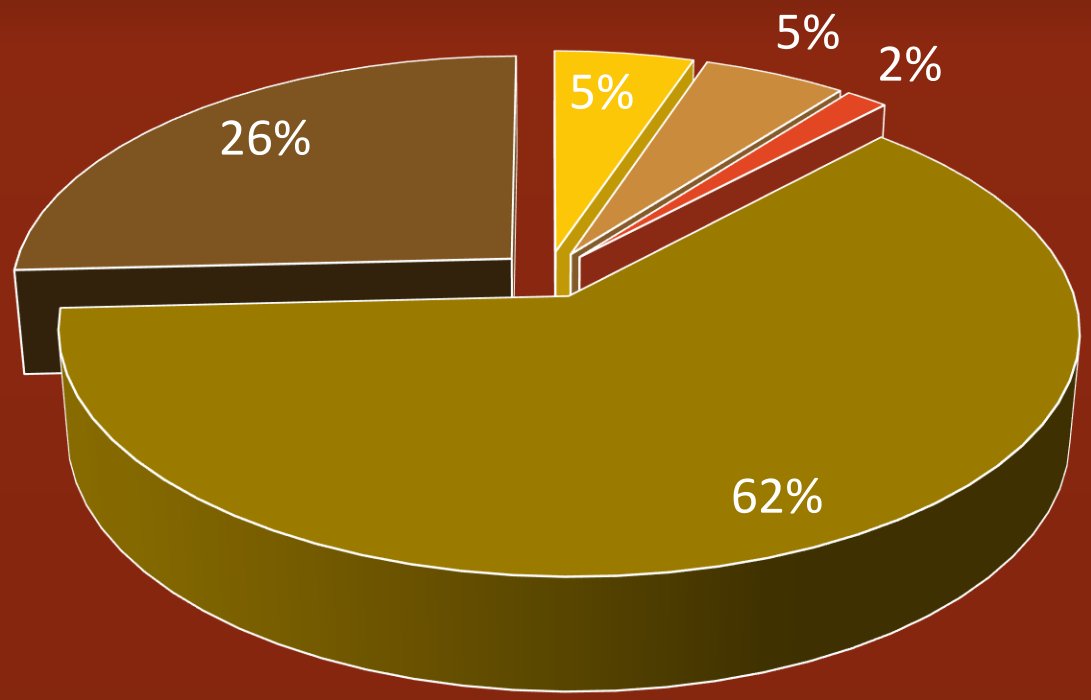
Accelerate Alabama Information Technology

Alabama Department of Labor

Labor Market Information Division

Alabama Information Technology Employment by Industry Sectors



- Computer and Peripheral Equipment Manufacturing
- Communications Equipment Manufacturing
- Specialized Design Services
- Computer Systems Design and Related Services
- Management, Scientific, and Technical Consultation Services

Source: Quarterly Census of Employment and Wages, 2014 Annual Average

Alabama Information Technology Industry Overview

Sector	# of Companies	# Employed
Computer and Peripheral Equipment Manufacturing	13	1,905
Communications Equipment Manufacturing	19	1,955
Specialized Design Services	214	577
Computer Systems Design and Related Services	2,416	22,945
Management, Scientific, and Technical Consultation Services	2,168	9,507

Source: Quarterly Census of Employment and Wages, 2014 Annual Average

Computer and Peripheral Equipment Manufacturing

3341 Computer and Peripheral Equipment Manufacturing
This industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers; and computer peripheral equipment, such as storage devices, printers, monitors, input/output devices and terminals. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following: (1) store the processing program or programs and the data immediately necessary for the execution of the program; (2) can be freely programmed in accordance with the requirements of the user; (3) perform arithmetical computations specified by the user; and (4) execute, without human intervention, a processing program that requires the computer to modify its execution by logical decision during the processing run. Analog computers are capable of simulating mathematical models and comprise at least analog, control, and programming elements.

13 companies; 1,905 employed;
5% of IT Industry Employment

# of Employees	% of Companies
1-49	62%
50-99	7%
100-249	8%
250+	23%

Source: Quarterly Census of Employment and Wages, 2014 annual average. *Note: Numbers may not equal 100% due to rounding.*

Top 5 Job Categories:

- 18% Software Developers, Applications
- 12% Software Developers, Systems Software
- 7% Computer Systems Analysts
- 7% Cartographers and Photogrammetrists
- 5% Computer and Information Systems Managers

Source: 2015 Release of the Occupational Employment Statistics (OES) Report in cooperation with the Bureau of Labor Statistics. Wage data aged using latest Employment Cost Index (ECI) factors.

Computer and Peripheral Equipment Manufacturing
Firm Age Workforce Indicators

Firm Age	Employment	Monthly Earnings	Monthly Earnings New Hires	Turnover
0 – 1 Year	*	$3,476	*	*
2 – 3 Years	*	$4,863	*	*
4 – 5 Years	20	$5,421	*	*
6 – 10 Years	*	*	*	*
11+ Years	1,714	$4,626	*	3.0%
All Firm Ages	1,735	$4,637	$4,470	3.0%

Source: Local Employment Household Dynamics Partnership between Alabama Department of Labor, Labor Market Information Division, and the U.S. Census Bureau, LED Extraction Tool; 2014 annual average data shown. **Data not available or marked confidential. Note: Data may not add due to rounding.*

Alabama Department of Labor

Labor Market Information
James Henry, Division Director

Communications Equipment Manufacturing

3342: 33421 Telephone Apparatus Manufacturing This industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be standalone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, LAN modems, multi-user modems, and other data communications equipment, such as bridges, routers, and gateways. **33422 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing** This industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are: transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

19 companies; 1,955 employed;
5% of IT Industry Employment

# of Employees	% of Companies
1-49	74%
50-99	11%
100-249	11%
250+	4%

Source: Quarterly Census of Employment and Wages, 2014 annual average. *Note: Numbers may not equal 100% due to rounding.*

Top 5 Job Categories:

- 12% Electrical Engineers
- 8% Electrical and Electronics Engineering Technicians
- 6% Team Assemblers
- 4% Electrical and Electronics Drafters
- 4% Architectural and Engineering Managers

Source: 2015 Release of the Occupational Employment Statistics (OES) Report in cooperation with the Bureau of Labor Statistics. Wage data aged using latest Employment Cost Index (ECI) factors.

Communications Equipment Manufacturing
Firm Age Workforce Indicators

Firm Age	Employment	Monthly Earnings	Monthly Earnings New Hires	Turnover
0 – 1 Year	*	*	*	*
2 – 3 Years	*	*	*	*
4 – 5 Years	*	*	*	*
6 – 10 Years	9	$5,125	*	*
11+ Years	1,818	$5,414	$4,300	1.8%
All Firm Ages	1,827	$5,413	$4,424	1.8%

Source: Local Employment Household Dynamics Partnership between Alabama Department of Labor, Labor Market Information Division, and the U.S. Census Bureau, LED Extraction Tool; 2014 annual average data shown. **Data not available or marked confidential. Note: Data may not add due to rounding.*

Specialized Design Services

5414 Specialized Design Services
This industry comprises establishments primarily engaged in creating and developing designs and specifications that optimize the use, value, and appearance of their products. These services can include the determination of the materials, construction, mechanisms, shape, color, and surface finishes of the product, taking into consideration human characteristics and needs, safety, market appeal, and efficiency in production, distribution, use, and maintenance. Establishments providing automobile or furniture industrial design services or industrial design consulting services are included in this industry.

