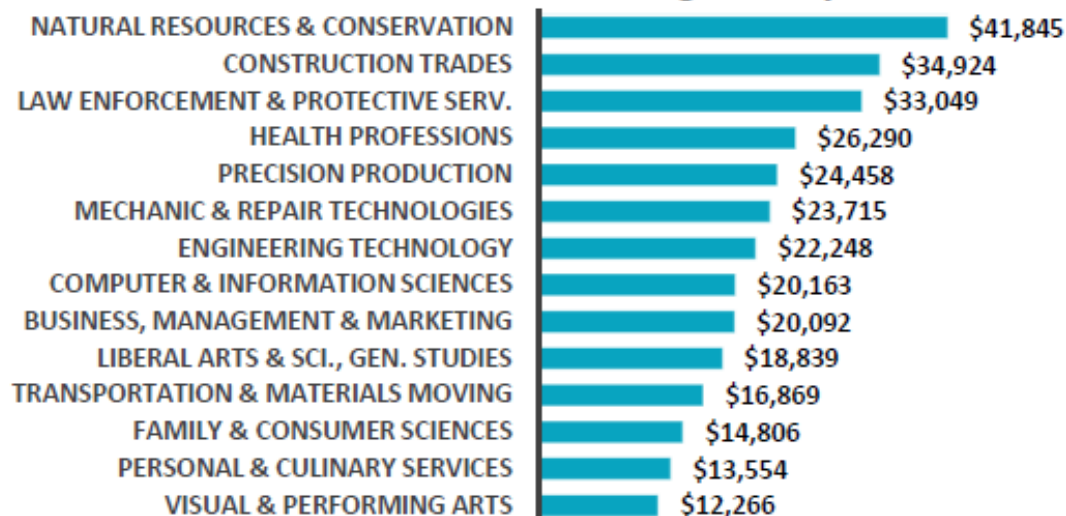
All of these have the same CIP Code:

Administrative Assistant and
Secretarial Science, General (52.0401)

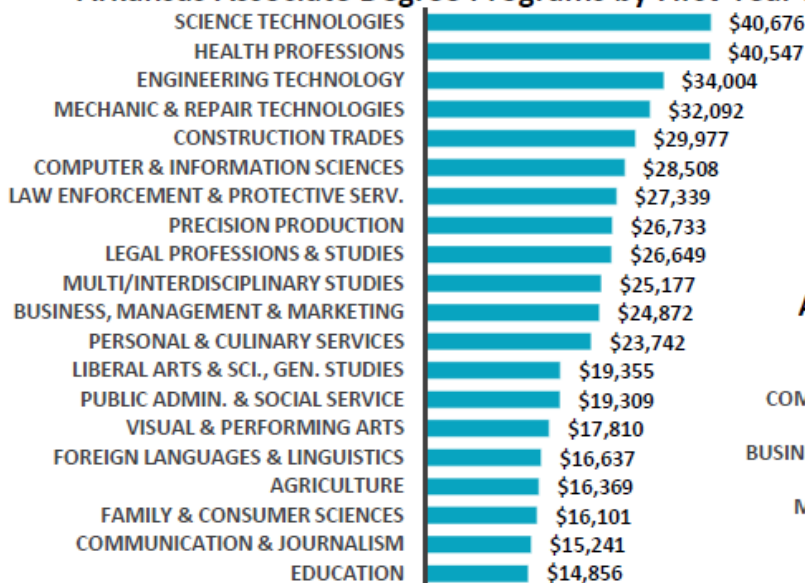
Arkansas Certificate of Proficiency Programs by First-Year Earnings



