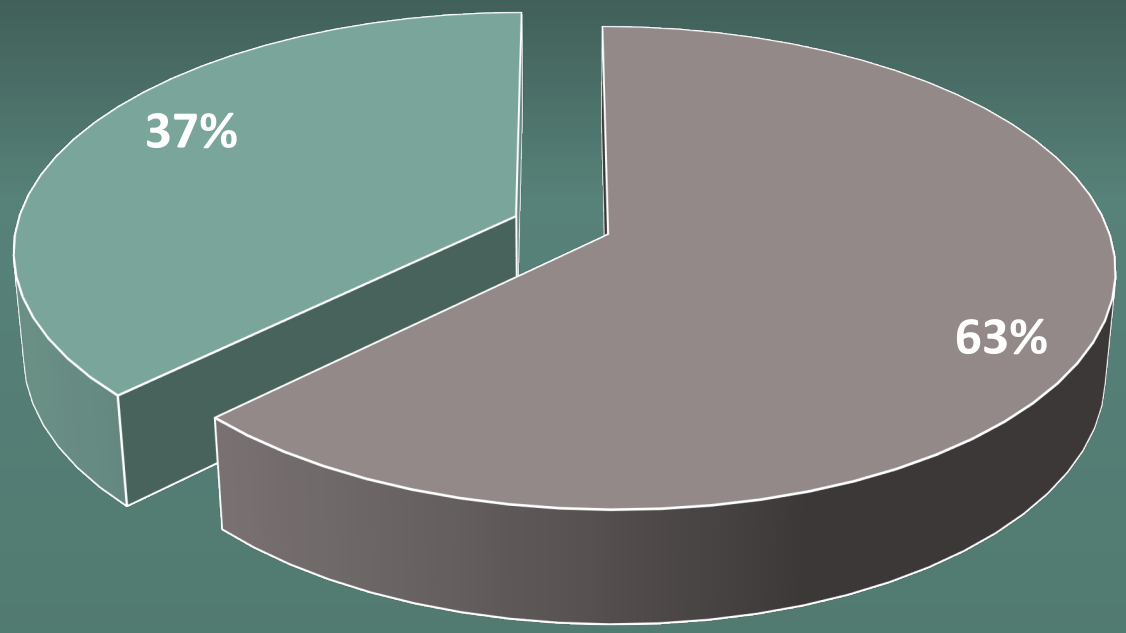
Accelerate Alabama Research and Development

Alabama Department of Labor
Labor Market Information Division

Alabama Research & Development Employment by Industry Sectors



- Management, Scientific, and Technical Consultation Services
- Scientific Research and Development Services

Source: Quarterly Census of Employment and Wages, 2016 Annual Average

Alabama Research & Development Industry Overview

Sector	# of Companies	# Employed
Management, Scientific, and Technical Consultation Services	2,332	10,636
Scientific Research and Development Services	346	6,332

Source: Quarterly Census of Employment and Wages, 2016 Annual Average

Management, Scientific, and Technical Consultation Services

5416 Management, Scientific, and Technical Consultation Services

This industry group 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.

2,332 companies; 10,636 employed; 63% of Research & Development Industry Employment

# of Employees	% of Companies
1-49	98%
50-99	1%
100-249	0%
250+	0%

Top 5 Job Categories:

- 14% Management Analysts
- 7% Secretaries and Administrative Assistants, Except Legal, Medical, and Executive
- 6% General and Operations Managers
- 4% Inspectors, Testers, Sorters, Samplers, and Weighers
- 3% Bookkeeping, Accounting, and Auditing Clerks

Source: Quarterly Census of Employment and Wages, 2016 annual average. *Note: Numbers may not equal 100% due to rounding.*

Source: 2017 Release of the Occupational Employment Statistics (OES) Report in cooperation with the Bureau of Labor Statistics.

Management, Scientific, and Technical Consultation Services

Firm Age Workforce Indicators

Firm Age	Employment	Monthly Earnings	Monthly Earnings New Hires	Turnover
0 – 1 Year	431	$4,252	$3,403	19.6%
2 – 3 Years	608	$4,898	$3,348	13.6%
4 – 5 Years	787	$5,112	$3,731	11.4%
6 – 10 Years	988	$5,136	$3,787	10.5%
11+ Years	6,334	$5,324	$4,063	9.4%
All Firm Ages	9,149	$5,208	$3,875	10.4%

Source: Local Employment Household Dynamics Partnership between Alabama Department of Labor, Labor Market Information Division, and the U.S. Census Bureau, LED Extraction Tool; 2016 annual average data shown. **Data not available or marked confidential. Note: Data may not add due to rounding.*

Scientific Research and Development Services

5417 Scientific Research and Development Services

This industry group comprises establishments engaged in conducting original investigation undertaken on a systematic basis to gain new knowledge (research) and/or the application of research findings or other scientific knowledge for the creation of new or significantly improved products or processes (experimental development). The industries within this industry group are defined on the basis of the domain of research; that is, on the scientific expertise of the establishment.