214 companies; 577 employed;
2% of IT Industry Employment

# of Employees	% of Companies
1-49	100%
50-99	0%
100-249	0%
250+	0%

Source: Quarterly Census of Employment and Wages, 2014 annual average. *Note: Numbers may not equal 100% due to rounding.*

Top 5 Job Categories:

- 28% Interior Designers
- 19% Graphic Designers
- 7% Retail Salespersons
- 7% Sewing Machine Operators
- 4% General and Operations Managers

Source: 2015 Release of the Occupational Employment Statistics (OES) Report in cooperation with the Bureau of Labor Statistics. Wage data aged using latest Employment Cost Index (ECI) factors.

Specialized Design Services
Firm Age Workforce Indicators

Firm Age	Employment	Monthly Earnings	Monthly Earnings New Hires	Turnover
0 – 1 Year	43	$3,374	*	*
2 – 3 Years	27	$1,974	*	20.0%
4 – 5 Years	14	$2,558	*	14.3%
6 – 10 Years	89	$3,368	$2,545	8.5%
11+ Years	347	$3,536	$2,359	6.9%
All Firm Ages	520	$3,381	$2,762	8.8%

Source: Local Employment Household Dynamics Partnership between Alabama Department of Labor, Labor Market Information Division, and the U.S. Census Bureau, LED Extraction Tool; 2014 annual average data shown. **Data not available or marked confidential. Note: Data may not add due to rounding.*

Computer Systems Design and Related Services

5415 Computer Systems Design and Related Services
This industry comprises establishments primarily engaged in providing expertise in the field of information technologies through one or more of the following activities: (1) writing, modifying, testing, and supporting software to meet the needs of a particular customer; (2) planning and designing computer systems that integrate computer hardware, software, and communication technologies; (3) on-site management and operation of clients' computer systems and/or data processing facilities; and (4) other professional and technical computer-related advice and services.

2,416 companies; 22,945 employed;
62% of IT Industry Employment

# of Employees	% of Companies
1-49	96%
50-99	2%
100-249	1%
250+	0%

Source: Quarterly Census of Employment and Wages, 2014 annual average. *Note: Numbers may not equal 100% due to rounding.*

Top 5 Job Categories:

- 10% Computer User Support Specialists
- 10% Computer Programmers
- 8% Software Developers, Applications
- 7% Computer Systems Analysts
- 5% Computer and Information Systems Managers

Source: 2015 Release of the Occupational Employment Statistics (OES) Report in cooperation with the Bureau of Labor Statistics. Wage data aged using latest Employment Cost Index (ECI) factors.

Computer Systems Design and Related Services
Firm Age Workforce Indicators

Firm Age	Employment	Monthly Earnings	Monthly Earnings New Hires	Turnover
0 – 1 Year	310	$5,159	$4,608	15.7%
2 – 3 Years	573	$6,005	$5,020	7.4%
4 – 5 Years	587	$6,870	$5,607	12.4%
6 – 10 Years	1,992	$6,089	$5,211	8.5%
11+ Years	18,008	$6,768	$5,275	5.0%
All Firm Ages	21,470	$6,665	$5,236	5.8%

Source: Local Employment Household Dynamics Partnership between Alabama Department of Labor, Labor Market Information Division, and the U.S. Census Bureau, LED Extraction Tool; 2014 annual average data shown. **Data not available or marked confidential. Note: Data may not add due to rounding.*

Management, Scientific, and Technical Consultation Services

5416 Management, Scientific, and Technical Consultation Services
This industry comprises establishments primarily engaged in providing advice and assistance to businesses and other organizations on management issues, such as strategic and organizational planning; financial planning and budgeting; marketing objectives and policies; human resource policies, practices, and planning; production scheduling; and control planning.

2,168 companies; 9,507 employed;
26% of IT Industry Employment

# of Employees	% of Companies
1-49	99%
50-99	1%
100-249	0%
250+	0%

Source: Quarterly Census of Employment and Wages, 2014 annual average. *Note: Numbers may not equal 100% due to rounding.*

Top 5 Job Categories:

- 16% Management Analysts
- 8% Secretaries and Administrative Assistants, Except Legal, Medical, and Executive
- 5% General and Operations Managers
- 3% Office Clerks, General
- 3% Executive Secretaries and Executive Administrative Assistants

Source: 2015 Release of the Occupational Employment Statistics (OES) Report in cooperation with the Bureau of Labor Statistics. Wage data aged using latest Employment Cost Index (ECI) factors.

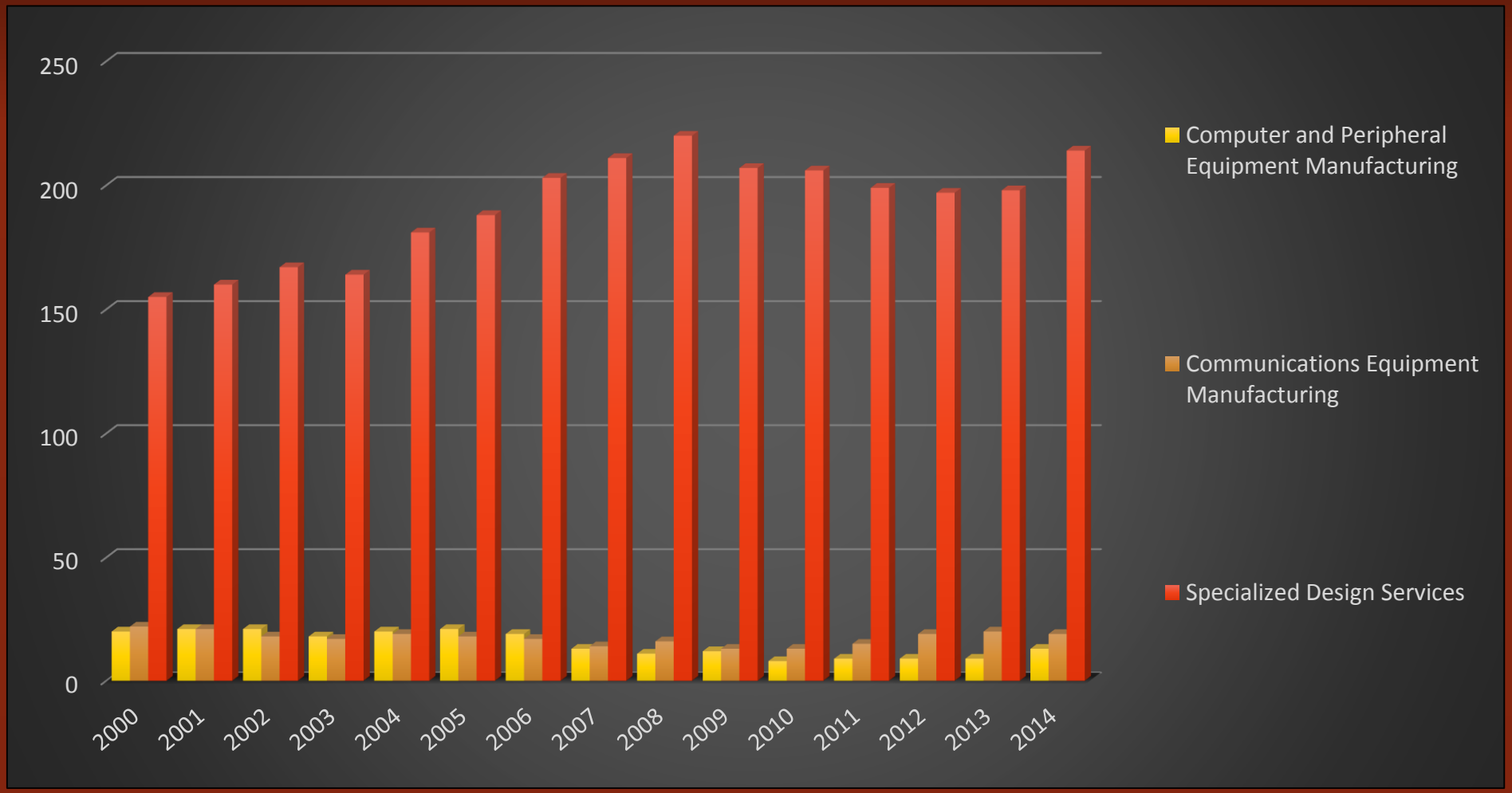
Management, Scientific, and Technical Consultation Services