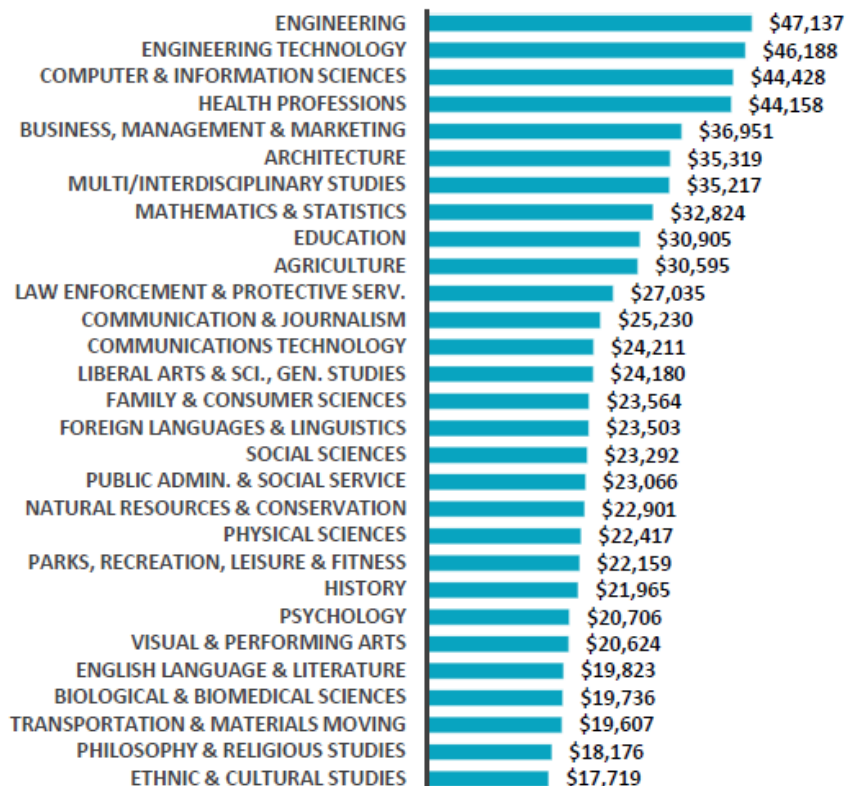
Arkansas Technical Certificate Programs by First-Year Earnings



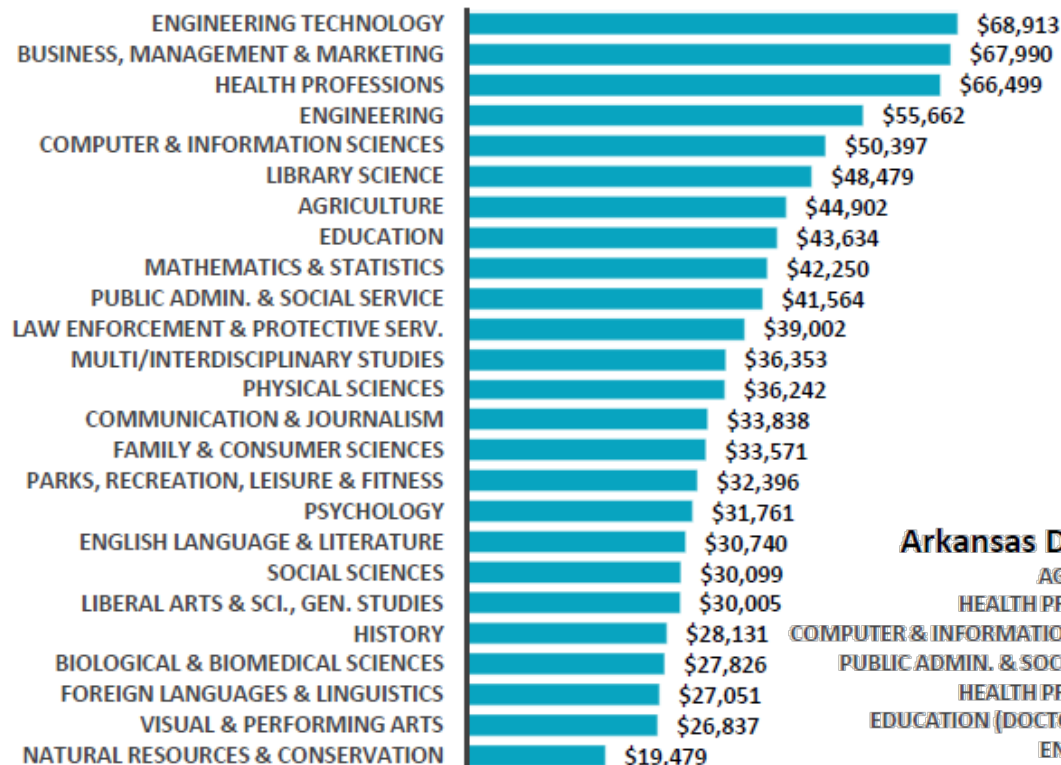
Arkansas Associate Degree Programs by First-Year Earnings