346 companies; 6,332 employed; 37% of Research & Development Industry Employment

# of Employees	% of Companies
1-49	94%
50-99	3%
100-249	2%
250+	1%

Source: Quarterly Census of Employment and Wages, 2016 annual average. *Note: Numbers may not equal 100% due to rounding.*

Top 5 Job Categories:

- 10% Software Developers, Systems Software
- 6% General and Operations Managers
- 5% Software Developers, Applications
- 3% Operations Research Analysts
- 3% Secretaries and Administrative Assistants, Except Legal, Medical, and Executive

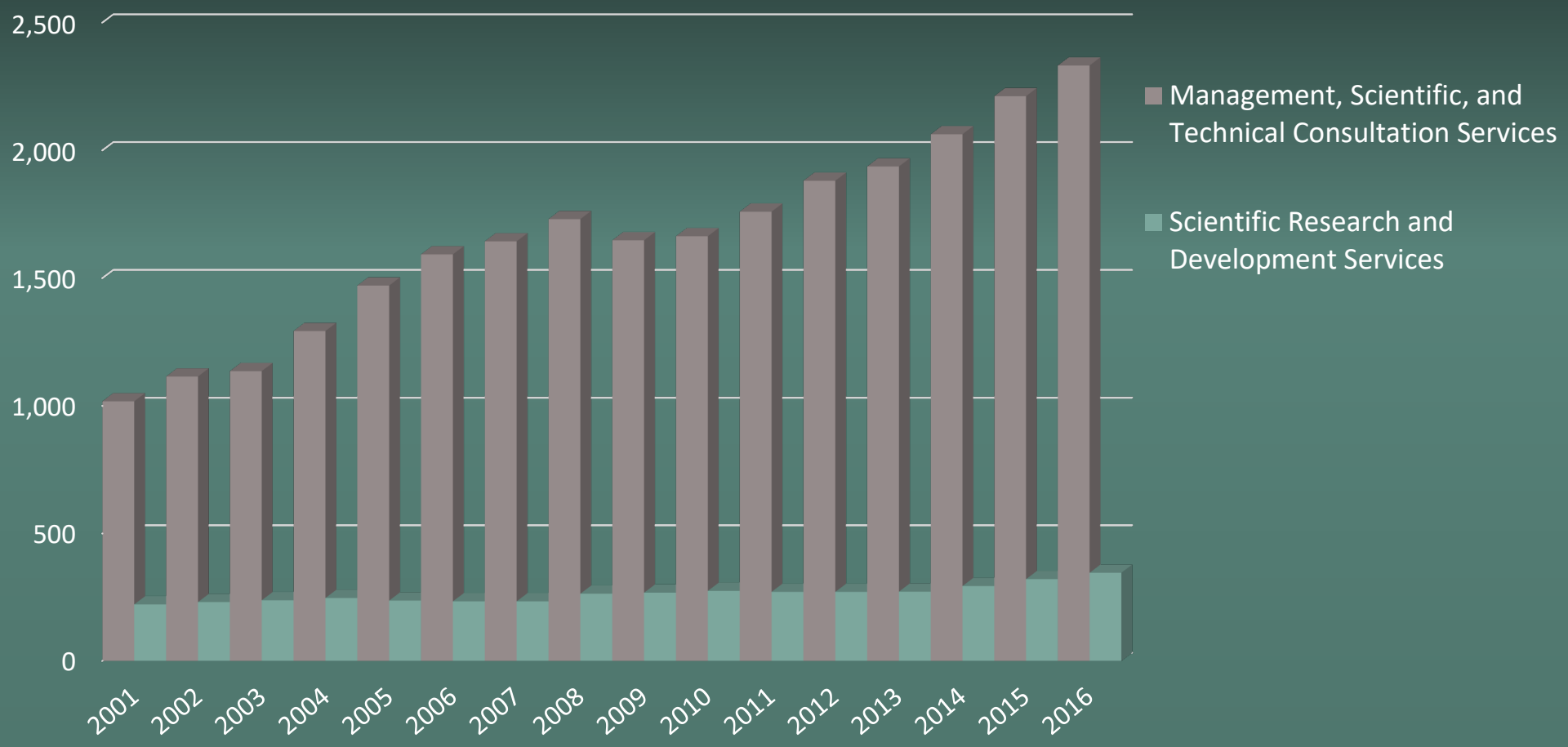
Source: 2017 Release of the Occupational Employment Statistics (OES) Report in cooperation with the Bureau of Labor Statistics.