Firm Age Workforce Indicators

Firm Age	Employment	Monthly Earnings	Monthly Earnings New Hires	Turnover
0 – 1 Year	449	$4,724	$3,997	*
2 – 3 Years	792	$4,719	$3,474	12.1%
4 – 5 Years	395	$5,506	$3,196	14.3%
6 – 10 Years	1,594	$5,329	$4,383	10.7%
11+ Years	4,823	$4,906	$3,635	9.4%
All Firm Ages	8,058	$4,987	$3,781	10.7%

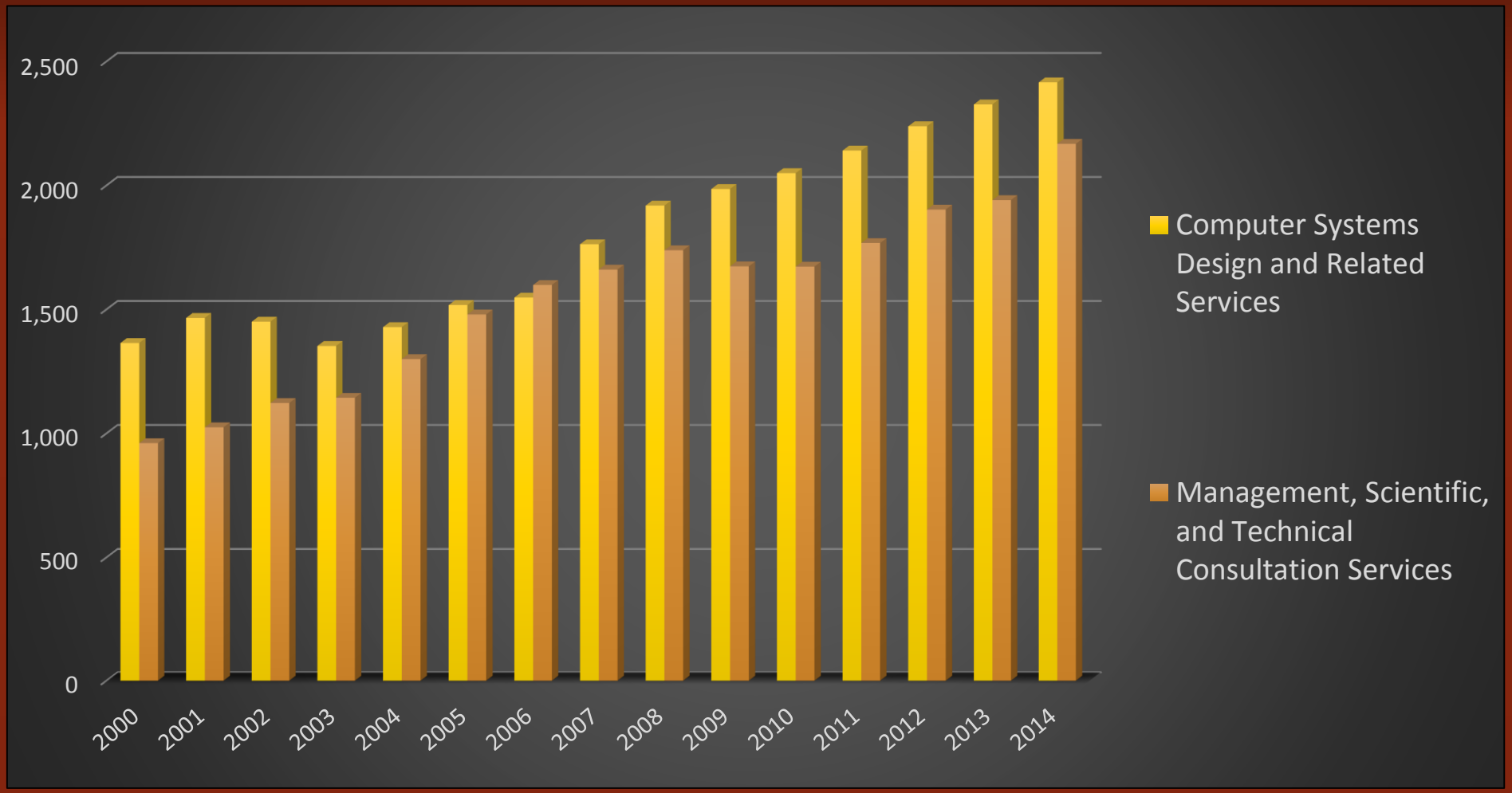
Source: Local Employment Household Dynamics Partnership between Alabama Department of Labor, Labor Market Information Division, and the U.S. Census Bureau, LED Extraction Tool; 2014 annual average data shown. **Data not available or marked confidential. Note: Data may not add due to rounding.*