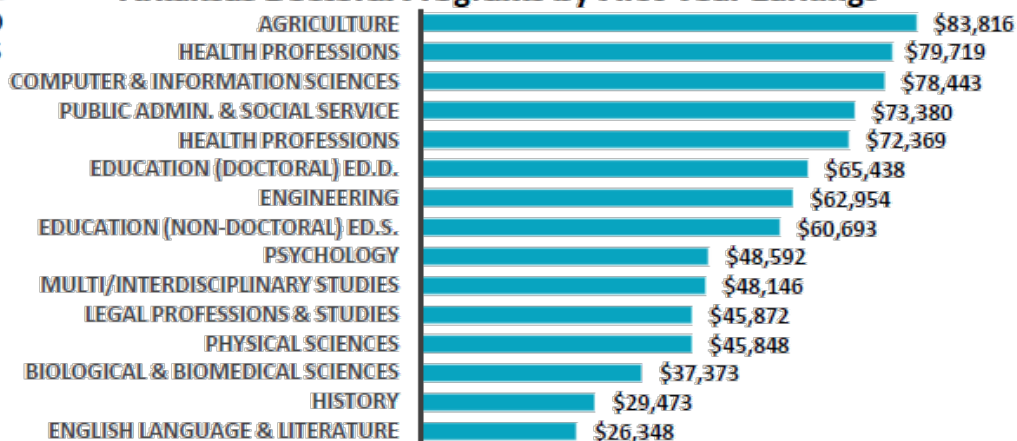
Arkansas Bachelor's Degree Programs by First-Year Earnings



Arkansas Master's Degree Programs by First-Year Earnings



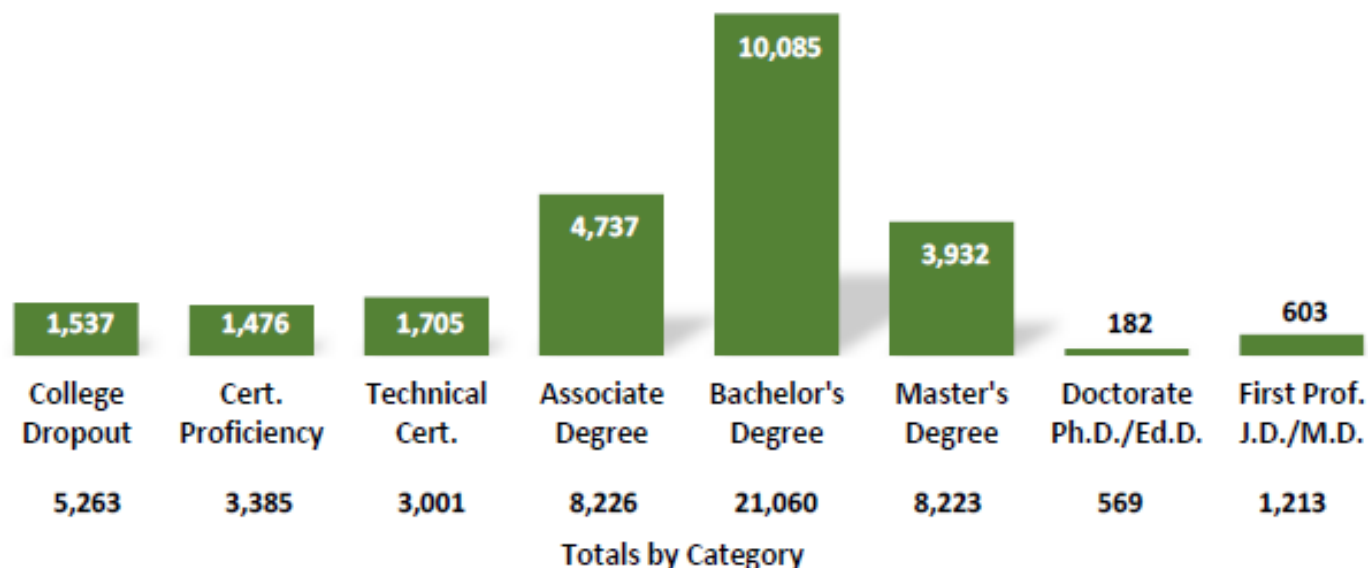
Arkansas Doctoral Programs by First-Year Earnings



