



Labor Market Information for Job Seekers

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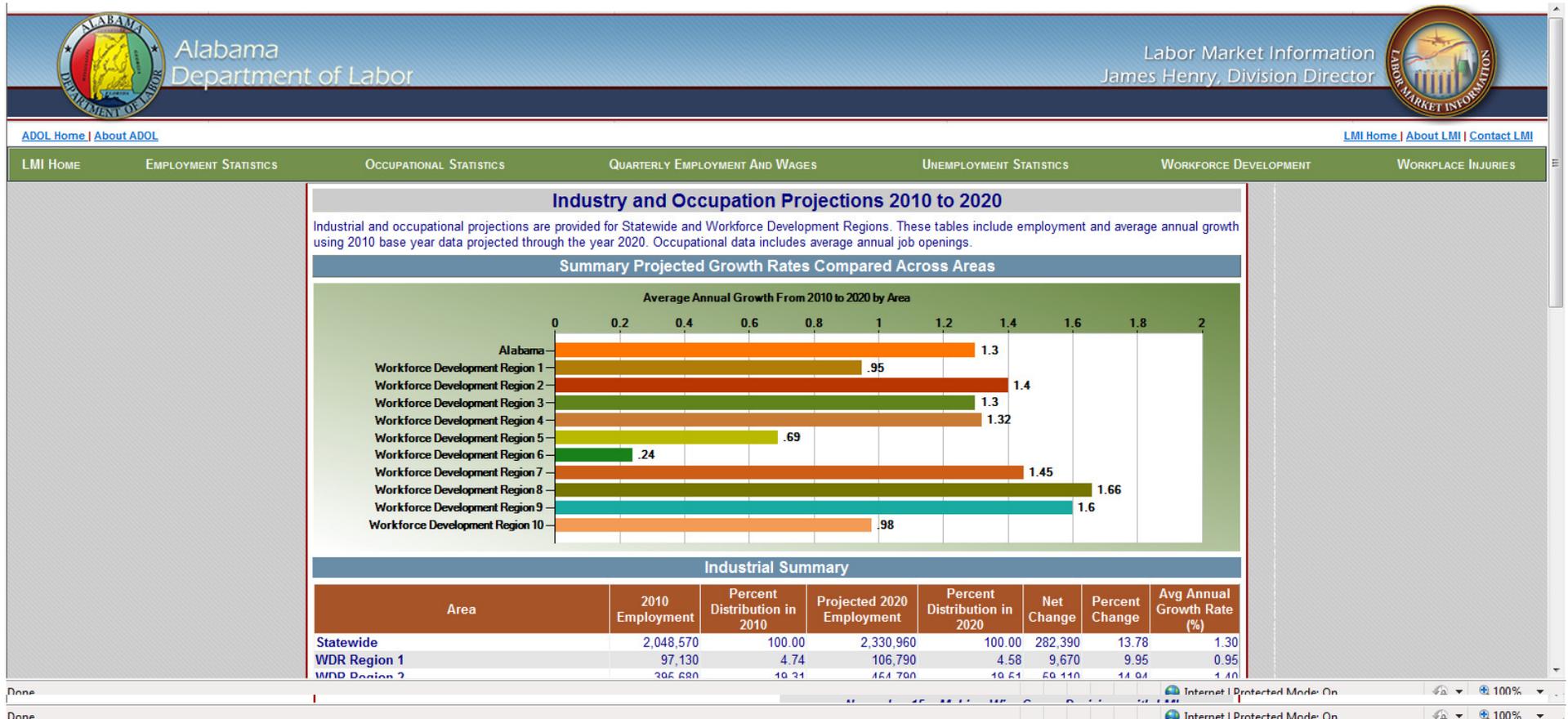
Common jobseeker questions that LMI can help answer

- ▶ What kinds of jobs are growing?
- ▶ How much should I be getting paid?
- ▶ What do I need in order to prepare for my career?
- ▶ Where can I get relevant education and training to help me prepare for my career?

What kinds of jobs are growing?