Development of Alabama's Information Technology Industry by Company



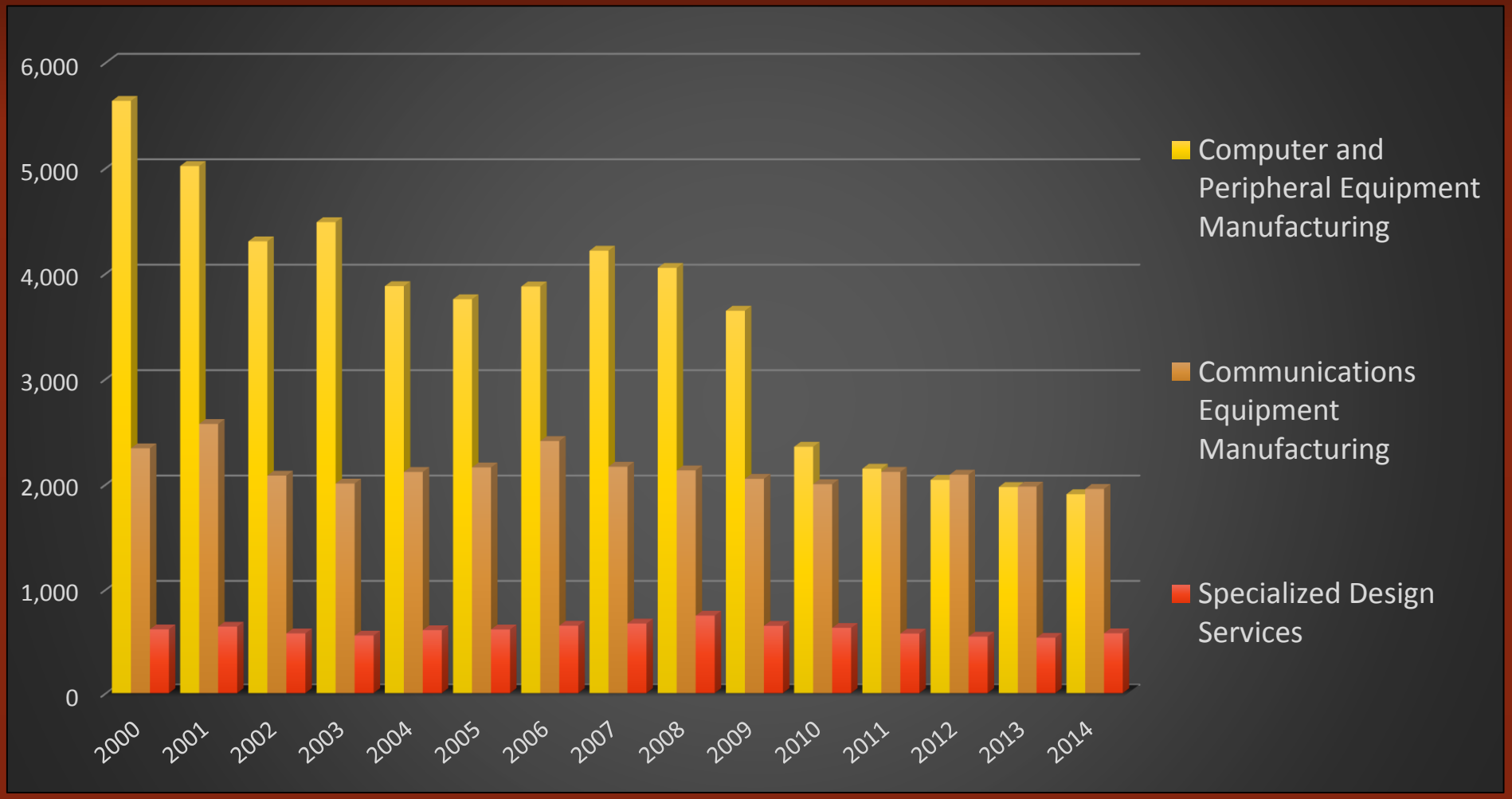
Source: Alabama Department of Labor, Quarterly Census of Employment and Wages.

Development of Alabama's Information Technology Industry by Company



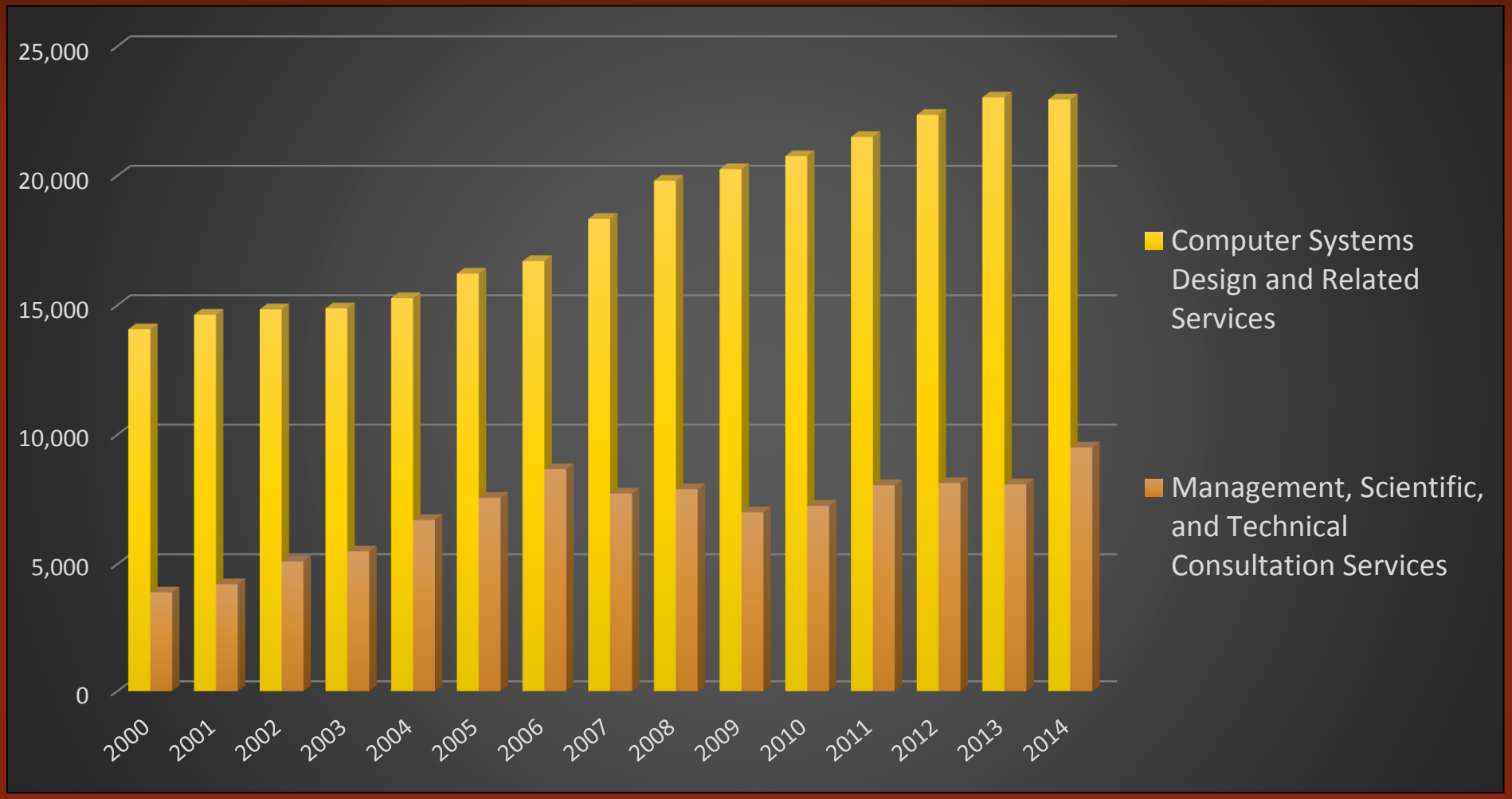
Source: Alabama Department of Labor, Quarterly Census of Employment and Wages.

Development of Alabama's Information Technology Industry by Employment



Source: Alabama Department of Labor, Quarterly Census of Employment and Wages.

Development of Alabama's Information Technology Industry by Employment



Source: Alabama Department of Labor, Quarterly Census of Employment and Wages.