First Year Arkansas Employment Rates

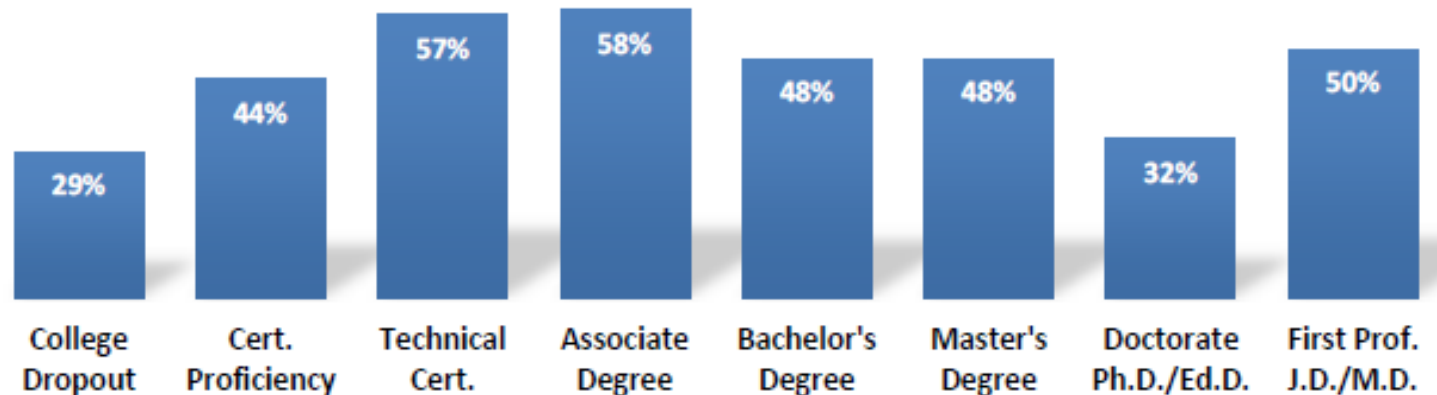
Earnings reported to the Arkansas Department of Workforce Services are quarterly totals, which do not include the hourly wage or the part-time/full-time status. Graduates still enrolled as students were also excluded. To estimate the number (#) and percentage (%) of full-time workers in the first year following graduation, a minimum 2017 total of \$13,260 with wages reported in all four quarters was required. \$13,260 represents full-time employment of at least 30 hours per week for 52 weeks at \$8.50 per hour.

2017 First Year Full-Time Employment # Reported in Arkansas



Additional employed graduates who do not report to the Arkansas Department of Workforce Services include federal employees, military, many self-employed, and anyone employed outside of Arkansas. Because of these other employment potential situations, these percentages should not be used to calculate unemployment rates.

2017 First Year Full-Time Employment % Reported in Arkansas



The employment rates are also impacted by the diversity of students in higher education. Besides Arkansas residents, many college students are from other states and from other countries. Upon completing their degrees, they may return to their communities outside of Arkansas to work.

Arkansas Example College - 2018 Economic Security Report

Certificates of Proficiency	2015 and 2016		2016 and 2017 First Year Employment Reported in Arkansas			
		Graduates	% Employed	Average	% Full-Time	Full-Time Avg.
	ALL AREAS OF STUDY	313	79%	\$23,707	43%	\$40,133
CONSTRUCTION TRADES						
	CONSTRUCTION TRADES (46.0000)	50	80%	\$43,445	54%	\$57,836
HEALTH PROFESSIONS						
	Emergency Medical Technology/Technician (EMT Paramedic) (51.0904)	28	86%	\$35,065	58%	\$56,643
	Nursing Assistant/Aide and Patient Care Assistant/Aide (51.3902)	142	84%	\$12,599	36%	\$20,114
	Phlebotomy Technician/Phlebotomist (51.1009)	50	64%	\$13,205	29%	\$21,866
PRECISION PRODUCTION						
	Welding Technology/Welder (48.0508)	18	89%	\$42,627	64%	\$47,992

