

Career Clusters

Information Technology is one of the 16 Career Clusters identified by the U.S. Department of Education and adopted by the State of Alabama. These Career Clusters represent more than 79 career pathways with the purpose of assisting students in navigating their way successfully in college and careers.

The Alabama Department of Labor further defines these career pathways by selecting common occupations with related education requirements, work experience, wages and typical training needed, as defined by the U.S. Bureau of Labor Statistics. Included in this pamphlet are the high skilled, high demand, and high wage occupations associated with Information Technology.

Earnings

ALABAMA STATEWIDE SELECTED OCCUPATIONS	SALARY		
Occupation	Entry	Average	Experienced
Computer Operators	\$23,629	\$36,317	\$42,661
Web Developers	\$31,905	\$50,615	\$59,969
Computer Network Support Specialists	\$35,840	\$55,988	\$66,062
Desktop Publishers	\$24,102	\$34,899	\$40,298
Computer and Information Systems Managers	\$77,788	\$119,169	\$139,860
Computer Network Architects	\$61,828	\$88,401	\$101,687
Computer Systems Analysts	\$54,565	\$79,202	\$91,521
Computer Programmers	\$49,871	\$80,486	\$95,793
Database Administrators	\$44,795	\$70,120	\$82,782
Network and Computer Systems Administrators	\$46,008	\$68,993	\$80,485
Software Developers, Applications	\$61,810	\$91,070	\$105,700
Computer Hardware Engineers	\$72,484	\$99,980	\$113,728



Building linkages in IT occupations for entry level, technical and professional careers related to the design, development, support and management of hardware, software, multimedia and systems integration services.

Education

HIGH SCHOOL OR LESS

Computer Operators  

SOME COLLEGE - ASSOCIATE'S DEGREE

Web Developers  
 Computer Network Support Specialists  
 Desktop Publishers  

BACHELOR'S DEGREE AND ABOVE

Computer and Information Systems Managers  
 Computer Network Architects  
 Computer Systems Analysts  
 Computer Programmers  
 Database Administrators  
 Network and Computer Systems Administrators  
 Software Developers, Applications  
 Computer Hardware Engineers  

Typical On-the-Job Training Needed to Attain Competency	Work Experience in a Related Occupation
None	 More than 5 years 
Short-term On-the-Job Training	 1 to 5 years 
Moderate-term On-the-Job Training	 Less than 1 year 
Long-term On-the-Job Training	 None 
Apprenticeship	
Internship/Residency	

Employment

ALABAMA STATEWIDE SELECTED OCCUPATIONS	TOTAL EMPLOYMENT		
Occupation	2012	2022	Average Annual Openings
Computer Operators	1,060	890	10
Web Developers	860	1,040	30
Computer Network Support Specialists	1,530	1,770	50
Desktop Publishers	160	150	5
Computer and Information Systems Managers	2,930	3,500	100
Computer Network Architects	760	860	25
Computer Systems Analysts	5,840	7,400	245
Computer Programmers	5,160	5,670	185
Database Administrators	1,850	2,140	65
Network and Computer Systems Administrators	4,620	5,520	135
Software Developers, Applications	3,740	4,630	120
Computer Hardware Engineers	1,290	1,410	40

Career Snapshot

The occupations reporting the highest average salaries require a Bachelor's degree or higher and no on-the-job training. These occupations include Computer & Information Systems Managers, Computer Hardware Engineers, and Software Developers, Applications. Computer & Information Systems Managers are required to possess more than 5 years of work experience in a related occupation.

The occupations reporting the highest average annual openings are occupations that require a Bachelor's degree or higher. These occupations include Computer Systems Analysts, Computer Programmers, and Network & Computer Systems Administrators.

Occupation(s) also noted as High Demand: Computer & Information Systems Managers, Computer Systems Analysts, and Software Developers, Applications

Career Clusters

Agriculture, Food & Natural Resources

Architecture & Construction

Arts, A/V Technology & Communications

Business Management & Administration

Education & Training

Finance

Government & Public Administration

Health Science

Hospitality & Tourism

Human Services

Information Technology

Law, Public Safety, Corrections & Security

Manufacturing

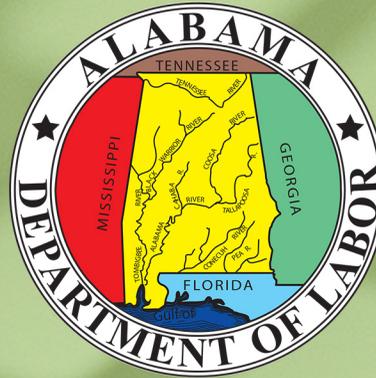
Marketing, Sales & Service

Science, Technology, Engineering & Mathematics

Transportation, Distribution & Logistics

For more information regarding
Career Clusters, visit:
www.careertech.org/career-clusters
www.altechprep.org/clusters.html

For Occupational Videos, visit:
www2.labor.alabama.gov/videos

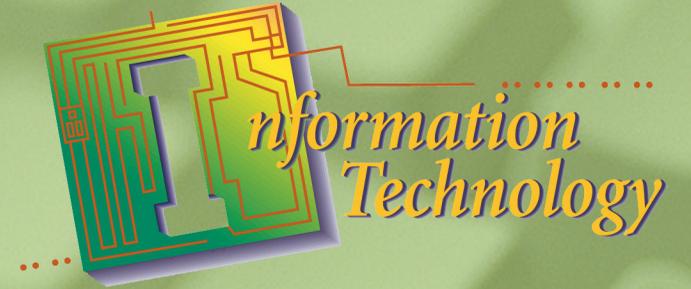


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*Average Annual Salary Source:
Wage data based on the May 2014 OES Employment & Wage File,
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Career and Technical Education Section.

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A glance into the world of..



Alabama Department of Labor
Labor Market Information Division