Top Occupations for Information Technology by Rounded Employment

Occupations	# of Jobs	% of Total
Computer User Support Specialists	2,520	7%
Computer Programmers	2,470	7%
Management Analysts	2,290	6%
Software Developers, Applications	2,190	6%
Computer Systems Analysts	1,880	5%
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1,520	4%
General and Operations Managers	1,380	4%
Software Developers, Systems Software	1,370	4%
Computer and Information Systems Managers	1,240	3%
Remaining Occupations	19,830	54%

Source: 2015 release of the Occupational Employment Statistics (OES) Report in cooperation with the Bureau of Labor Statistics; wage data aged using the most current Employment Cost Index (ECI) factors. Annual wage information rounded to the nearest whole dollar. *Note: Data reflects wages across all industries, not specifically to respective industry cluster.*

Wage Information
Top 10 by Rounded Occupational Employment

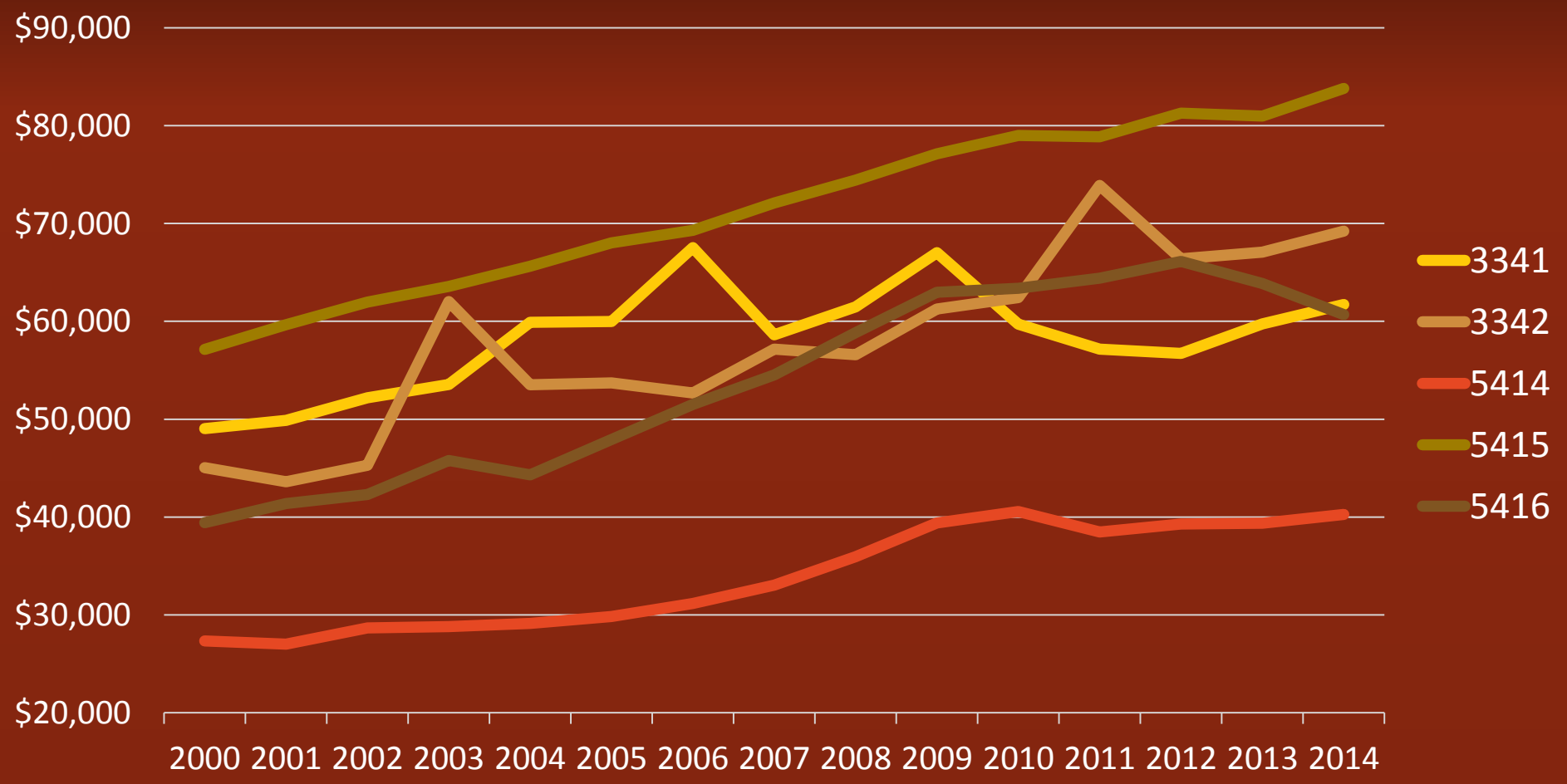
Occupation	Rounded Emp.	Mean Hourly	Mean Annual	Entry Hourly	Entry Annual	Experience Hourly	Experience Annual
Computer User Support Specialists	2,520	$23.05	$47,929	$14.53	$30,213	$27.31	$56,797
Computer Programmers	2,470	$40.77	$84,798	$26.73	$55,584	$47.80	$99,415
Management Analysts	2,290	$44.85	$93,292	$25.10	$52,201	$54.73	$113,842
Software Developers, Applications	2,190	$46.32	$96,326	$29.91	$62,209	$54.51	$113,390
Computer Systems Analysts	1,880	$37.70	$78,427	$26.74	$55,614	$43.19	$89,833
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1,520	$16.71	$34,741	$12.15	$25,281	$18.97	$39,472
General and Operations Managers	1,380	$60.32	$125,465	$31.74	$66,038	$74.61	$155,179
Software Developers, Systems Software	1,370	$48.90	$101,698	$32.12	$66,806	$57.28	$119,139
Computer and Information Systems Managers	1,240	$59.14	$123,005	$36.64	$76,226	$70.38	$146,395
Network and Computer Systems Administrators	970	$34.80	$72,392	$23.79	$49,498	$40.30	$83,839

Source: 2015 release of the Occupational Employment Statistics (OES) Report in cooperation with the Bureau of Labor Statistics; wage data aged using the most current Employment Cost Index (ECI) factors. Annual wage information rounded to the nearest whole dollar. *Note: Data reflects wages across all industries, not specifically to respective industry cluster.*

