



Alabama
Department of Labor

Labor Market Information
James Henry, Division Director

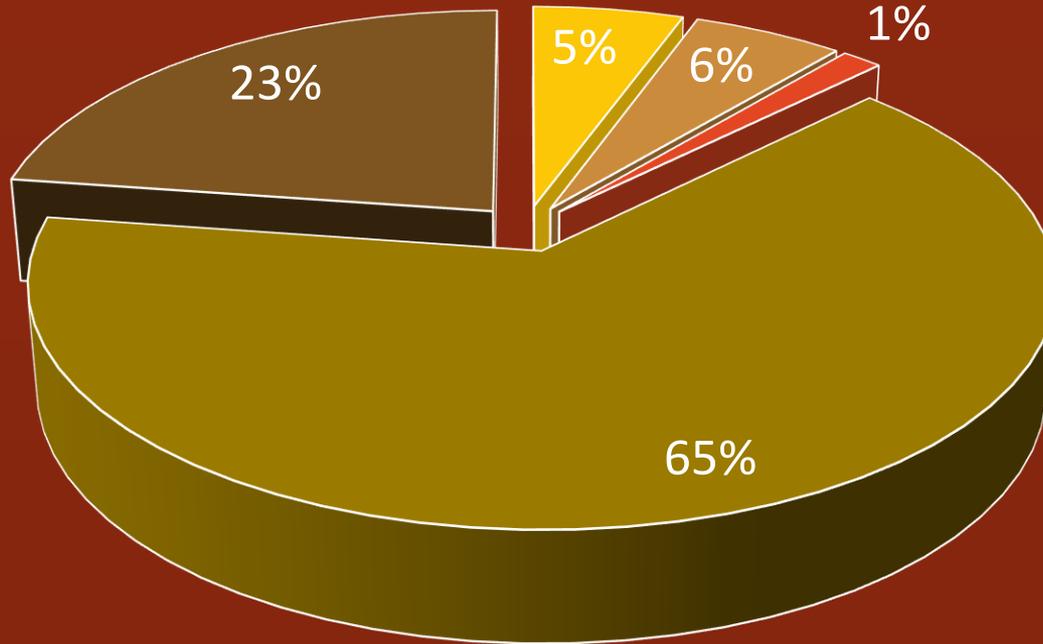


Accelerate Alabama Information Technology

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



Alabama Information Technology Industry Overview

Sector	# of Companies	# Employed
Computer and Peripheral Equipment Manufacturing	9	1,973
Communications Equipment Manufacturing	20	1,977
Specialized Design Services	198	534
Computer Systems Design and Related Services	2,327	23,026
Management, Scientific, and Technical Consultation Services	1,941	8,084



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.

9 companies; 1,973 employed;
5% of IT Industry Employment

# of Employees	% of Companies
1-49	55%
50-99	0%
100-249	18%
250+	27%

Source: Quarterly Census of Employment and Wages, 2013 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: 2014 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	*	\$3,630	*	*
2 – 3 Years	*	*	*	*
4 – 5 Years	*	\$2,982	*	*
6 – 10 Years	*	*	*	*
11+ Years	1,781	\$4,476	*	2.5%
All Firm Ages	1,803	\$4,510	\$4,849	2.6%



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.

20 companies; 1,977 employed;
6% of IT Industry Employment

# of Employees	% of Companies
1-49	75%
50-99	10%
100-249	10%
250+	5%

Source: Quarterly Census of Employment and Wages, 2013 annual average. *Note: Numbers may not equal 100% due to rounding.*

Top 5 Job Categories:

- 12% Electrical Engineers
- 8% Electrical and Electronics Engineering Technicians
- 7% Team Assemblers
- 5% First-Line Supervisors of Production and Operating Workers
- 4% Electrical and Electronics Drafters

Source: 2014 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	*	\$5,847	\$2,632	*
11+ Years	1,840	\$5,229	\$4,030	2.0%
All Firm Ages	1,849	\$5,233	\$4,074	2.1%



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.

198 companies; 534 employed;
1% 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, 2013 annual average. *Note: Numbers may not equal 100% due to rounding.*

Top 5 Job Categories:

- 27% Interior Designers
- 19% Graphic Designers
- 7% Retail Salespersons
- 7% Sewing Machine Operators
- 4% General and Operations Managers

Source: 2014 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	29	\$2,320	*	*
2 – 3 Years	16	\$1,803	\$1,709	20.0%
4 – 5 Years	22	\$1,868	\$1,464	14.0%
6 – 10 Years	84	\$3,128	\$2,838	10.1%
11+ Years	361	\$3,527	\$2,863	6.8%
All Firm Ages	512	\$3,262	\$2,765	8.4%



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.

2,327 companies; 23,026 employed;
65% of IT Industry Employment

# of Employees	% of Companies
1-49	97%
50-99	2%
100-249	1%
250+	0%

Source: Quarterly Census of Employment and Wages, 2013 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: 2014 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	472	\$5,457	\$4,863	13.1%
2 – 3 Years	459	\$5,809	\$4,769	10.3%
4 – 5 Years	631	\$6,236	\$5,491	10.2%
6 – 10 Years	1,676	\$5,893	\$5,388	8.8%
11+ Years	18,595	\$6,846	\$5,434	5.3%
All Firm Ages	21,833	\$6,701	\$5,388	5.9%



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.

1,941 companies; 8,084 employed;
23% of IT Industry Employment

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

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: Quarterly Census of Employment and Wages, 2013 annual average. *Note: Numbers may not equal 100% due to rounding.*

Source: 2014 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.