- ▶ AL LMI produces bi-annual *industry and occupational projections* that give some indication about where opportunities are growing or diminishing in the economy.
- ▶ Employment – Base year & 10 years forward
 - ▶ 2010-20 projects were released in July
 - ▶ www2.dir.state.al.us/Projections/default.aspx
- ▶ Average Annual Job Openings
 - ▶ Total Openings - Numeric change in employment
 - ▶ Growth – Newly created jobs
 - ▶ Replacement – Number of jobs that will arise due to workers who change occupations, retire, etc

Projections can be found under the 'Workforce Development' tab of the AL LMI website



For less detail and greater emphasis on fast growing jobs, go to the Alabama 'Hot 40' demand occupations

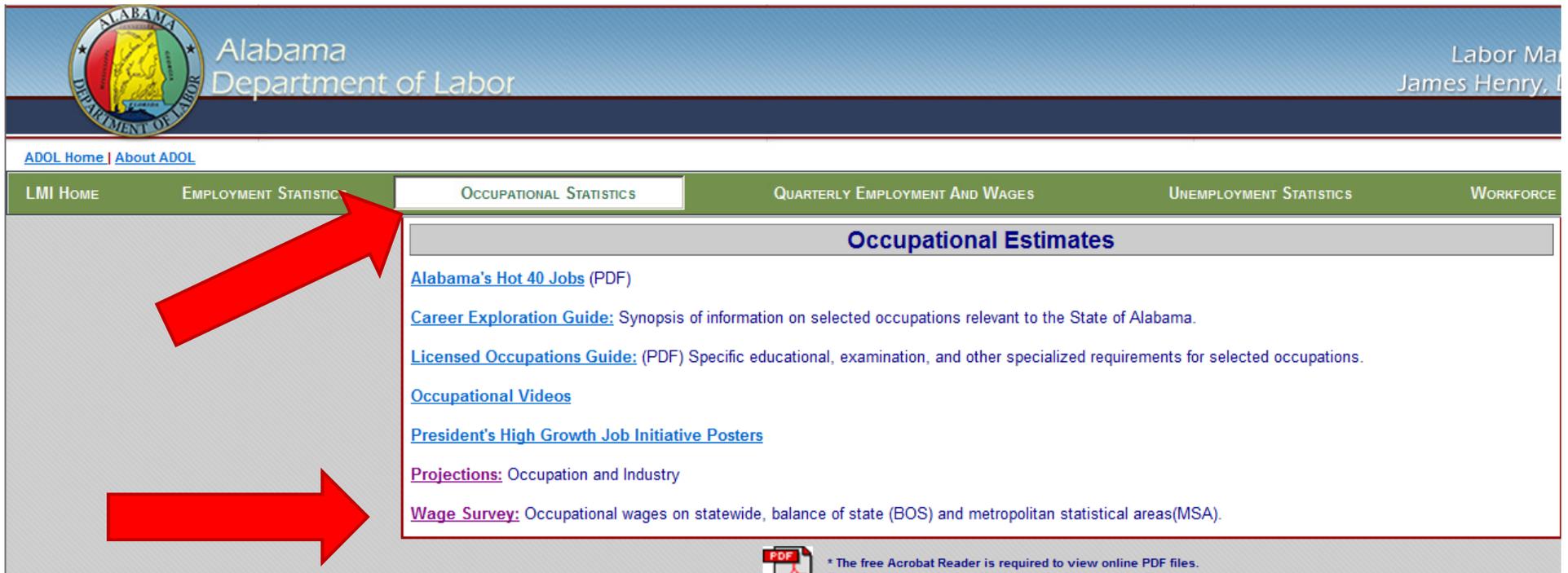
- ▶ Like the projections, this can also be found under the 'Workforce Development' tab of the Alabama LMI website
 - ▶ http://www2.dir.state.al.us/OES/OES_Posters/HotJobs.pdf
- ▶ Occupations listed according to the educational requirements (e.g., 4-year, 2-year, experience, etc.)
- ▶ Provides information on:
 - ▶ Knowledge and skills
 - ▶ Wages
 - ▶ Job description
 - ▶ Average annual openings



How much should I be getting paid?

- ▶ This information is available through the Occupational Employment Statistics (OES)
- ▶ Occupational **Wages** (Hourly and/or Annual)
 - ▶ “**Mean**” – Average wage
 - ▶ “**Median**” - The point at which 50% of the employment was below this wage and 50% was above
 - ▶ “**Entry**” – The average of the lowest third of reported wages for the occupation
 - ▶ “**Experience**” – The average of the upper two-thirds of reported wages for the occupation

Wage data can be found under the 'Occupational Statistics' tab of the AL LMI website