Alabama Department of Labor

Labor Market Information
James Henry, Division Director

Wage Information
Total Wages by NAICS Code 2000-2014



Source: Alabama Department of Labor, Quarterly Census of Employment and Wages

2014 Quarterly Workforce Indicators

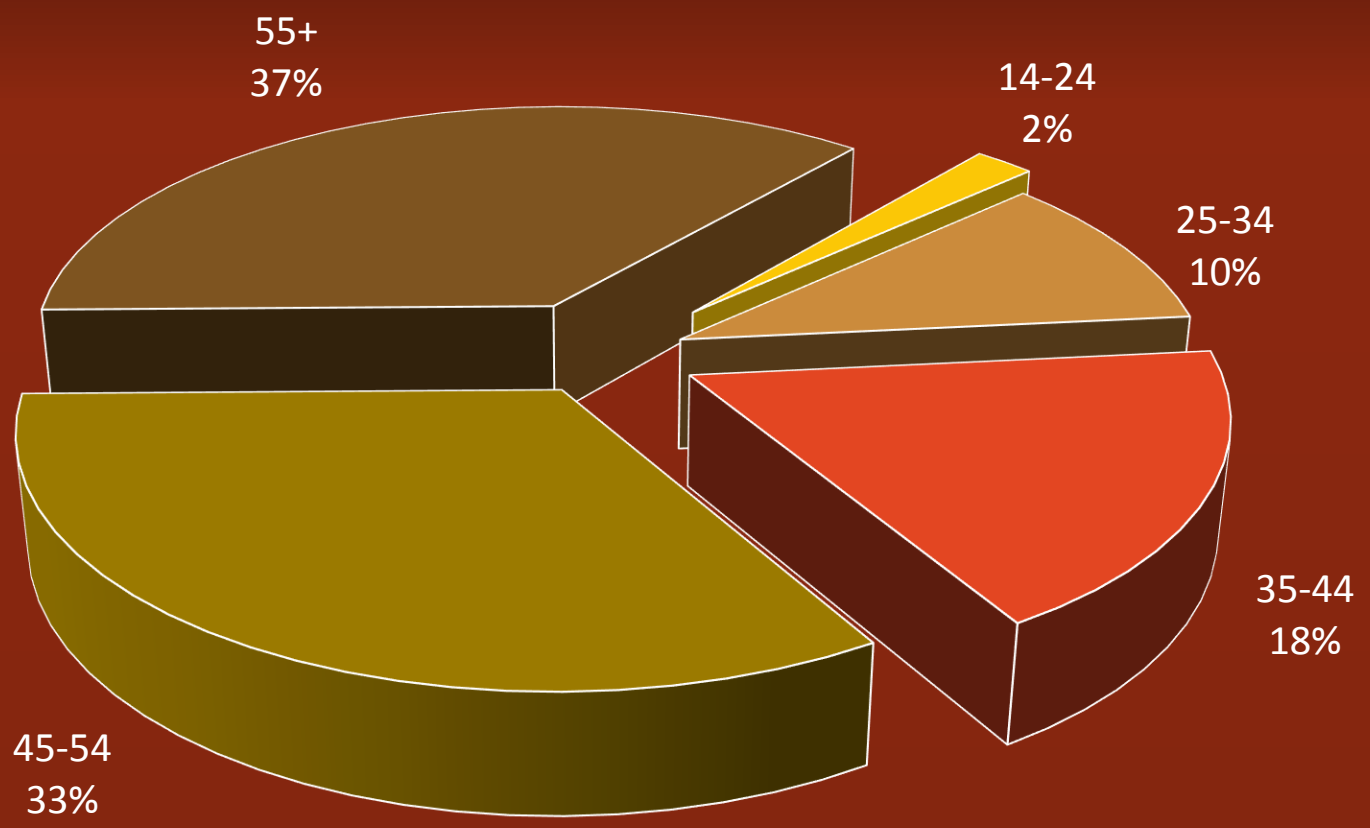
NAICS	Industry	Average Turnover Rate	Average Job Gains	Average Net Job Flows	Average Monthly Earnings	Average Monthly Earnings – New Hires
3341	Computer and Peripheral Equipment Manufacturing	3.0%	7	-15	$4,637	$4,470
3342	Communications Equipment Manufacturing	1.8%	11	2	$5,413	$4,249
5414	Specialized Design Services	8.8%	32	-4	$3,381	$2,762
5415	Computer Systems Design and Related Services	5.8%	627	-47	$6,665	$5,236
5416	Management, Scientific, and Technical Consultation Services	10.7%	579	97	$4,987	$3,781

Source: Partnership between the Alabama Department of Labor, Labor Market Information Division and the U.S. Census Bureau, Longitudinal Employment-Household Dynamics (LEHD) Program, Quarterly Workforce Indicators (QWI) data. ** Data confidential according to Relative Standard Error (RSE).

Alabama Department of Labor

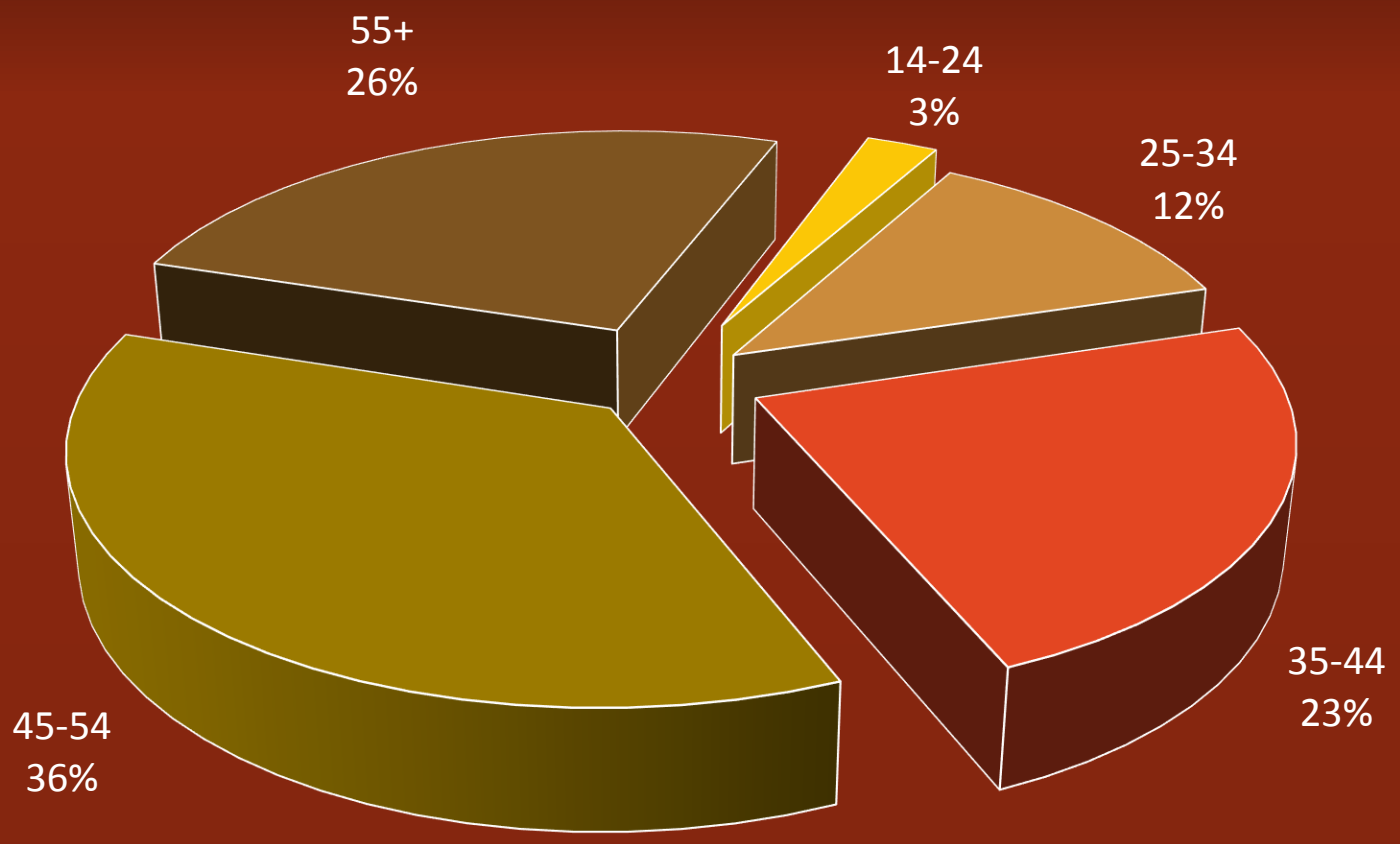
Labor Market Information
James Henry, Division Director