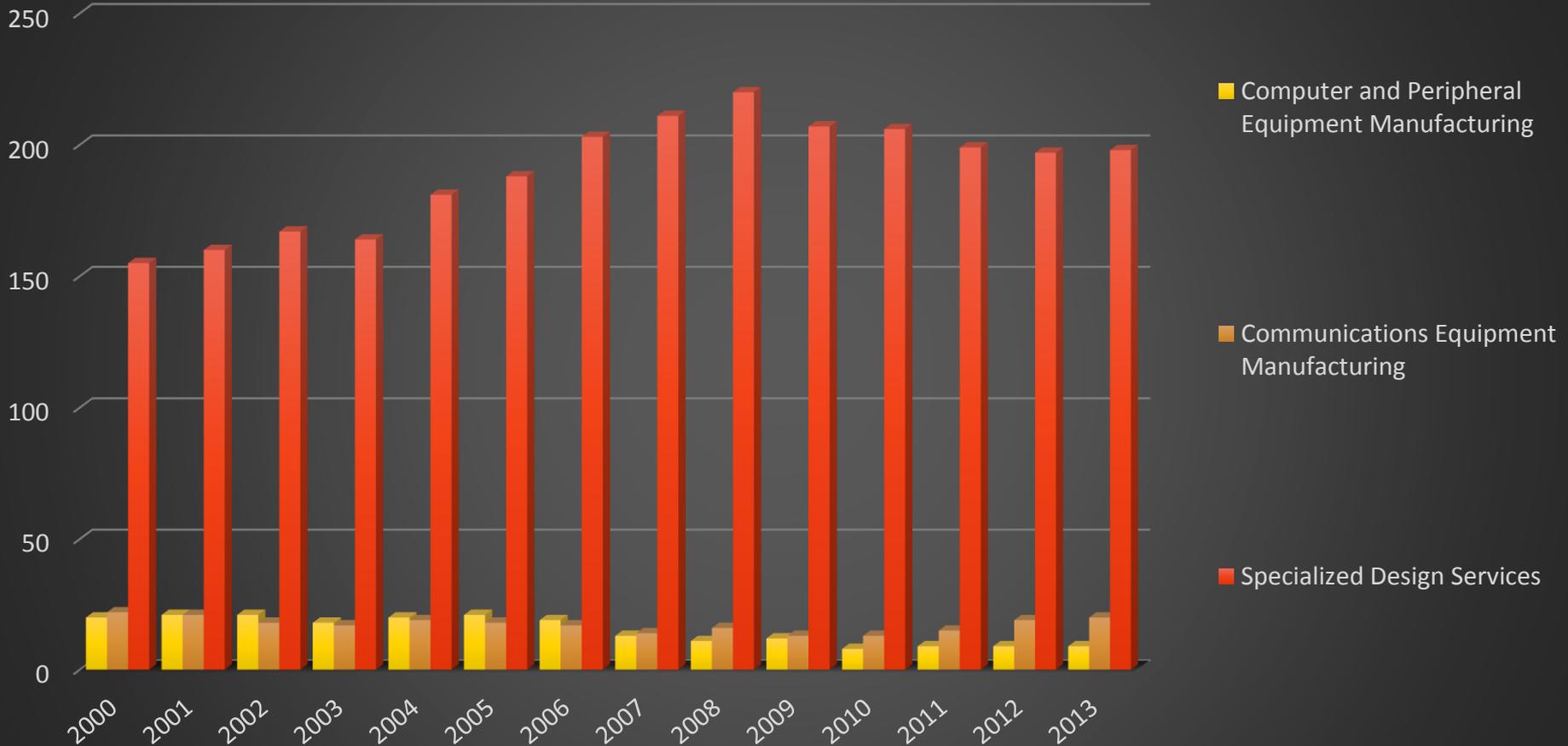


Management, Scientific, and Technical Consultation Services Firm Age Workforce Indicators

Firm Age	Employment	Monthly Earnings	Monthly Earnings New Hires	Turnover
0 – 1 Year	525	\$4,281	\$3,847	*
2 – 3 Years	483	\$5,254	\$4,025	11.1%
4 – 5 Years	458	\$5,316	\$3,981	11.1%
6 – 10 Years	1,452	\$5,479	\$4,276	10.3%
11+ Years	4,201	\$5,066	\$3,799	8.3%
All Firm Ages	7,120	\$5,120	\$3,945	10.0%