The screenshot displays the Alabama Department of Labor website. At the top left is the Alabama Department of Labor logo, and to its right is the text "Alabama Department of Labor". On the top right, it says "Labor Market Information System" and "James Henry, Director". Below the header is a navigation bar with the following tabs: "LMI Home", "EMPLOYMENT STATISTICS", "OCCUPATIONAL STATISTICS" (highlighted with a red arrow), "QUARTERLY EMPLOYMENT AND WAGES", "UNEMPLOYMENT STATISTICS", and "WORKFORCE". Below the navigation bar is a section titled "Occupational Estimates". This section contains several links: "Alabama's Hot 40 Jobs (PDF)", "Career Exploration Guide: Synopsis of information on selected occupations relevant to the State of Alabama.", "Licensed Occupations Guide: (PDF) Specific educational, examination, and other specialized requirements for selected occupations.", "Occupational Videos", "President's High Growth Job Initiative Posters", "Projections: Occupation and Industry", and "Wage Survey: Occupational wages on statewide, balance of state (BOS) and metropolitan statistical areas(MSA)". A red arrow points to the "Wage Survey" link. At the bottom right of the page, there is a small PDF icon and a note: "* The free Acrobat Reader is required to view online PDF files." A second red arrow points to the "Occupational Statistics" tab in the navigation bar.

What if I am moving out of Alabama?

- ▶ The US Bureau of Labor Statistics is the source for national wage information
 - ▶ www.bls.gov/oes
- ▶ BLS produces wage rate estimates for the Mean, Median, 10th, 25th, 75th & 90th percentile wages
 - ▶ Annual and Hourly

Occupation: Welders, Cutters, Solderers, and Brazers (SOC code 514121)						
Period: May 2011						
Area name	Hourly mean wage	Hourly 10th percentile wage	Hourly 25th percentile wage	Hourly median wage	Hourly 75th percentile wage	Hourly 90th percentile wage
Birmingham-Hoover, AL	\$16.78	\$12.42	\$13.87	\$16.26	\$18.84	\$22.42
Atlanta-Sandy Springs-Marietta GA	\$16.81	\$11.13	\$13.35	\$16.22	\$19.19	\$23.47
Chattanooga TN-GA	\$18.55	\$13.61	\$16.10	\$18.87	\$21.22	\$22.62

SOC code: Standard Occupational Classification code -- see <http://www.bls.gov/soc/home.htm>

Data extracted on November 30 2012

What do I need to do in order to prepare for my career?

- ▶ O*Net is premier resource for learning about jobs
 - ▶ Knowledge, Skills and abilities
 - ▶ Job responsibilities
 - ▶ Wage and educational information
- ▶ MyNextMove, also available through O*Net, guides people to possible careers options based on their interests.
 - ▶ Mynextmove.org
- ▶ Career Clusters from the National Association of State Directors of Career Technical Education Consortium (NASDCTEC)

O*NET OnLine (www.onetonline.org)



O*NET OnLine
A proud partner of the americanjobcenter network

Help Find Occupations Advanced Search Crosswalks Share O*NET Sites

My Next Move and My Next Move for Veterans

Find occupations by Key Words or SOC Code



Build your future with O*NET OnLine.

Welcome to your tool for career exploration and job analysis!

O*NET OnLine has detailed descriptions of the world of work for use by job seekers, workforce development and HR professionals, students, researchers, and more!

What is O*NET?



What's New?

Tools and Technology database updated

Learn More

Get O*NET news by [email](#) or [RSS](#).



I want to be a...

Start the career you've dreamed about, or find one you never imagined.

Find It Now

at My Next Move

Occupation Search Keyword or O*NET-SOC Code:



Find Occupations

Browse groups of similar occupations to explore careers. Choose from industry, field of work, science area, and more.

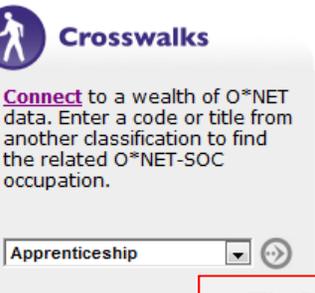
Bright Outlook



Advanced Search

Focus on occupations that use a specific tool or software. Explore occupations that need your skills.

Browse by O*NET Data:



Crosswalks

Connect to a wealth of O*NET data. Enter a code or title from another classification to find the related O*NET-SOC occupation.

Apprenticeship

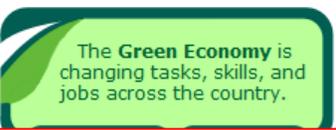


ATTN: VETERANS

Put your military skills and experience to work in civilian life. Learn how at:

MY NEXT MOVE FOR VETERANS

Get Started



The Green Economy is changing tasks, skills, and jobs across the country.