- ADHE requires at least 11 students to be presented in ESR
 Example: 8 graduates in 2015 with 2016 wages,
 5 graduates in 2016 with 2017 wages,
 13 graduates for 2015-2016 with 1st year wages reported in ESR
- ADWS requires at least 3 wages to be aggregated for presentation

Arkansas Example College - 2018 Economic Security Report

		2015 and 2016	2016 and 2017 First Year Employment Reported in Arkansas			
Certificates of Proficiency		Graduates	% Employed	Average	% Full-Time	Full-Time Avg.
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PRECISION PRODUCTION						
	Welding Technology/Welder (48.0508)	18	89%	\$42,627	64%	\$47,992

- The actual number of graduates for 2015 and 2016 was likely higher than 313.
- The reported number of 313 does not include graduates who can be identified with a higher certificate or degree.
- ESR wage outcomes are not representative if the student has higher education when they receive First Year employment and earnings.

Arkansas Example College - 2018 Economic Security Report

Certificates of Proficiency		2015 and 2016	2016 and 2017 First Year Employment Reported in Arkansas			
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PRECISION PRODUCTION	Welding Technology/Welder (48.0508)	18	80%	\$42,627	64%	\$47,992

Totals 288

A difference of 25 graduates reported (288 vs. 313).
 Additional areas of study did not have at least 11 total for 2015 and 2016,
 but all 25 can be included in the ALL AREAS OF STUDY total of 313

ESR DATA EXPANSION

(underway)

**COMING
SOON!**

	1 st Year Wages	5 th Year Wages	10 th Year Wages	15 th Year Wages	20 th Year Wages
2015-2016 ADHE grads	2016-2017				
2011-2012 ADHE grads	2012-2013	2016-2017			
2006-2007 ADHE grads	2007-2008	2011-2012	2016-2017		
2001-2002 ADHE grads	2002-2003	2006-2007	2011-2012	2016-2017	
1996-1997 ADHE grads		2001-2002	2006-2007	2011-2012	2016-2017

ESR Data Expansion

Considerations

5th, 10th, 15th, and 20th year wages can be:

- All for the same group of ADHE graduates (meaning that 5th year earnings were from 15 years ago)

-or-

- For different groups of ADHE graduates all dollars are 2016-2017 wages, but different graduating classes over 20 years