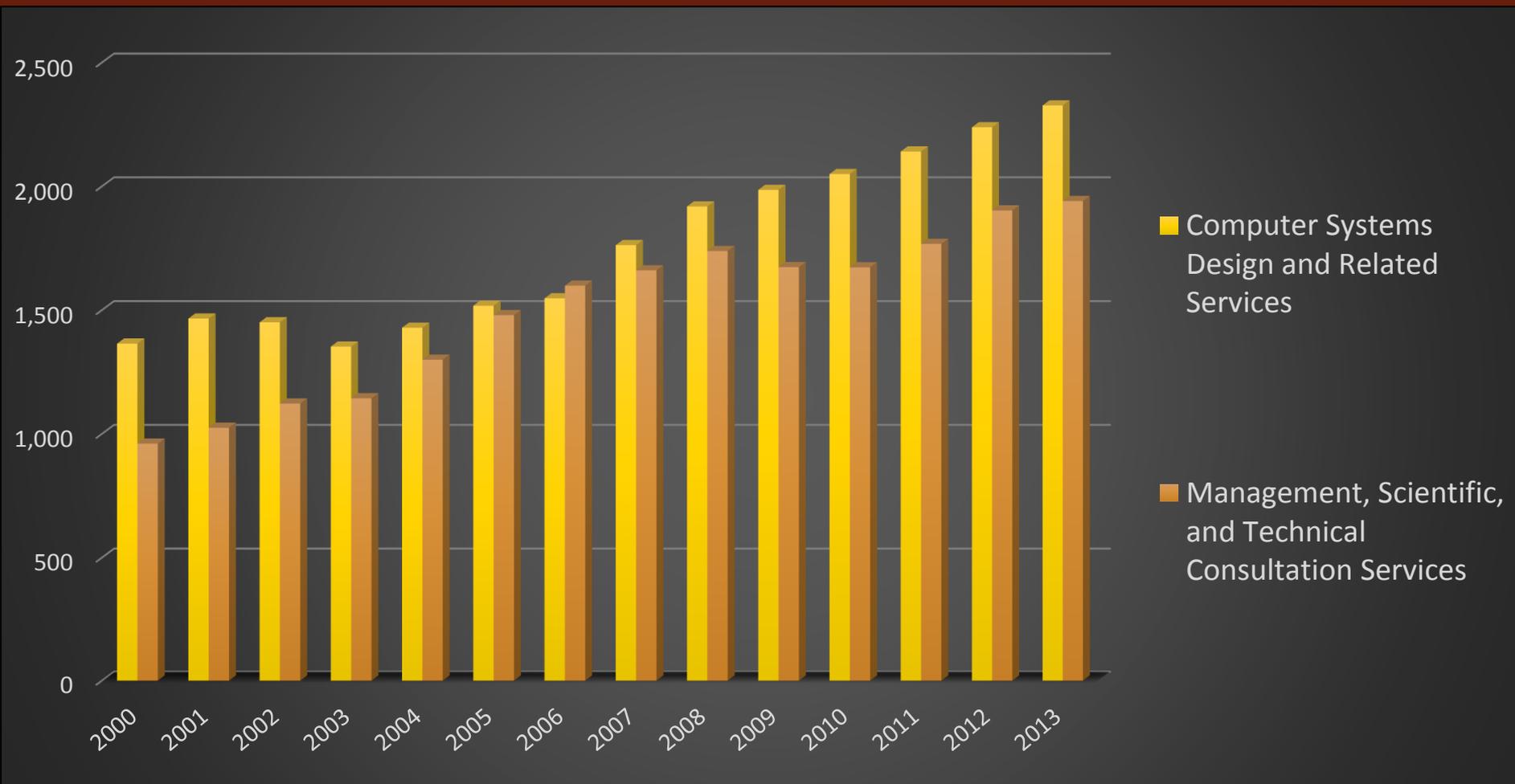


Development of Alabama's Information Technology Industry by Company



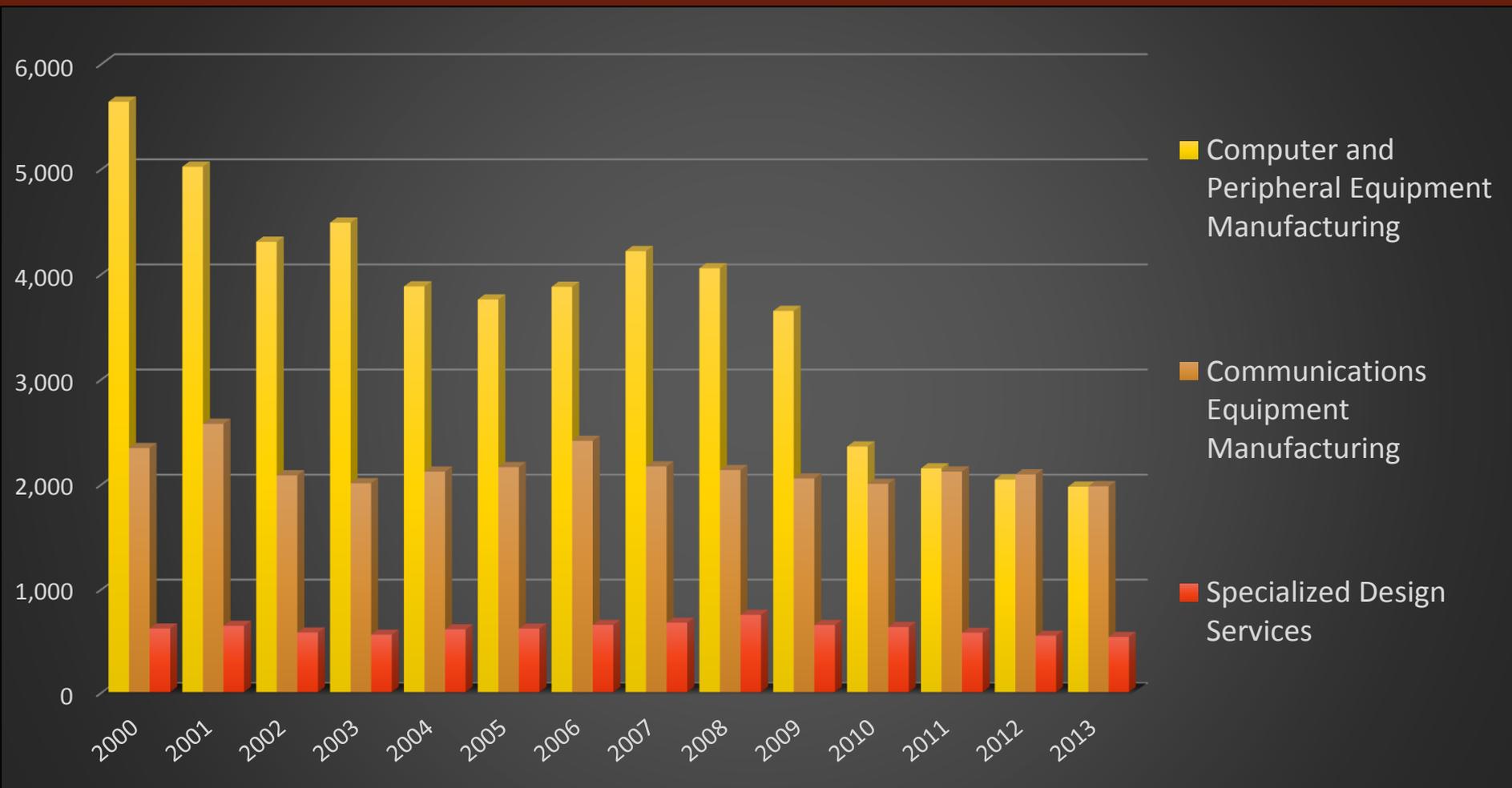


Development of Alabama's Information Technology Industry by Company



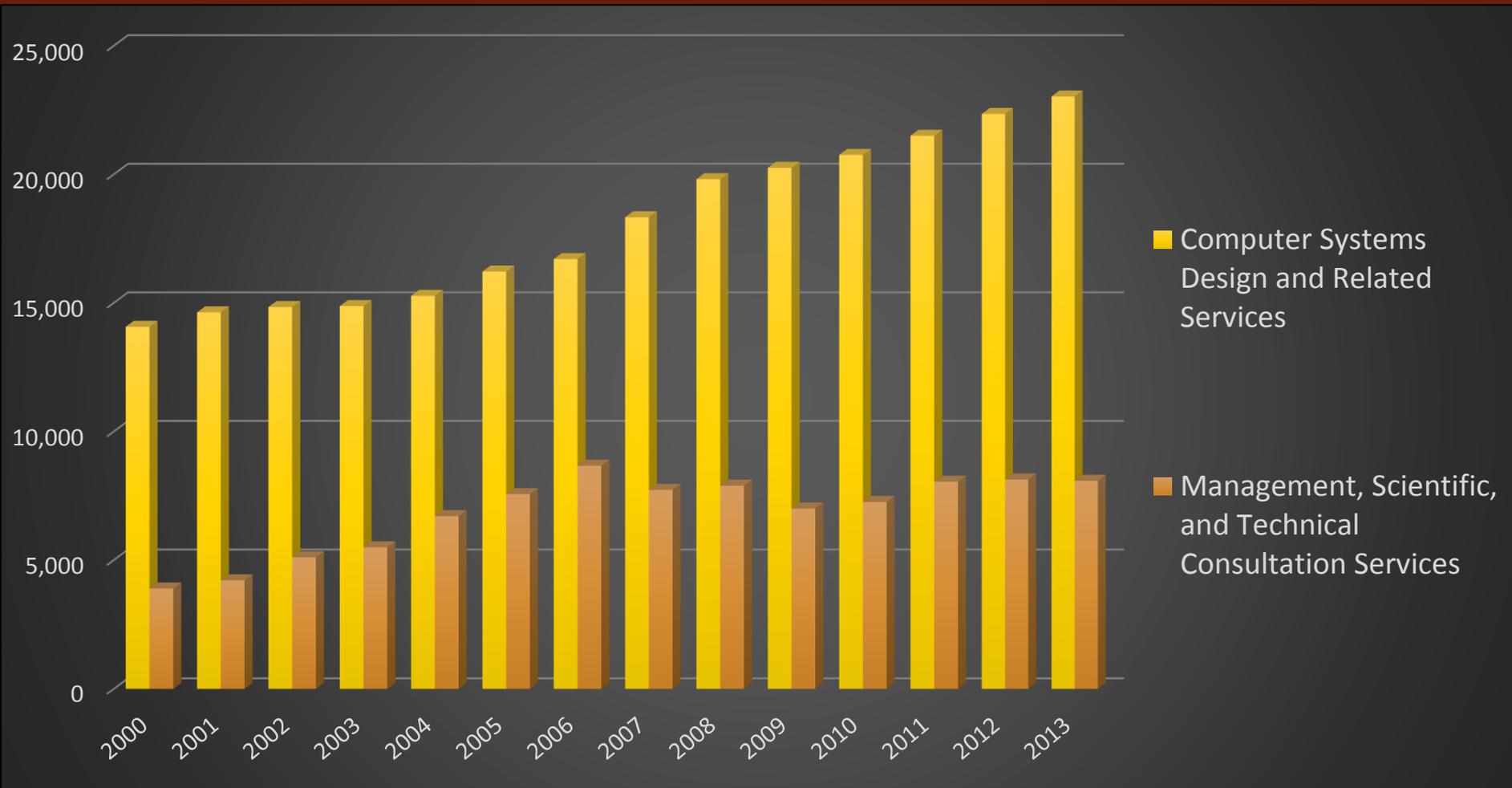


Development of Alabama's Information Technology Industry by Employment





Development of Alabama's Information Technology Industry by Employment





Top Occupations for Information Technology by Rounded Employment

Occupations	# of Jobs	% of Total
Computer User Support Specialists	2,440	7%
Computer Programmers	2,400	7%
Software Developers, Applications	2,160	6%
Management Analysts	2,030	6%
Computer Systems Analysts	1,830	5%
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1,380	4%
Software Developers, Systems Software	1,350	4%
General and Operations Managers	1,290	4%
Computer and Information Systems Managers	1,200	3%
Remaining Occupations	18,930	54%