Find occupations by Career Cluster, Industry, Bright Outlook, Green Economy Sector or STEM Discipline

Find occupations by required Abilities, Interests, Knowledge, Skills, Work Activities, Technologies, etc.

Summary Report for: 51-4121.06 - Welders, Cutters, and Welder Fitters

Use hand-welding or flame-cutting equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

Sample of reported job titles: Welder, Welder-Fitter, Fabricator, Maintenance Welder, Mig Welder, Sub Arc Operator

View report:	Summary	Details	Custom
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[Tasks](#) | [Tools & Technology](#) | [Knowledge](#) | [Skills](#) | [Abilities](#) | [Work Activities](#) | [Work Context](#) | [Job Zone](#) | [Education](#) | [Interests](#) | [Work Styles](#) | [Work Values](#) | [Related Occupations](#) | [Wages & Employment](#) | [Additional Information](#)

Tasks

- Weld components in flat, vertical, or overhead positions.
- Operate safety equipment and use safe work habits.
- Lay out, position, align, and secure parts and assemblies prior to assembly, using straightedges, combination squares, calipers, and rulers.
- Examine workpieces for defects and measure workpieces with straightedges or templates to ensure conformance with specifications.
- Recognize, set up, and operate hand and power tools common to the welding trade, such as shielded metal arc and gas metal arc welding equipment.
- Weld separately or in combination, using aluminum, stainless steel, cast iron, and other alloys.
- Clamp, hold, tack-weld, heat-bend, grind or bolt component parts to obtain required configurations and positions for welding.
- Select and install torches, torch tips, filler rods, and flux, according to welding chart specifications or types and thicknesses of metals.
- Ignite torches or start power supplies and strike arcs by touching electrodes to metals being welded, completing electrical circuits.
- Connect and turn regulator valves to activate and adjust gas flow and pressure so that desired flames are obtained.

[back to top](#)

Tools & Technology

Tools used in this occupation:

Blow torches — Motorized cutting torches; Pattern cutting torches; Welding torches

Gas welding or brazing or cutting apparatus — Brazing equipment; Heliarc welding equipment; Oxyacetylene welding equipment; Portable gas operated arc welders

Manlift or personnel lift — Hydraulic truck lifts; Swing stages

Welding masks — Hand shields; Welding shields

What do I need to do in order to prepare for my career?

- ▶ Career clusters provide a framework for connecting occupations
- ▶ 16 career clusters were developed by the *National Association of State Directors of Career Technical Education Consortium (NASDCTEC)*
 - ▶ The 16 career clusters contain 79 different career pathways
 - ▶ <http://www.careertech.org/career-clusters/glance/careerclusters.html>
- ▶ Career cluster posters on the AL LMI website
 - ▶ <http://www2.dir.state.al.us/workforcedev/MapsandPosters/CareerClusters/MfgCC.pdf>
 - ▶ Found under the 'Workforce Development' Tab

Manufacturing Process Development

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/or Degree Major Courses for Manufacturing Production Process Development Pathway	SAMPLE Occupations Relating to This Pathway	
Interest Inventory Administered and Plan of Study Initiated for all Learners									
SECONDARY	9	English/ Language Arts I	Algebra I	Earth or Life or Physical Science	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	• Introduction to Manufacturing Occupations	<ul style="list-style-type: none"> ▶ Design Engineer ▶ Electrical and Electronic Technician and Technologist ▶ Electronics Engineer ▶ Engineering and Related Technician and Technologist ▶ Industrial Engineer ▶ Labor Relations Manager ▶ Manufacturing Engineer ▶ Manufacturing Technician ▶ Power Generating and Reactor Plant Operator ▶ Precision Inspector, Tester and Grader ▶ Process Improvement Technician ▶ Production Manager ▶ Purchasing Agent ▶ Supervisor 	
	10	English/ Language Arts II	Geometry	Biology	U.S. History		• Information Technology Applications		
	11	English/ Language Arts III	Algebra II	Chemistry	World History Economics		• Employment in Manufacturing Occupations		
	College Placement Assessments-Academic/Career Advisement Provided								
	12	English/ Language Arts IV	Trigonometry or Statistics or other math course	Physics	Psychology	• Applications in Manufacturing Technology			
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.									
POSTSECONDARY	Year 13	English Composition English Literature	Algebra	Chemistry Physics	American Government Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	• Quality Assurance Concepts and Techniques • Safety in the Workplace • Strategies to Ensure Continuous Improvement in Manufacturing		
	Year 14	Speech/ Oral Communication	Computer Applications	Biological Science Physical Science	American History Geography		• Manufacturing Production Processes • Design for Manufacturability		
	Year 15	Continue courses in the area of specialization.					• Continue Courses in the Area of Specialization		
	Year 16						• Complete Manufacturing Major (4-Year Degree Program)		

How do I find education and training opportunities?