Scientific Research and Development Services
Firm Age Workforce Indicators

Firm Age	Employment	Monthly Earnings	Monthly Earnings New Hires	Turnover
0 – 1 Year	56	$4,895	$4,119	23.3%
2 – 3 Years	70	$5,752	$4,871	10.4%
4 – 5 Years	87	$5,563	$4,971	14.6%
6 – 10 Years	622	$5,925	$4,531	14.1%
11+ Years	5,006	$7,541	$5,862	5.0%
All Firm Ages	5,841	$7,315	$5,562	6.4%

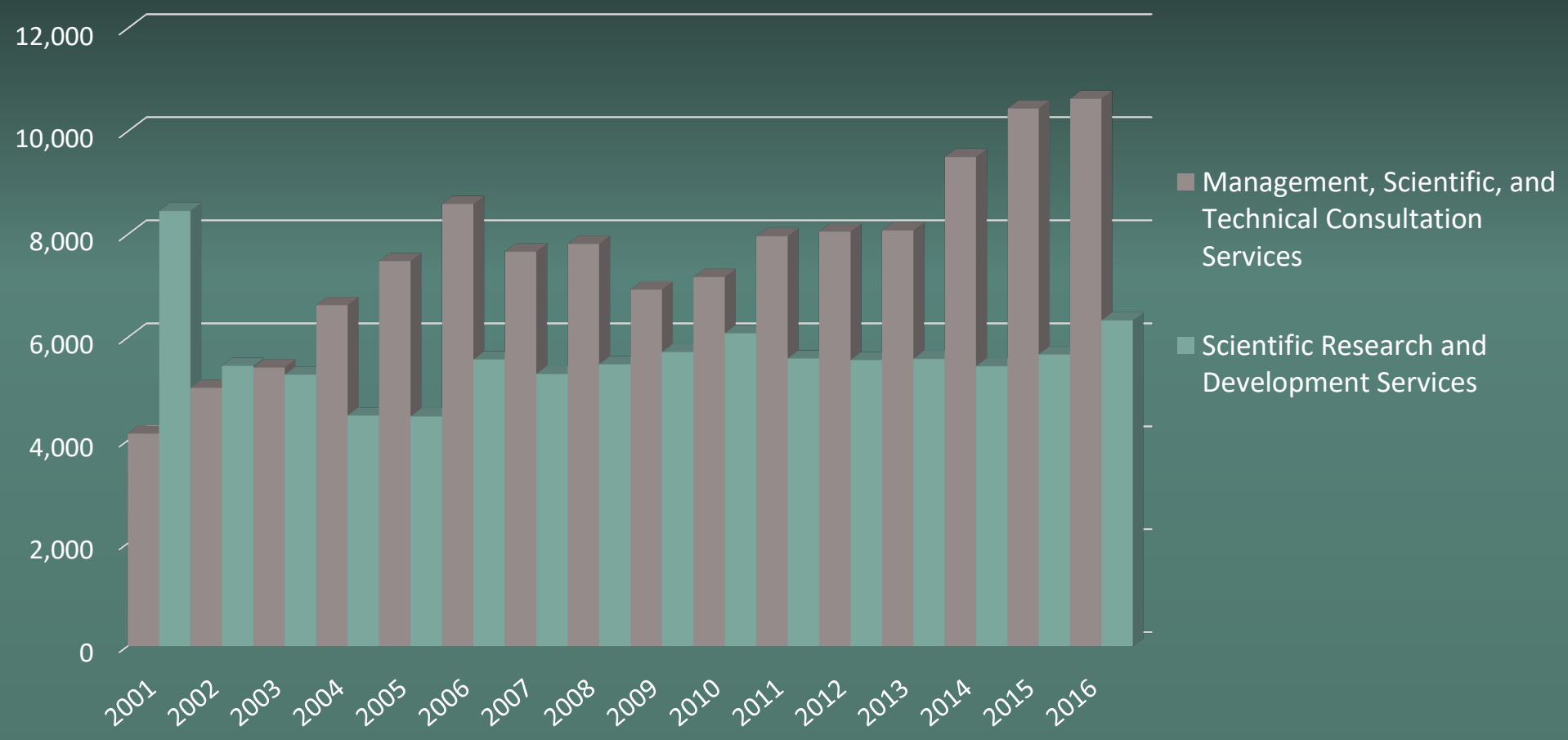
Source: Local Employment Household Dynamics Partnership between Alabama Department of Labor, Labor Market Information Division, and the U.S. Census Bureau, LED Extraction Tool; 2016 annual average data shown. **Data not available or marked confidential. Note: Data may not add due to rounding.*