Wage Information

Top 10 by Rounded Occupational Employment

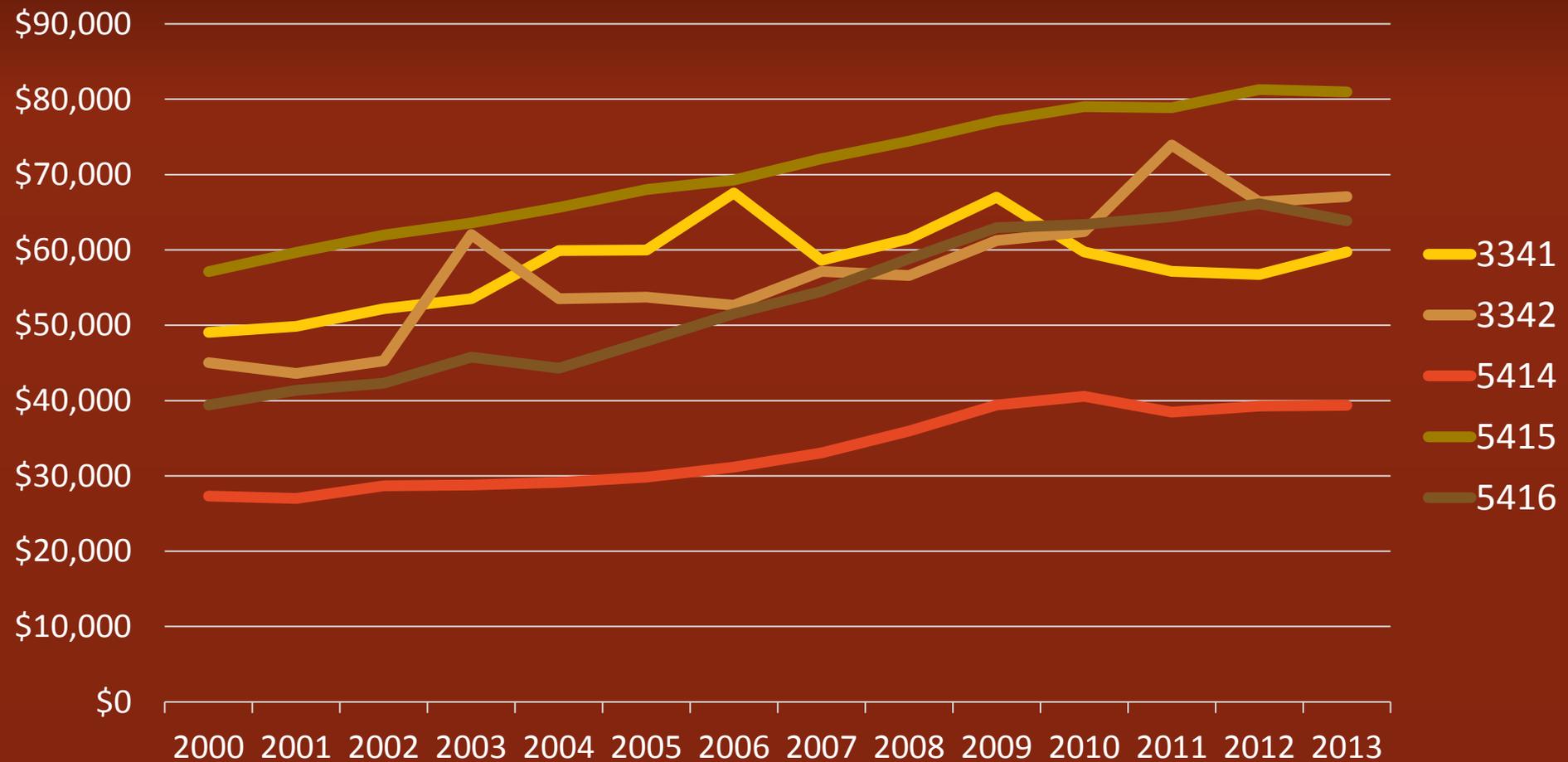
Occupation	Rounded Emp.	Mean Hourly	Mean Annual	Entry Hourly	Entry Annual	Experience Hourly	Experience Annual
Computer User Support Specialists	2,440	\$22.15	\$46,073	\$13.89	\$28,909	\$26.28	\$54,650
Computer Programmers	2,400	\$39.41	\$81,984	\$24.99	\$51,986	\$46.63	\$96,989
Software Developers, Applications	2,160	\$45.20	\$94,012	\$29.49	\$61,360	\$53.06	\$110,348
Management Analysts	2,030	\$45.23	\$94,087	\$26.24	\$54,585	\$54.73	\$113,828
Computer Systems Analysts	1,830	\$38.67	\$80,420	\$26.89	\$55,931	\$44.55	\$92,670
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1,380	\$16.14	\$33,584	\$11.91	\$24,772	\$18.27	\$37,990
Software Developers, Systems Software	1,350	\$47.72	\$99,239	\$31.88	\$66,294	\$55.63	\$115,717
General and Operations Managers	1,290	\$58.48	\$121,631	\$31.12	\$64,738	\$72.15	\$150,073
Computer and Information Systems Managers	1,200	\$57.91	\$120,462	\$36.71	\$76,362	\$68.52	\$142,511
Network and Computer Systems Administrators	940	\$33.73	\$70,158	\$22.76	\$47,334	\$39.22	\$81,571