3341 Computer and Peripheral Equipment Manufacturing
2014 Average Annual Employment by Age Group



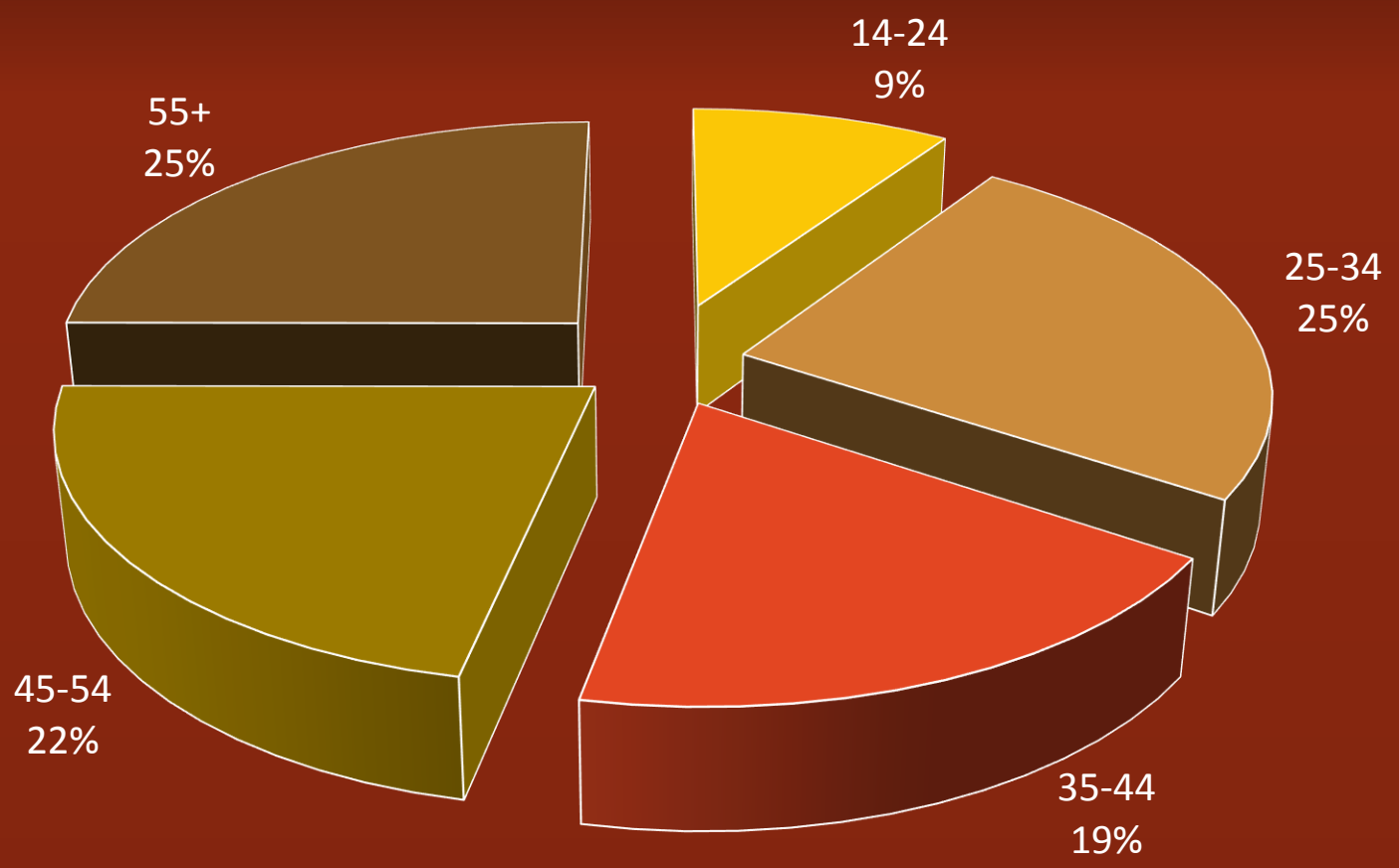
Source: Partnership between the Alabama Department of Labor, Labor Market Information Division and the U.S. Census Bureau, Longitudinal Employment-Household Dynamics (LEHD) Program, Quarterly Workforce Indicators (QWI) data.

3342 Communications Equipment Manufacturing
2014 Average Annual Employment by Age Group



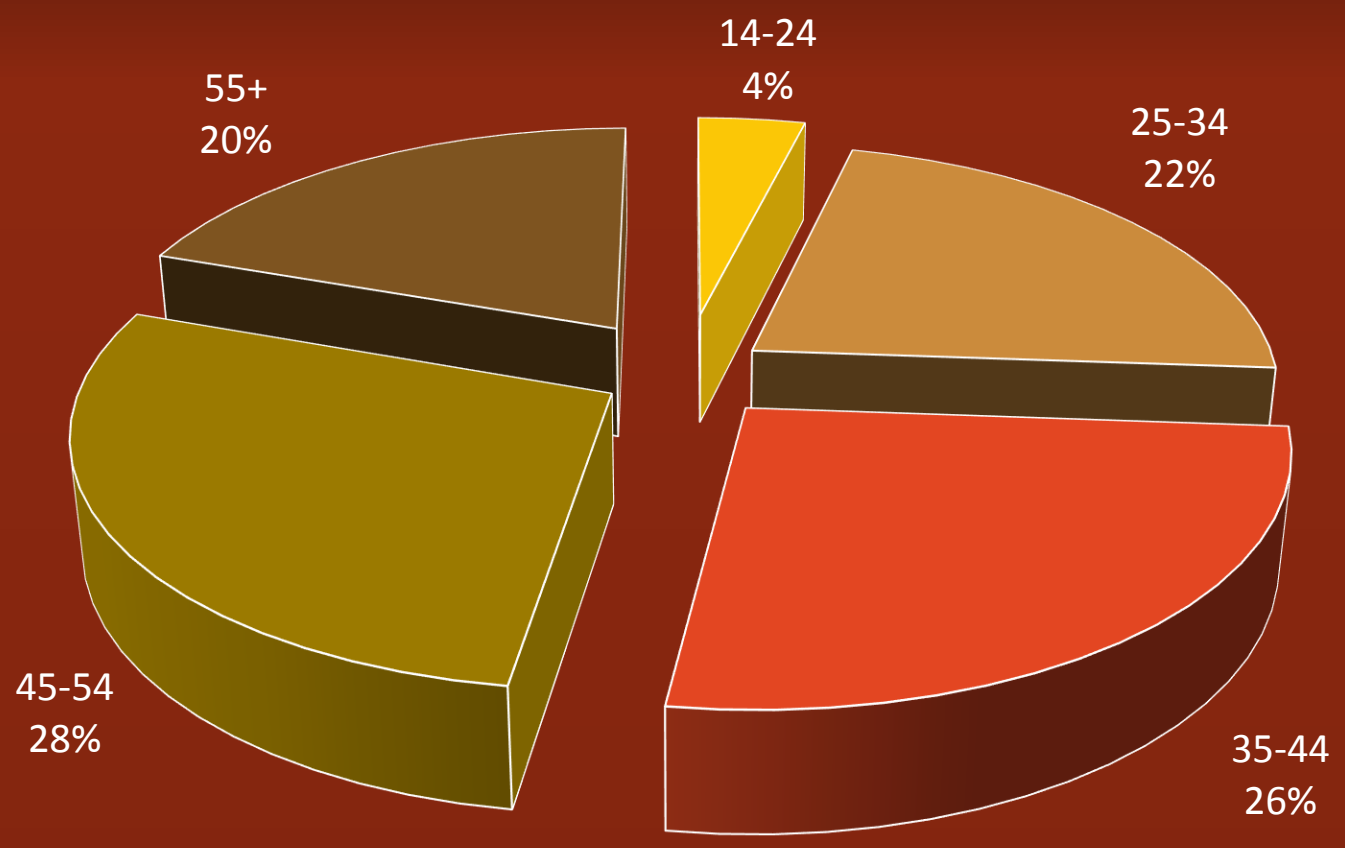
Source: Partnership between the Alabama Department of Labor, Labor Market Information Division and the U.S. Census Bureau, Longitudinal Employment-Household Dynamics (LEHD) Program, Quarterly Workforce Indicators (QWI) data.