Development of Alabama's Research & Development Industry by Company



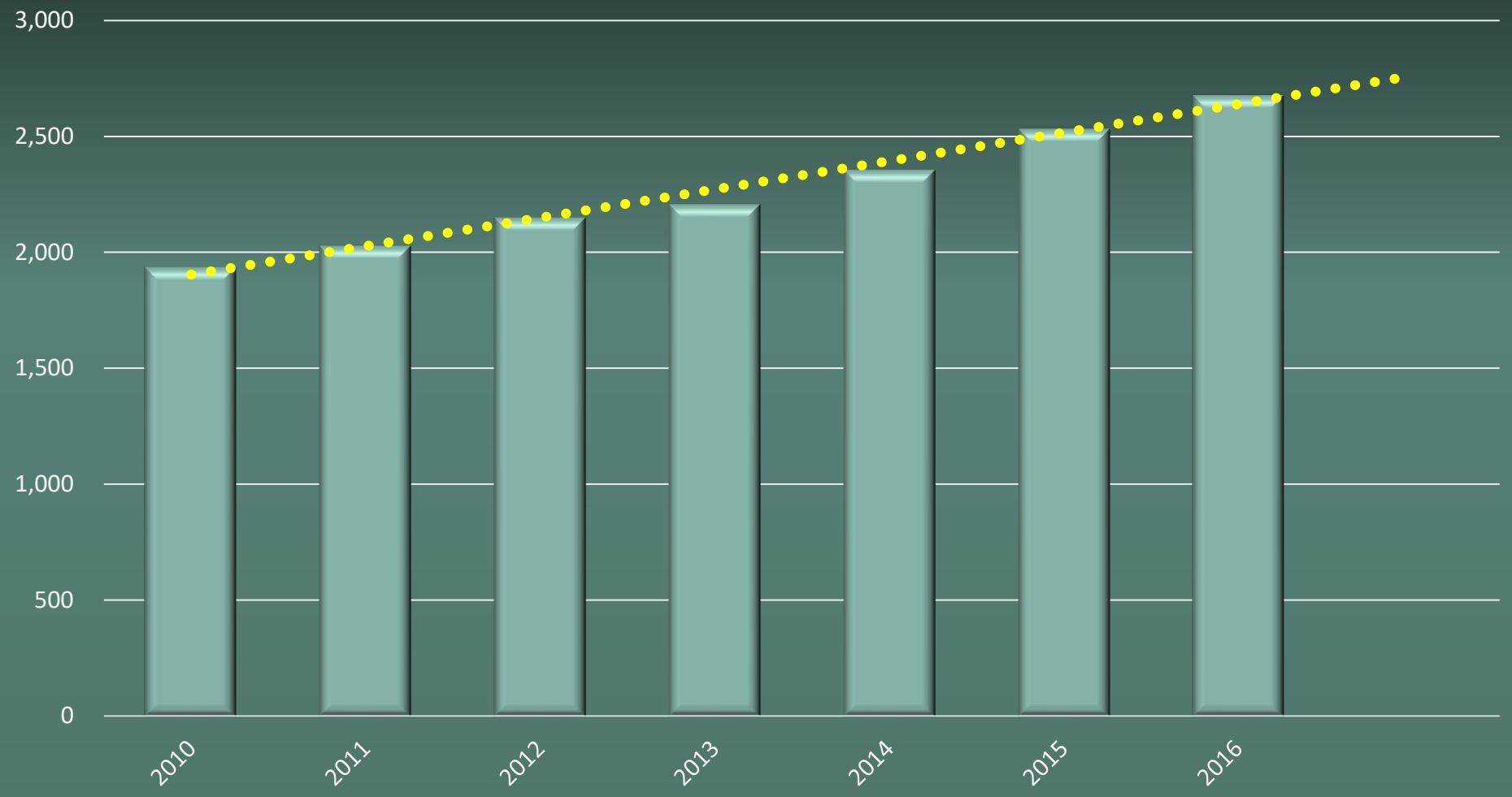
Source: Alabama Department of Labor, Quarterly Census of Employment and Wages.