Source: 2014 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

Total Wages by NAICS Code 2000-2013





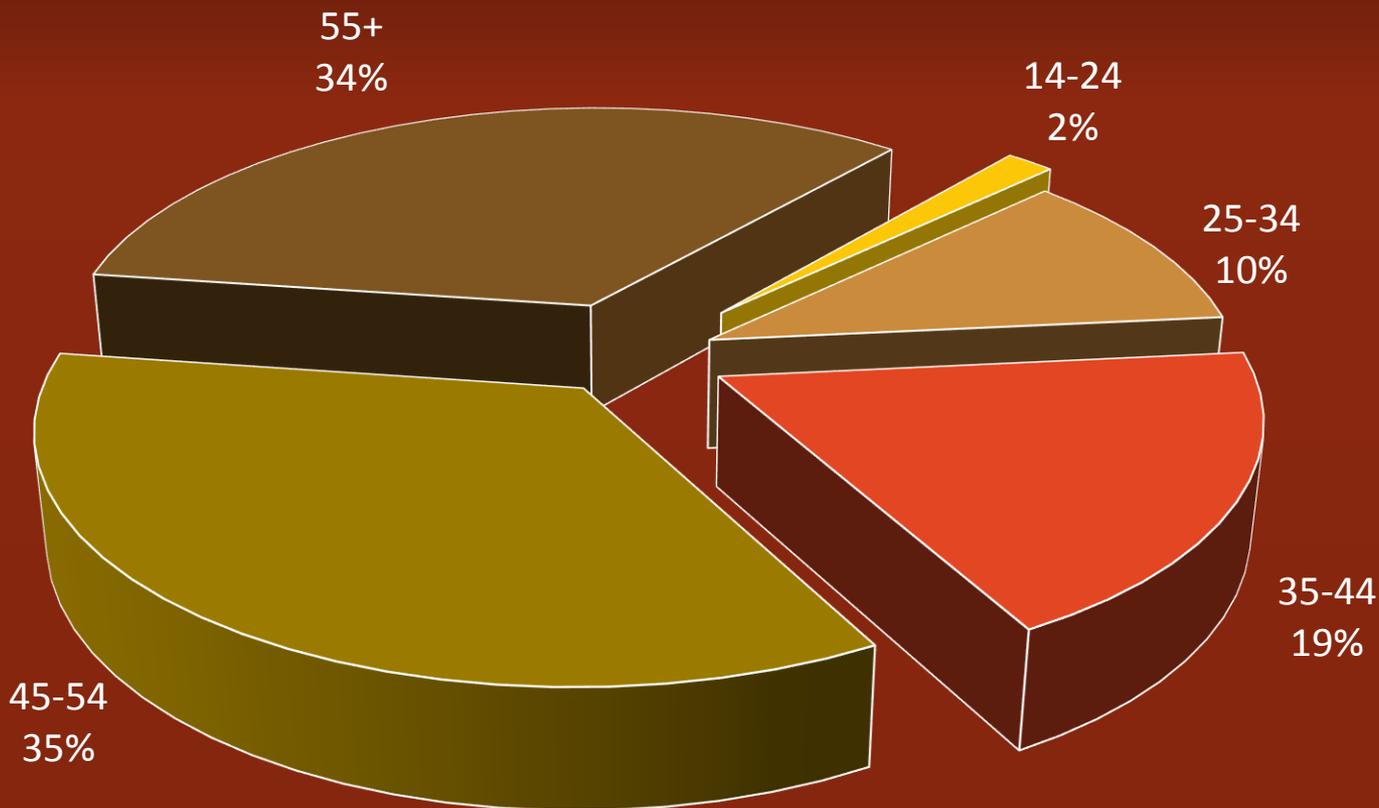
2013 Quarterly Workforce Indicators

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	2.6%	6	-26	\$4,508	**
3342	Communications Equipment Manufacturing	2.1%	3	-23	\$5,233	\$4,074
5414	Specialized Design Services	8.3%	38	17	\$3,246	\$2,734
5415	Computer Systems Design and Related Services	5.9%	781	154	\$6,698	\$5,382
5416	Management, Scientific, and Technical Consultation Services	10.0%	516	131	\$5,119	\$3,947



3341 Computer and Peripheral Equipment Manufacturing

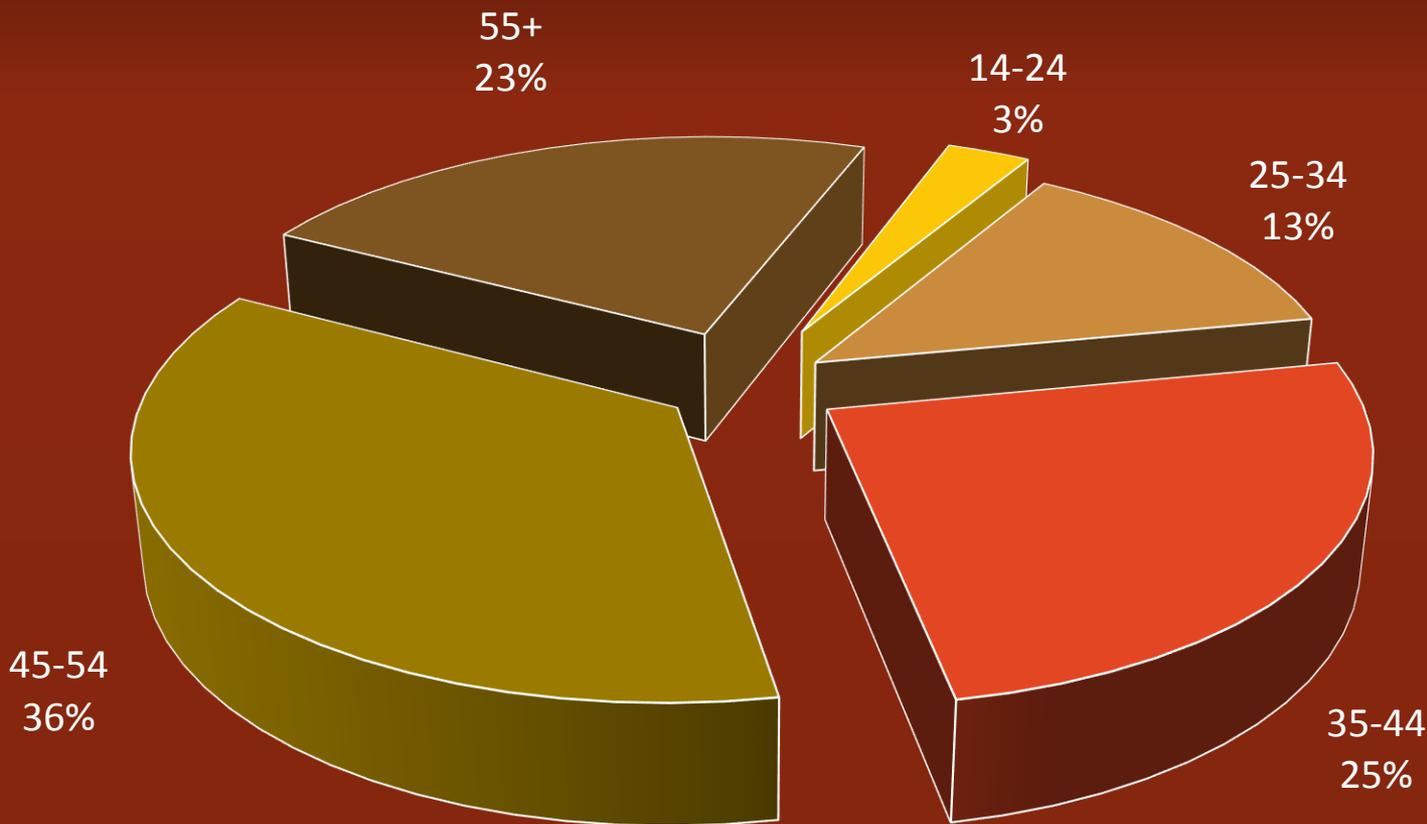
2013 Average Annual Employment by Age Group