5414 Specialized Design Services
2014 Average Annual Employment by Age Group



Source: Partnership between the Alabama Department of Labor, Labor Market Information Division and the U.S. Census Bureau, Longitudinal Employment-Household Dynamics (LEHD) Program, Quarterly Workforce Indicators (QWI) data.

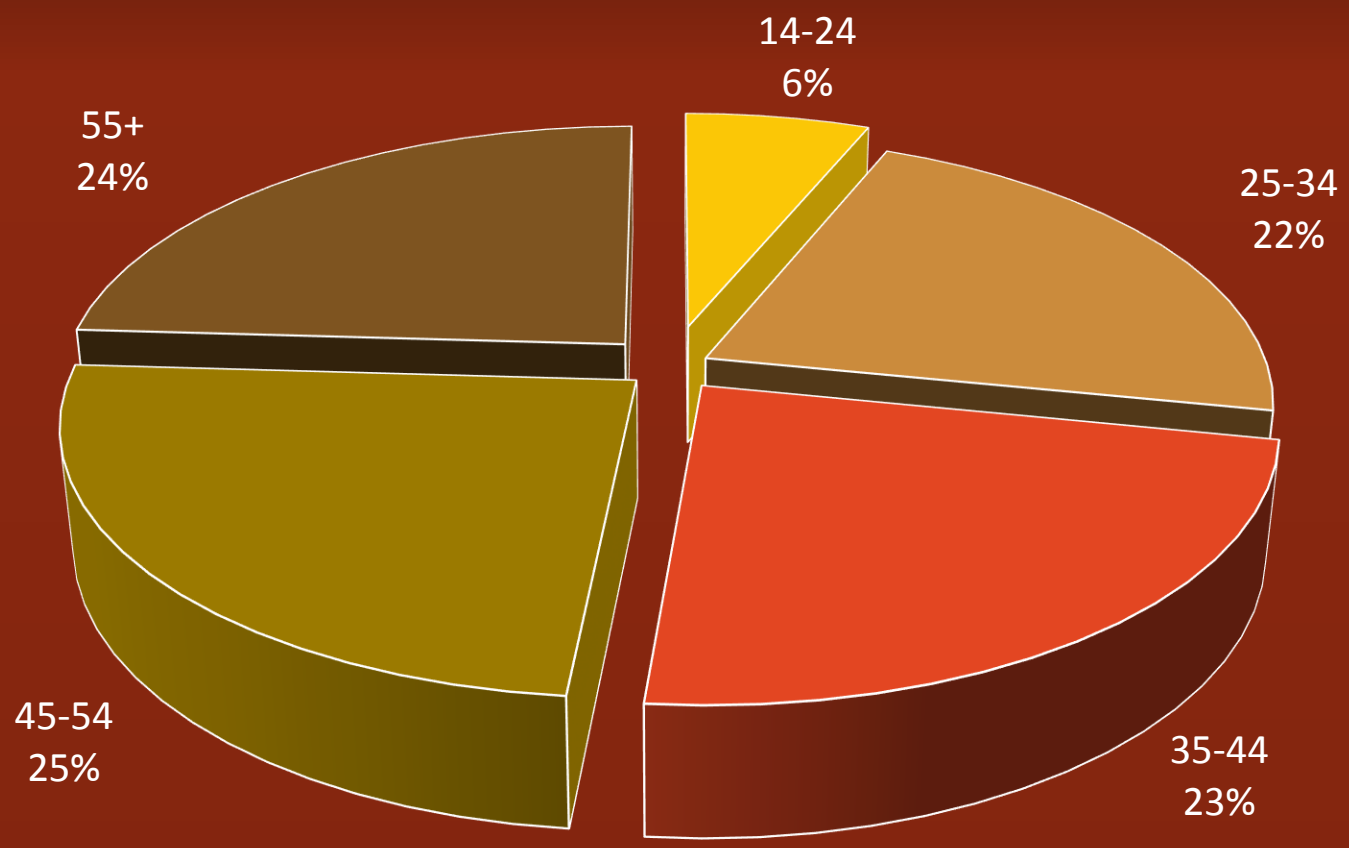
5415 Computer Systems Design and Related Services
2014 Average Annual Employment by Age Group



Source: Partnership between the Alabama Department of Labor, Labor Market Information Division and the U.S. Census Bureau, Longitudinal Employment-Household Dynamics (LEHD) Program, Quarterly Workforce Indicators (QWI) data.

5416 Management, Scientific, and Technical Consultation Services

2014 Average Annual Employment by Age Group



Source: Partnership between the Alabama Department of Labor, Labor Market Information Division and the U.S. Census Bureau, Longitudinal Employment-Household Dynamics (LEHD) Program, Quarterly Workforce Indicators (QWI) data.

Projections Information
2014 – 2024 Industry Projections by NAICS Code

NAICS	Industry	2014	2024	Net Change	Percent Change	Average Annual Growth	U.S. Average Annual Growth	Location Quotient
3341	Computer and Peripheral Equipment Manufacturing	1,910	1,590	-320	-16.75	-1.82	-1.82	0.84
3342	Communications Equipment Manufacturing	1,960	1,610	-350	-17.86	-1.95	-2.92	1.51
5414	Specialized Design Services	580	620	40	6.90	0.67	0.72	0.33
5415	Computer Systems Design and Related Services	22,950	28,700	5,750	25.05	2.26	2.09	0.93
5416	Management, Scientific, and Technical Consultation Services	9,510	12,500	2,990	31.44	2.77	2.38	0.55

Source: 2014-2024 Industry Projections, produced by the Labor Market Information Division in cooperation with the Projections Managing Partnership (PMP).

Major Information Technology Regions

Information Technology Industry Maps:

Statewide

Workforce Development Region 1

Workforce Development Region 2

Workforce Development Region 3

Workforce Development Region 4

Workforce Development Region 5

Workforce Development Region 6

Workforce Development Region 7

Workforce Development Region 8

Workforce Development Region 9

Workforce Development Region 10