- ▶ Two on-line resources to consider include one Federal and one state
- ▶ The College Navigator from the National Center for Education Statistics
 - ▶ Searchable by a number of different characteristics including, location, program type, and Classification of Instructional Programs (CIP) codes
 - ▶ <http://nces.ed.gov/collegenavigator/>
- ▶ Alabama Career and Technical Education
 - ▶ Searchable by career cluster
 - ▶ <http://www.alcareertech.org/clustermap/resources.html>

NCES College Navigator

ies INSTITUTE OF EDUCATION SCIENCES

NATIONAL CENTER FOR EDUCATION STATISTICS

Enter search terms here

Publications & Products | Surveys & Programs | Data & Tools | Fast Facts | School Search | News & Events | About Us

COLLEGENavigator English [Español](#) [About](#)

Name of School
Type name of school here

States (use map for more than 1 state)
No Preference | Alabama | Alaska | [Use Map](#)

ZIP Code Miles from

Programs/Majors
0 Items Selected | [Browse for Programs](#)

Level of Award ?
 Certificate Associate's
 Bachelor's Advanced

Institution Type ?
 Public 4-year
 Private non-profit 2-year
 Private for-profit < 2-year

[+ MORE SEARCH OPTIONS](#)

[Show Results](#)

[Guide Me](#) | [Clear Search](#)

Find the right college for you

[Guide Me](#)

- » Refine your search with *More Search Options* to select additional search criteria.
- » Build a list of schools using *My Favorites* for side-by-side comparisons.
- » Pinpoint school locations with an *interactive map*.
- » Export search results into a *spreadsheet*.
- » Save your session including search options and favorites.
- » [Add College Navigator](#) to your browser search bar.

College Affordability and Transparency Center 
Browse lists of institutions with the highest and lowest tuition & fees and net price. [» GO](#)

ADDITIONAL RESOURCES

Preparing for your Education
Find out what you need to do to prepare for education beyond high school. [» GO](#)

Financial Aid
Apply for Federal Student Aid on FAFSA. [» GO](#)

Careers
Deciding on a career? Consult the *b/s.gov* Occupational Outlook Handbook. [» GO](#)

Alabama CTE Career Cluster Map

Program Sites with Information

You must have Adobe FlashPlayer 10.0 or higher to view this page.
Get the latest version [here](#)