3342 Communications Equipment Manufacturing

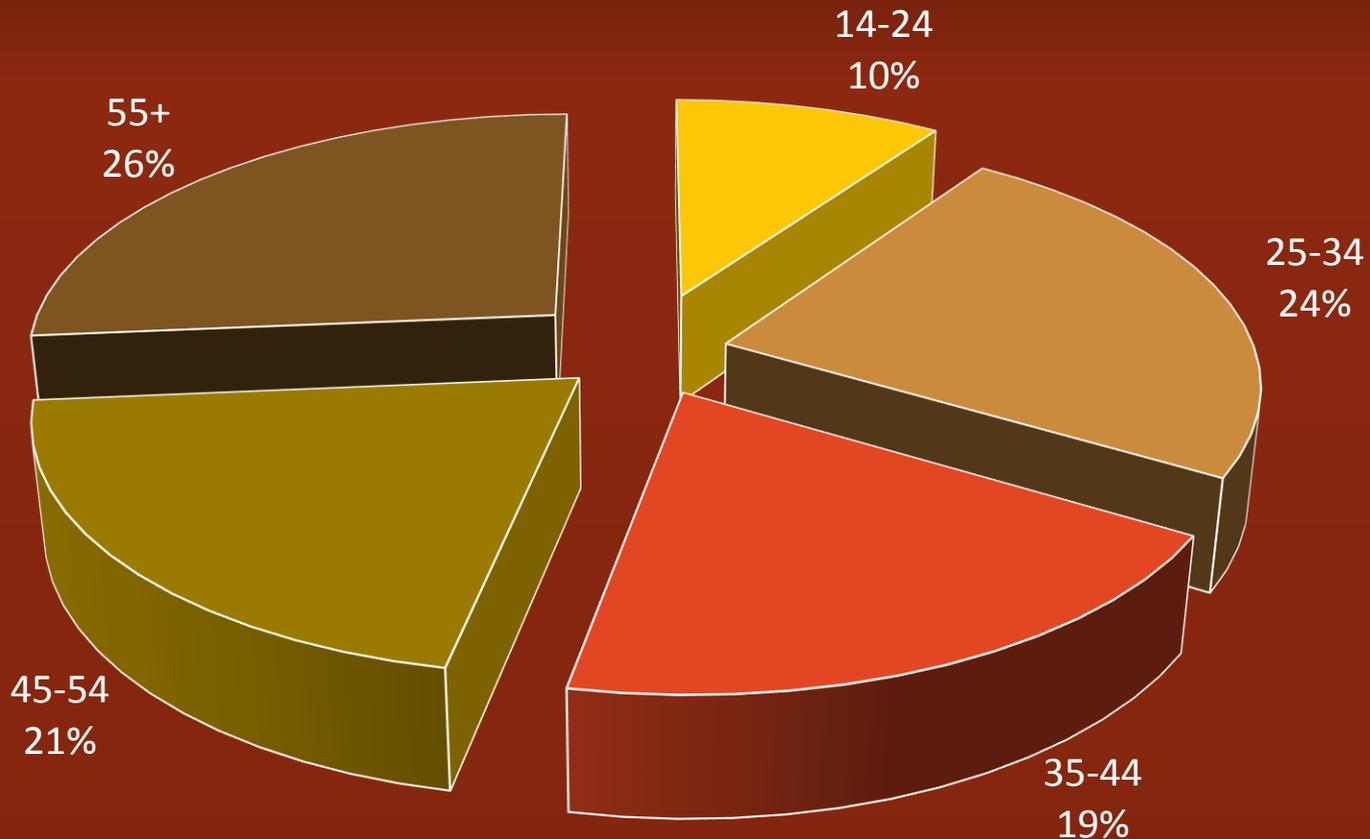
2013 Average Annual Employment by Age Group





5414 Specialized Design Services

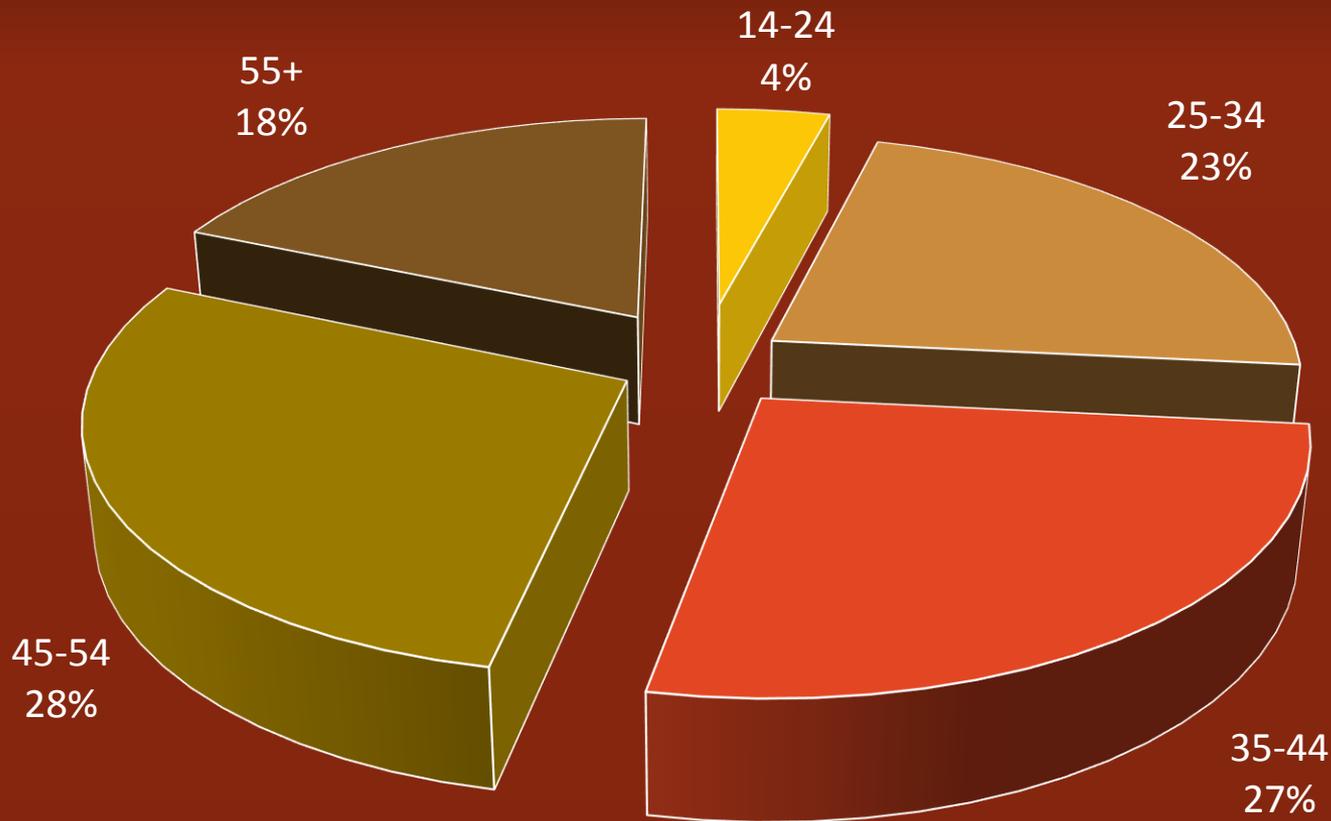
2013 Average Annual Employment by Age Group