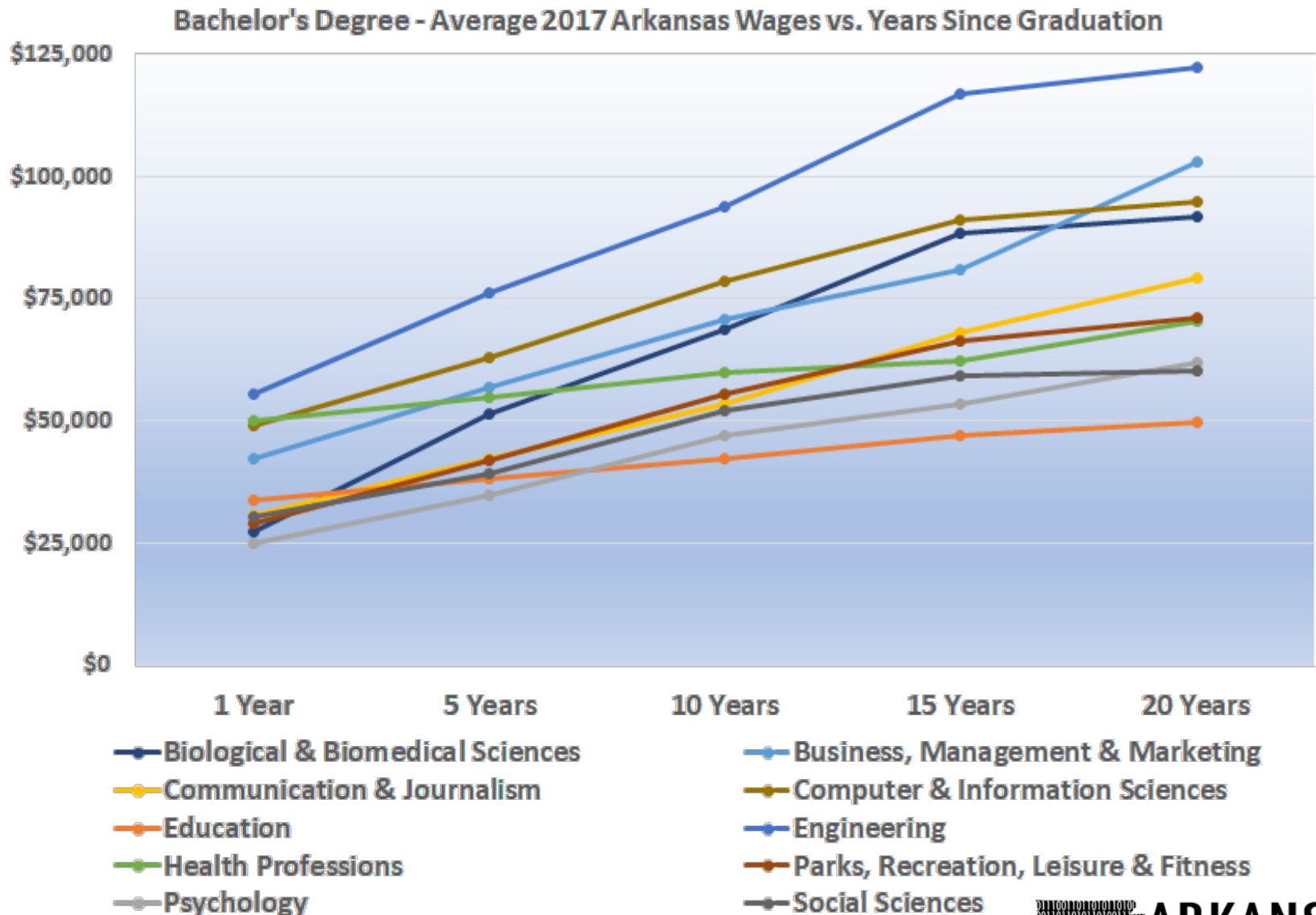
	1 st Year Wages	5 th Year Wages	10 th Year Wages	15 th Year Wages	20 th Year Wages
2015-2016 ADHE grads	2016-2017				
2011-2012 ADHE grads	2012-2013	2016-2017			
2006-2007 ADHE grads	2007-2008	2011-2012	2016-2017		
2001-2002 ADHE grads	2002-2003	2006-2007	2011-2012	2016-2017	
1996-1997 ADHE grads		2001-2002	2006-2007	2011-2012	2016-2017

	1 st Year Wages	5 th Year Wages	10 th Year Wages	15 th Year Wages	20 th Year Wages
2015-2016 ADHE grads	2016-2017				
2011-2012 ADHE grads	2012-2013	2016-2017			
2006-2007 ADHE grads	2007-2008	2011-2012	2016-2017		
2001-2002 ADHE grads	2002-2003	2006-2007	2011-2012	2016-2017	
1996-1997 ADHE grads		2001-2002	2006-2007	2011-2012	2016-2017

Toward a “lifetime earnings” calculation:

- Individuals may not work all years of a 20-year span, even if we have average wages for groups of graduates over 20 years.
- Actual “lifetime earnings” would require 2nd, 3rd, 4th, 6th, 7th, etc., yearly wages by individual graduate, totaled for the group of graduates, and then averaged.