Development of Alabama's Research & Development Industry by Employment



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

Cluster Change Since 2010
Total Establishment



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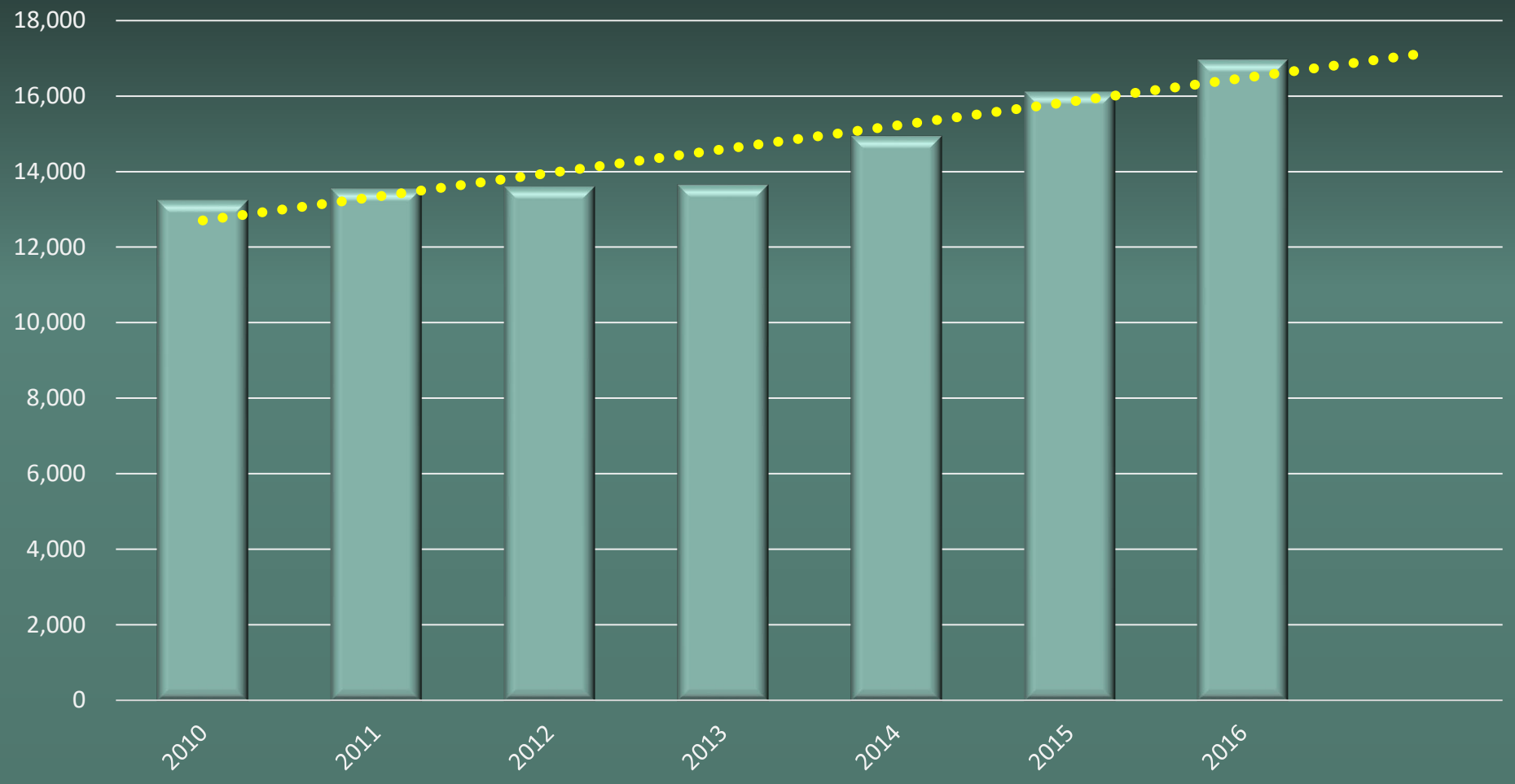
Cluster Change Since 2010
Total Employment



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

Top Occupations for Research & Development by Rounded Employment

Occupations	# of Jobs	% of Total
Management Analysts	1610	9%
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	970	6%
General and Operations Managers	890	5%
Software Developers, Systems Software	690	4%
Logisticians	450	3%
Inspectors, Testers, Sorters, Samplers, and Weighers	410	2%
Software Developers, Applications	400	2%
Bookkeeping, Accounting, and Auditing Clerks	380	2%
Electrical Engineers	370	2%
Remaining Occupations	11,460	65%

Source: 2018 release of the Occupational Employment Statistics (OES) Report in cooperation with the Bureau of Labor Statistics. 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