5415 Computer Systems Design and Related Services

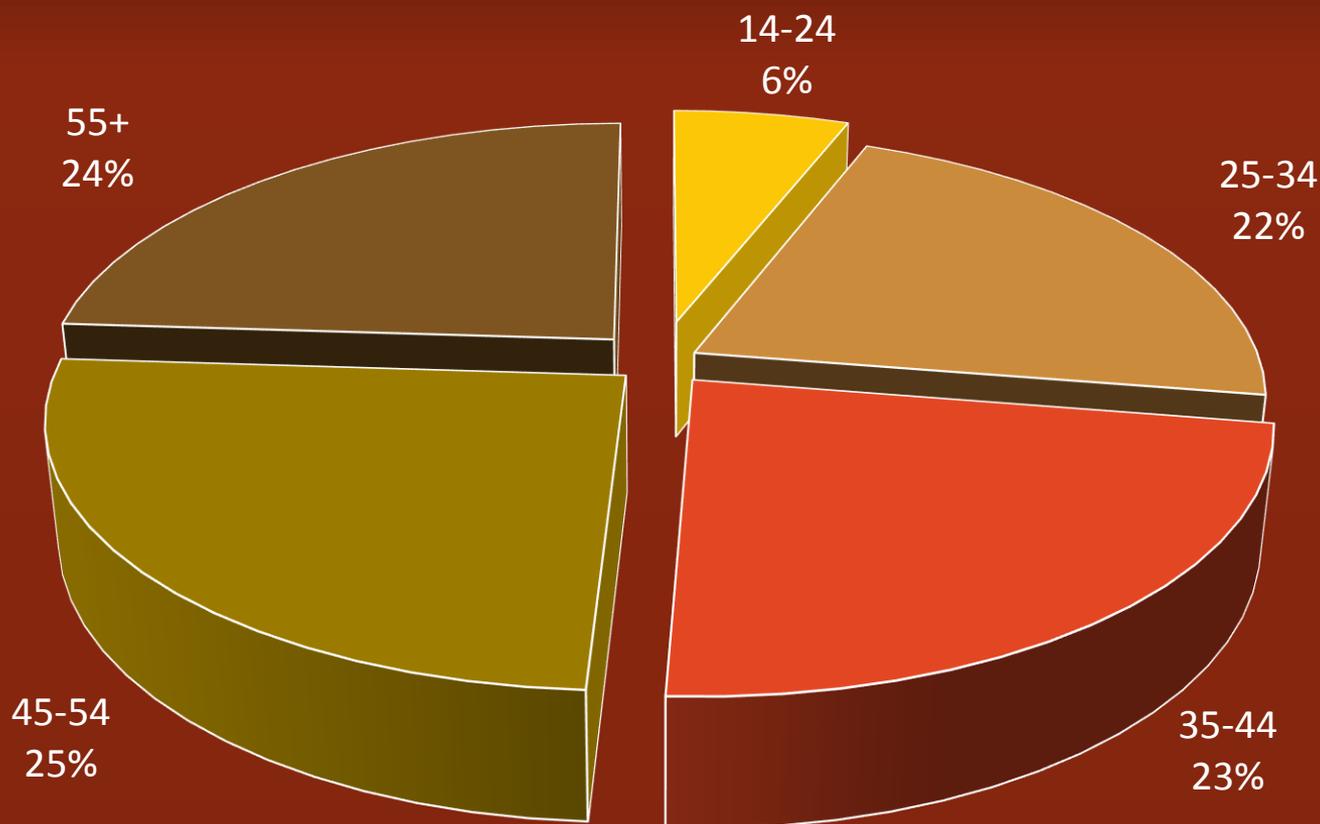
2013 Average Annual Employment by Age Group





5416 Management, Scientific, and Technical Consultation Services

2013 Average Annual Employment by Age Group





Projections Information

2012 – 2022 Industry Projections by NAICS Code

NAICS	Industry	2012	2022	Net Change	Percent Change	Average Annual Growth	U.S. Average Annual Growth	Location Quotient
3341	Computer and Peripheral Equipment Manufacturing	2,040	1,580	-460	-22.55	-2.52	-2.86	0.91
3342	Communications Equipment Manufacturing	2,090	1,660	-430	-20.57	-2.28	-3.26	1.35
5414	Specialized Design Services	550	660	110	20.00	1.84	1.84	0.33
5415	Computer Systems Design and Related Services	22,290	30,510	8,220	36.88	3.19	3.24	0.97
5416	Management, Scientific, and Technical Consultation Services	8,050	11,070	3,020	37.52	3.24	3.47	0.51



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