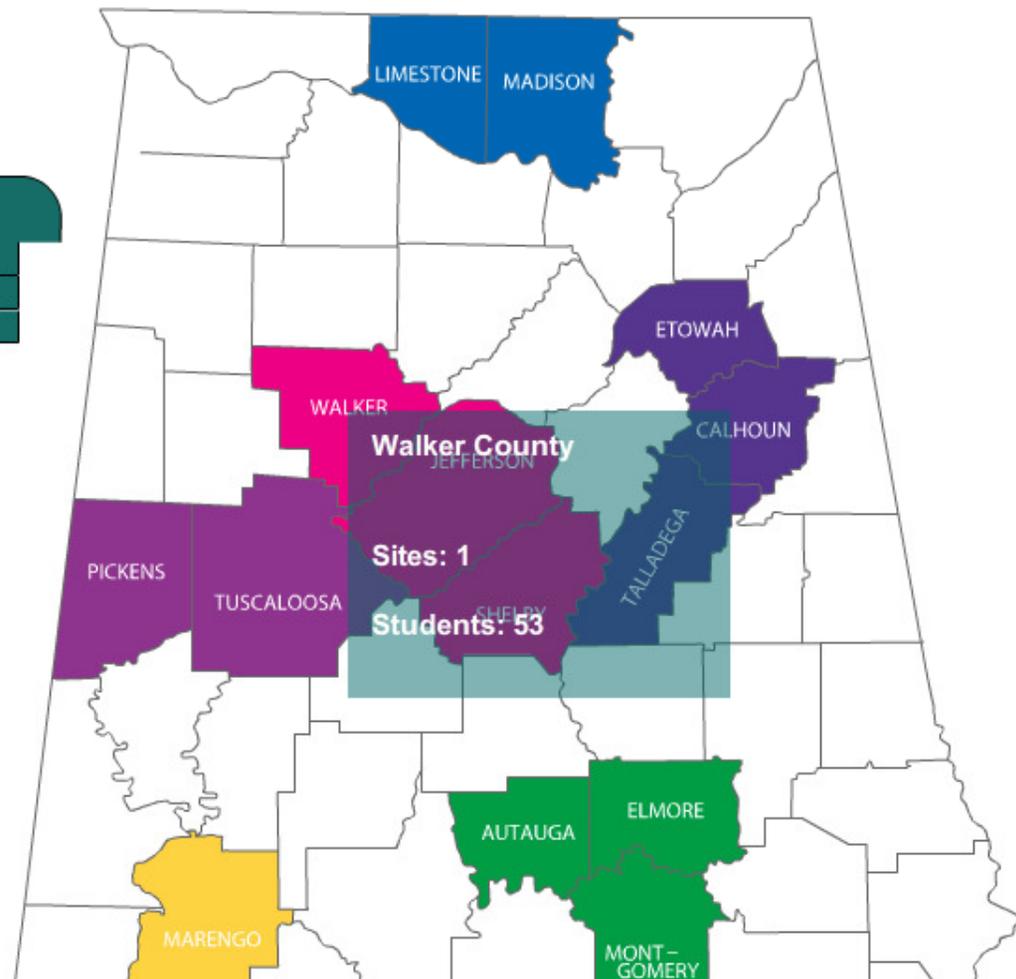
Network Systems and Computer Services
Program Sites with Information

Information Technology

Database Design
Network Systems and Computer Services
Programming and Software Development

Program Locations for : 2012

Walker County
Debra T. Ellis
205-387-0519
Walker County CTC



Alabama Career Exploration Guides pull a lot of this information together into one place

- ▶ Can be found under the occupational statistics tab on the AL LMI website
- ▶ <http://www2.dir.state.al.us/OES/CAREER/DEFAULT.aspx>

SOC: 49-3011 *Aircraft Mechanics and Service Technicians* 

Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems.

[Career Exploration Guide Index](#)

Education: Most people learn aircraft mechanic jobs in 1 of around 200 trade schools certified by the FAA. About one-third of the schools offer 2- and 4-year degrees in avionics, aviation technology, or aviation maintenance management. If interested party has not completed a program at one of these schools, the FAA requires 18 months of work experience for an airframe, powerplant, or avionics repairer's certificate. For a combined A & P

Conditions: Mechanics usually work in hangars or in other indoor areas, but sometimes they must work outdoors in bad weather when repairs have to be done quickly. They are often under time pressure to maintain flight schedules. They often have to lift objects weighing around 70 pounds. Loud noise and vibration are common when working on engines, so ear protection is required. Usually work 40-hour weeks on 8-hour shifts, but overtime is frequent.

Outlook: The outlook for employment in this occupation should be favorable over the next 10 years with much faster than average growth. A large number of retirements lead to good employment conditions for students beginning training. An active military will continue to pursue applicants to train as aircraft mechanics and technicians. Furthermore, a growing population and rising incomes are expected to stimulate the demand for air transportation.

License: Generally, there are basic requirements, experience requirements, and the requirement to pass a series of tests (written, oral, and practical) covering various technical subjects. There is a fee for the test. Contact the FAA in Alabama for information including examination schedules and fees.

Alabama Employment Outlook				
National High Growth Industry	Alabama Wage Data			Alabama Projections
		Mean	Entry	Experience
Aerospace Transportation	Hourly	\$25.30	\$19.37	\$28.26
Comprehensive wage data available: Alabama Occupational Wage Survey				2008 Employment: 3,610
				2018 Projected Employment: 4,930
				Annual Average Openings: 170
				Annual Growth Rate: 3.17%

Postsecondary Institutions With Programs:

Enterprise-Ozark Community College



Concluding thoughts

- ▶ Jobseekers are seen as an important customer group for labor market information
- ▶ The scenarios presented here are just a few of the ways in which LMI can help jobseekers make informed decisions
- ▶ A few key resources include:
 - ▶ <http://www2.dir.state.al.us/default.aspx>
 - ▶ <http://bls.gov/>
 - ▶ <http://nces.ed.gov/>

Thank you!

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