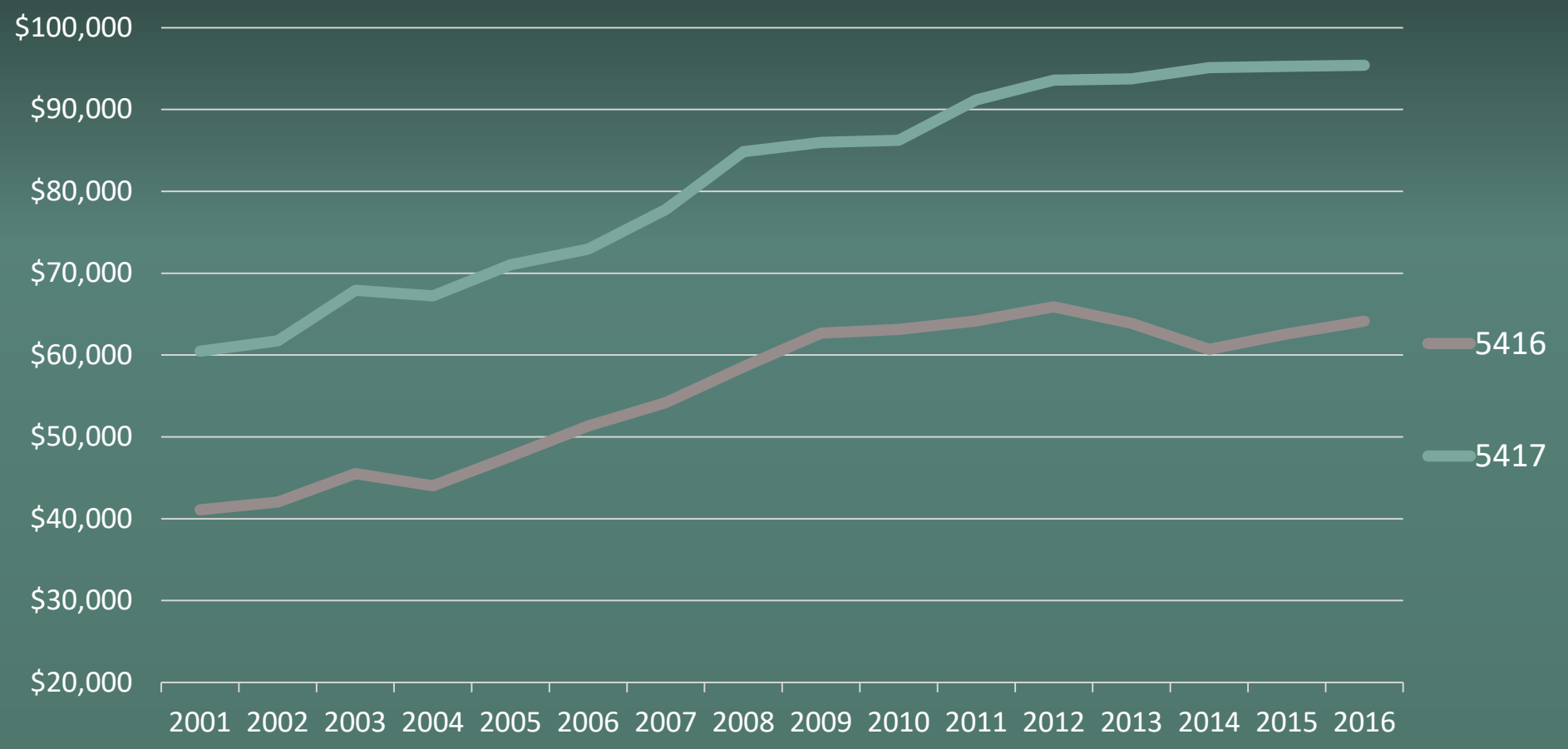
Occupation	Rounded Emp.	Mean Hourly	Mean Annual	Entry Hourly	Entry Annual	Experience Hourly	Experience Annual
Management Analysts	1610	$44.94	$93,472	$23.48	$48,843	$55.67	$115,786
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	970	$16.72	$34,785	$12.00	$24,950	$19.09	$39,702
General and Operations Managers	890	$58.04	$120,726	$29.20	$60,731	$72.46	$150,723
Software Developers, Systems Software	690	$49.70	$103,376	$33.55	$69,779	$57.78	$120,175
Logisticians	450	$42.52	$88,446	$28.79	$59,877	$49.39	$102,730
Inspectors, Testers, Sorters, Samplers, and Weighers	410	$16.04	$33,353	$10.16	$21,127	$18.97	$39,466
Software Developers, Applications	400	$44.40	$92,359	$28.17	$58,598	$52.52	$109,239
Bookkeeping, Accounting, and Auditing Clerks	380	$17.92	$37,275	$12.18	$25,326	$20.79	$43,249
Electrical Engineers	370	$47.04	$97,844	$31.75	$66,042	$54.68	$113,745
Operations Research Analysts	360	$45.02	$93,633	$26.52	$55,168	$54.26	$112,866