ESR DATA EXPANSION *SNEAK PEEK!*



ESR DATA EXPANSION

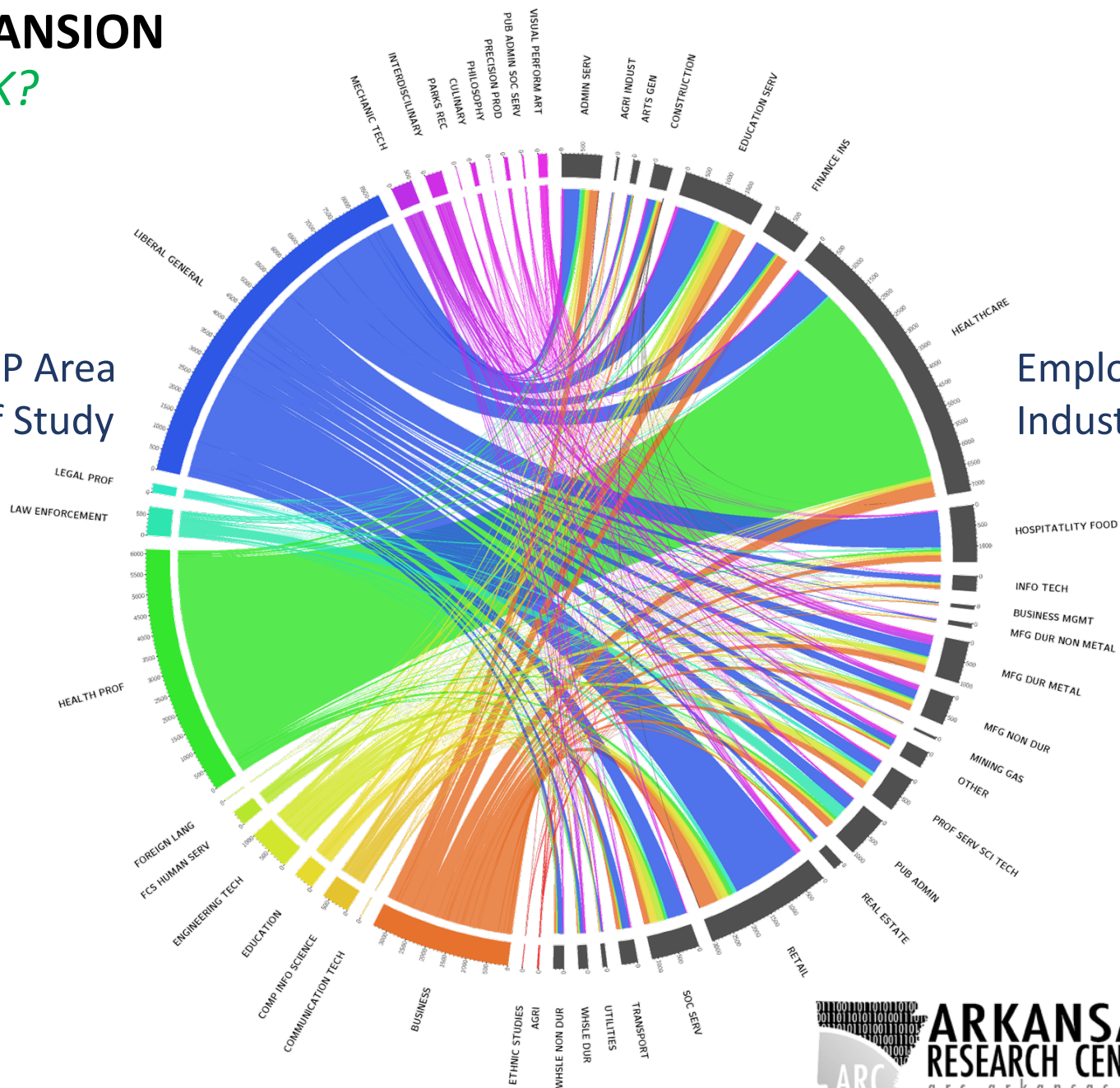
FUTURE WORK?

Advanced Visualizations (Chord Diagram)

CIP Area
of Study

Employer
Industry

Associate
Degree
Area to
Industry



2018 Arkansas Economic Security Report

Quick download: arc.arkansas.gov click **Research** click **Economic Security Report 2018**



Special Thanks To ADHE:
Dr. Maria Markham
Nichole Abernathy
Sonia Hazelwood
Beth Stewart
Ken Wall

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Dr. Greg Holland, Director
greg.holland@arkansas.gov

The ESR is also available at <https://www.dws.arkansas.gov/news-info/dws-pub/>