Source: 2017 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 2001-2016



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

2016 Quarterly Workforce Indicators

NAICS	Industry	Average Turnover Rate	Average Job Gains	Average Net Job Flows	Average Monthly Earnings	Average Monthly Earnings – New Hires
5416	Management, Scientific, and Technical Consultation Services	10.4%	109	569	$5,208	$3,875
5417	Scientific Research and Development Services	6.4%	132	251	$7,315	$5,562

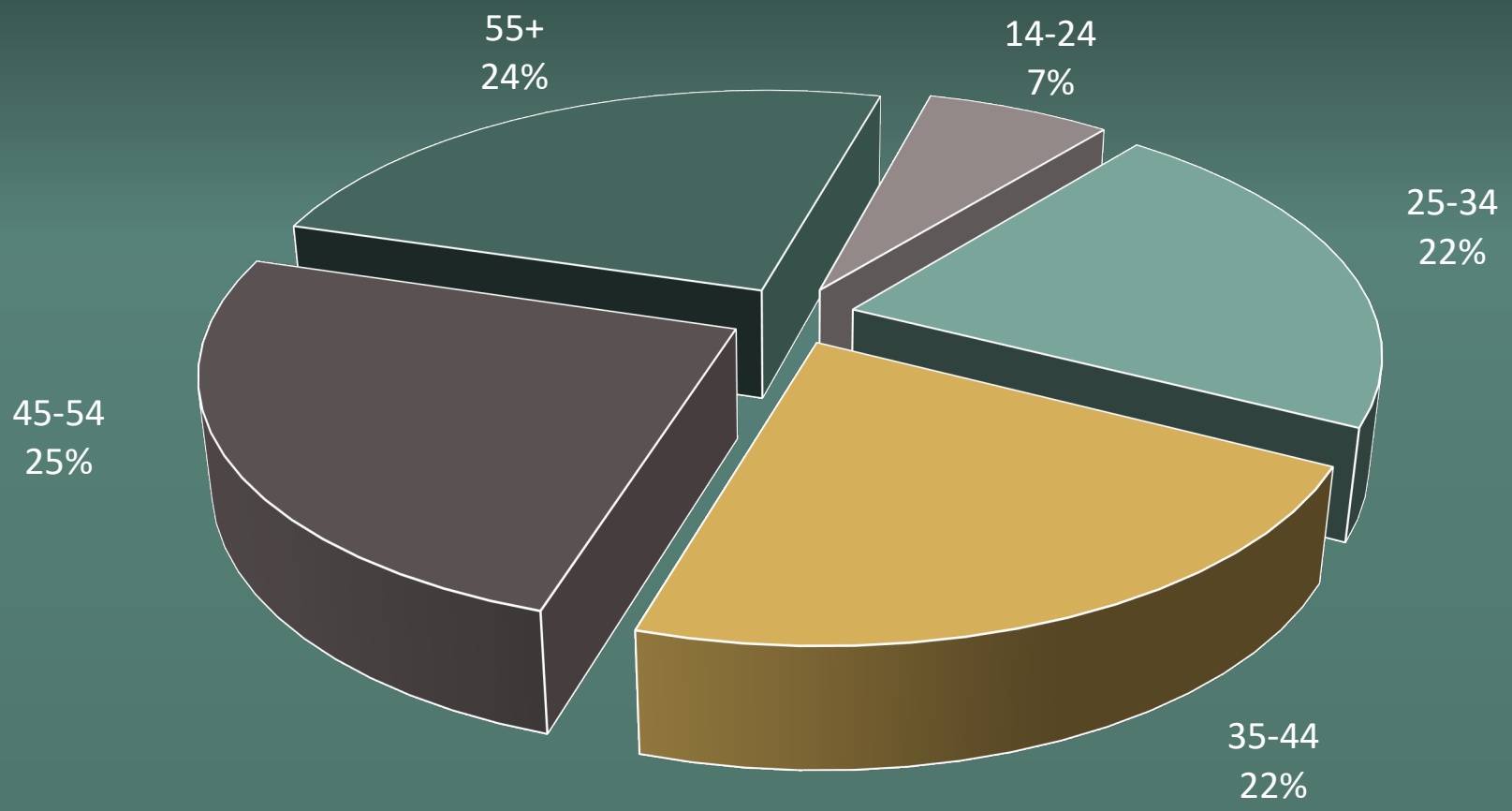
Source: Partnership between the Alabama Department of Labor, Labor Market Information Division and the U.S. Census Bureau, Longitudinal Employment-Household Dynamics (LEHD) Program, Quarterly Workforce Indicators (QWI) data.

Alabama Department of Labor

Labor Market Information
James Henry, Division Director

5416 Management, Scientific, and Technical Consultation Services

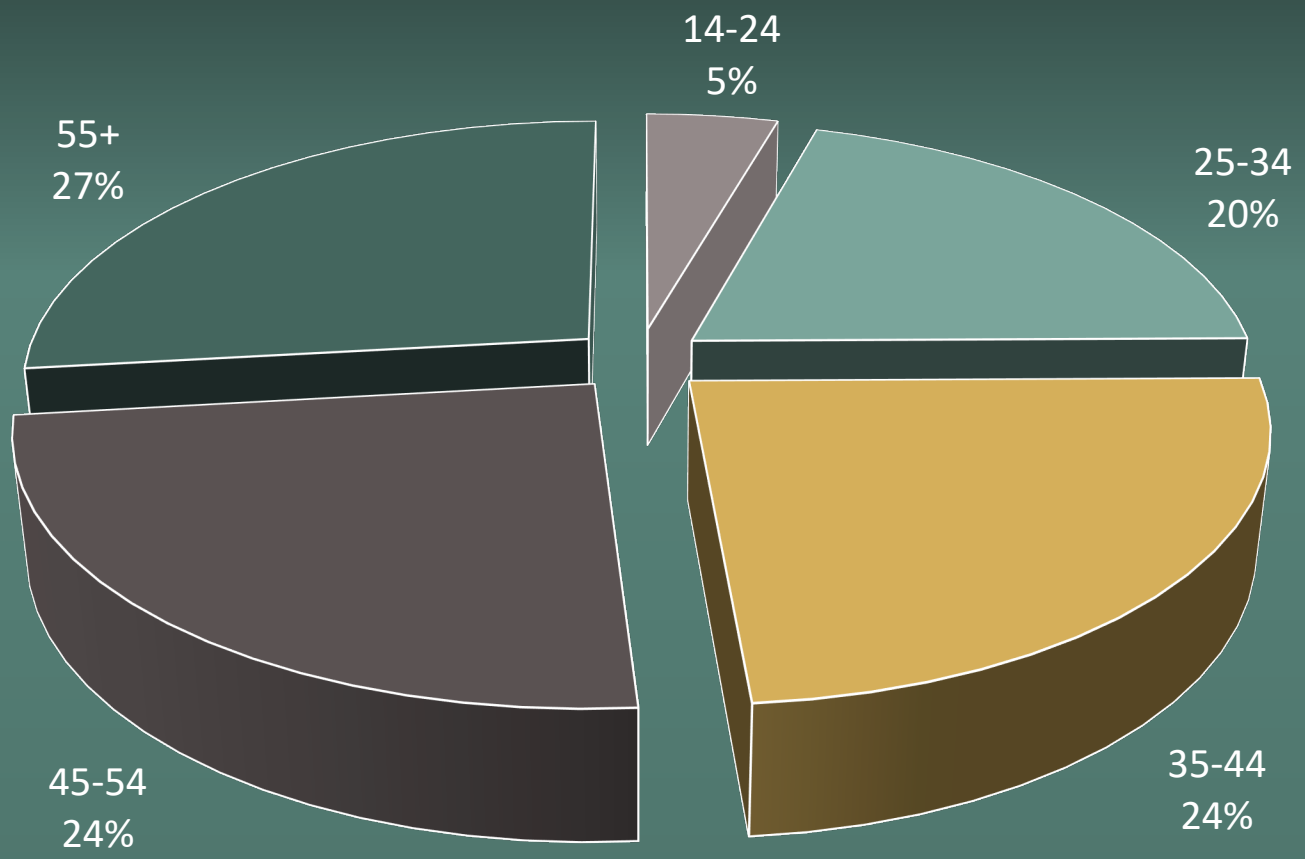
2017 Average Annual Employment by Age Group



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.

5417 Scientific Research and Development Services

2017 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
2016 – 2026 Industry Projections by NAICS Code

NAICS	Industry	2016	2026	Net Change	Percent Change	Average Annual Growth	U.S. Average Annual Growth	Location Quotient
5416	Management, Scientific, and Technical Consultation Services	10,640	12,980	2,340	21.99	2.01	2.11	0.53
5417	Scientific Research and Development Services	6,330	7,500	1,170	18.48	1.71	1.24	0.63

Source: 2016-2026 Industry Projections, produced by the Labor Market Information Division in cooperation with the Projections Managing Partnership (PMP).

Major Research & Development Regions

Research and Development Industry Maps:

Statewide
Region 1
Region 2
Region 3
Region 4
Region 5
Region 6
Region 7